



ANALYSIS REPORT BBM20-03991

To GORDON RICHARDS
GORDON RICHARDS
6410 HOLLY PARK DR
DELTA V4K 4W6
BC
CANADA

Order Number	PO:	Date Received	12-Aug-2020
Project	Mega	Date Analysed	12-Aug-2020 - 21-Aug-2020
Submission Number	*BBY* MEGA/ 17 (MMI)	Date Completed	22-Aug-2020
Number of Samples	17	SGS Order Number	BBM20-03991

Methods Summary

<u>Number of Sample</u>	<u>Method Code</u>	<u>Description</u>
17	G_LOG	Sample Registration Fee
17	G_WGH_KG	Weight of samples received
17	GE_MMIM	Mobile Metal ION standard package,ICP-MS

Authorised Signatory

John Chiang
Laboratory Operations
Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



Order Number PO:
 Project Mega
 Submission Number *BBY* MEGA/ 17 (MMI)
 Number of Samples 17

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Element	Wtkg	Ag	Al	As	Au	Ba
Method	G_WGH_KG	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.01	0.5	1	10	0.1	10
Upper Limit	--	--	--	--	--	--
Unit	kg	ppb	ppm m / m	ppb	ppb	ppb
W1	0.17	47.8	27	<10	0.5	13600
W2	0.21	9.4	254	70	0.2	9080
W3	0.15	20.4	98	50	0.5	14500
W4	0.17	50.7	12	<10	0.3	2180
W5	0.22	43.8	19	120	15.0	3070
W6	0.21	33.3	27	150	17.3	1760
W7	0.18	37.2	17	90	68.1	2160
W8	0.32	15.3	33	40	0.3	1160
W9	0.31	69.5	18	10	1.7	13700
W10	0.15	81.6	144	50	0.9	13000
W11	0.32	35.8	192	100	1.1	8440
W12	0.23	25.3	148	440	3.5	6600
W13	0.13	10.1	145	10	1.6	7870
W14	0.23	37.0	86	40	0.4	7430
W15	0.32	18.9	97	130	0.3	8890
W17	0.18	56.8	153	10	1.3	8940
W18	0.18	33.8	282	50	0.9	5460
*Rep W8	-	13.8	31	40	0.2	1160
*Rep W18	-	35.3	278	40	0.9	5400
*Std AMIS0169	-	7.0	51	10	0.3	800
*Blk BLANK	-	<0.5	<1	<10	<0.1	<10

Element	Bi	Ca	Cd	Ce	Co	Cr
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.5	2	1	2	1	100
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
W1	<0.5	554	26	272	54	<100
W2	2.8	59	11	410	92	200

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Element	Bi	Ca	Cd	Ce	Co	Cr
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.5	2	1	2	1	100
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
W3	1.4	324	4	345	62	100
W4	<0.5	423	7	76	15	<100
W5	<0.5	476	6	65	39	<100
W6	<0.5	423	2	119	19	<100
W7	<0.5	515	3	56	11	<100
W8	<0.5	382	10	43	19	<100
W9	<0.5	342	2	15	6	<100
W10	<0.5	290	18	360	59	100
W11	1.1	112	13	1050	142	100
W12	3.7	91	8	300	86	100
W13	<0.5	221	29	210	207	<100
W14	0.7	228	9	361	149	<100
W15	2.8	161	11	346	115	100
W17	<0.5	275	8	298	156	<100
W18	0.8	18	42	312	73	<100
*Rep W8	<0.5	380	10	42	19	<100
*Rep W18	0.8	17	45	296	78	<100
*Std AMIS0169	<0.5	31	1	580	72	<100
*Blk BLANK	<0.5	<2	<1	<2	<1	<100

Element	Cs	Cu	Dy	Er	Eu	Fe
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.2	10	0.5	0.2	0.2	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppm m / m
W1	0.5	2380	38.3	19.6	12.5	27
W2	3.5	450	42.4	17.5	13.1	231
W3	1.4	690	49.9	26.1	15.5	116
W4	1.0	1160	30.7	22.1	8.2	34

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Element Method Lower Limit Upper Limit Unit	Cs GE_MMIM 0.2 -- ppb	Cu GE_MMIM 10 -- ppb	Dy GE_MMIM 0.5 -- ppb	Er GE_MMIM 0.2 -- ppb	Eu GE_MMIM 0.2 -- ppb	Fe GE_MMIM 1 -- ppm m / m
W5	0.5	1140	15.0	9.0	4.0	21
W6	2.1	580	27.8	15.9	6.5	47
W7	0.6	900	14.6	8.4	3.7	27
W8	0.7	490	7.8	4.5	2.0	53
W9	1.2	270	7.0	3.6	3.1	13
W10	4.1	290	83.3	45.5	21.7	119
W11	5.1	730	114	58.4	30.6	121
W12	8.2	370	44.6	25.1	11.2	267
W13	1.2	800	179	109	21.4	117
W14	2.8	550	53.4	30.6	14.8	114
W15	7.2	700	45.7	26.2	11.6	174
W17	0.7	860	169	103	27.8	182
W18	3.4	430	69.0	34.4	13.8	195
*Rep W8	0.6	480	7.2	4.2	1.9	55
*Rep W18	2.8	440	68.3	35.2	13.5	181
*Std AMIS0169	7.0	2950	22.3	10.0	8.5	35
*Blk BLANK	<0.2	<10	<0.5	<0.2	<0.2	<1

Element Method Lower Limit Upper Limit Unit	Ga GE_MMIM 0.5 -- ppb	Gd GE_MMIM 0.5 -- ppb	Hg GE_MMIM 1 -- ppb	In GE_MMIM 0.1 -- ppb	K GE_MMIM 0.5 -- ppm m / m	La GE_MMIM 1 -- ppb
W1	1.5	51.2	<1	<0.1	3.6	89
W2	20.7	47.3	<1	0.3	10.4	223
W3	8.4	60.9	<1	<0.1	3.4	208
W4	1.4	32.7	<1	<0.1	5.2	95
W5	0.8	16.6	<1	<0.1	6.6	31
W6	2.1	28.9	<1	<0.1	6.9	70

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Element Method Lower Limit Upper Limit Unit	Ga GE_MMIM 0.5 -- ppb	Gd GE_MMIM 0.5 -- ppb	Hg GE_MMIM 1 -- ppb	In GE_MMIM 0.1 -- ppb	K GE_MMIM 0.5 -- ppm m / m	La GE_MMIM 1 -- ppb
W7	0.6	15.9	<1	<0.1	4.7	30
W8	1.1	8.2	<1	<0.1	4.4	17
W9	0.6	8.5	<1	<0.1	4.2	14
W10	6.3	86.6	<1	0.2	19.2	190
W11	12.4	130	<1	0.2	11.1	568
W12	10.2	48.6	<1	0.2	17.6	169
W13	1.4	113	<1	0.1	13.6	84
W14	3.5	61.2	<1	<0.1	7.4	196
W15	8.0	51.1	<1	0.2	10.8	179
W17	1.8	140	<1	0.2	6.2	136
W18	7.3	62.5	<1	0.3	11.7	157
*Rep W8	1.2	7.7	<1	<0.1	4.4	16
*Rep W18	6.5	60.5	<1	0.3	11.3	146
*Std AMIS0169	9.2	32.7	<1	<0.1	40.3	338
*Blk BLANK	<0.5	<0.5	<1	<0.1	<0.5	<1

Element Method Lower Limit Upper Limit Unit	Li GE_MMIM 1 -- ppb	Mg GE_MMIM 0.5 -- ppm m / m	Mn GE_MMIM 100 -- ppb	Mo GE_MMIM 2 -- ppb	Nb GE_MMIM 0.5 -- ppb	Nd GE_MMIM 1 -- ppb
W1	8	46.9	2000	5	<0.5	163
W2	21	8.7	2200	6	8.1	218
W3	8	26.6	2300	5	2.5	235
W4	12	9.5	1900	2	<0.5	131
W5	2	24.0	1500	<2	<0.5	53
W6	16	24.1	800	<2	<0.5	101
W7	4	27.4	200	<2	<0.5	50
W8	6	13.9	1500	3	<0.5	28

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Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.5	100	2	0.5	1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
W9	6	10.0	500	3	<0.5	27
W10	21	29.9	5700	4	1.3	287
W11	19	15.7	6100	5	3.2	593
W12	23	12.5	5400	10	4.4	180
W13	<1	45.3	5800	<2	<0.5	219
W14	5	32.3	4500	4	1.1	258
W15	20	22.8	5100	9	3.9	202
W17	<1	52.1	1100	<2	<0.5	299
W18	4	6.6	2800	3	2.7	224
*Rep W8	4	13.3	1400	2	<0.5	28
*Rep W18	4	6.7	2800	3	2.4	200
*Std AMIS0169	<1	29.9	3000	3	2.6	295
*Bik BLANK	<1	<0.5	<100	<2	<0.5	<1

Element	Ni	P	Pb	Pd	Pr	Pt
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	5	0.1	5	1	0.5	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
W1	1040	0.2	37	<1	33.6	<0.1
W2	235	8.7	703	<1	53.7	<0.1
W3	298	1.0	259	<1	53.5	<0.1
W4	301	0.3	37	<1	28.9	<0.1
W5	705	0.2	21	<1	11.1	<0.1
W6	334	0.4	29	<1	22.1	<0.1
W7	431	0.3	20	<1	10.5	<0.1
W8	455	0.8	58	<1	6.3	<0.1
W9	101	0.4	11	<1	5.5	<0.1
W10	514	3.3	154	<1	63.4	<0.1

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Element	Ni	P	Pb	Pd	Pr	Pt
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	5	0.1	5	1	0.5	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppm m / m	ppb	ppb	ppb	ppb
W11	524	5.4	528	<1	148	<0.1
W12	317	8.3	681	<1	43.2	<0.1
W13	1120	0.6	1060	<1	40.2	<0.1
W14	383	2.4	462	<1	58.4	<0.1
W15	390	7.0	490	<1	48.7	<0.1
W17	1810	0.7	924	<1	57.2	<0.1
W18	255	4.6	579	<1	50.4	<0.1
*Rep W8	442	0.8	55	<1	5.9	<0.1
*Rep W18	276	4.3	590	<1	46.2	<0.1
*Std AMIS0169	331	2.5	76	<1	80.2	<0.1
*Blk BLANK	<5	<0.1	<5	<1	<0.5	<0.1

Element	Rb	Sb	Sc	Sm	Sn	Sr
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.5	5	1	1	10
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
W1	19	1.9	28	40	<1	2300
W2	77	6.4	55	44	1	240
W3	56	10.6	43	50	<1	1000
W4	27	2.0	30	26	<1	1360
W5	15	31.6	14	12	<1	1160
W6	29	81.4	22	22	<1	940
W7	16	26.2	16	12	<1	1310
W8	23	8.9	9	6	<1	1110
W9	18	3.9	16	7	<1	960
W10	71	12.6	128	67	<1	820
W11	111	9.8	109	116	<1	440
W12	106	26.7	56	38	<1	380

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Element	Rb	Sb	Sc	Sm	Sn	Sr
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.5	5	1	1	10
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
W13	34	3.0	72	62	<1	1510
W14	68	6.6	43	53	<1	900
W15	103	14.2	73	42	<1	690
W17	80	2.4	86	86	<1	1880
W18	108	4.2	45	48	<1	200
*Rep W8	23	9.7	9	6	<1	1110
*Rep W18	101	3.7	42	46	<1	200
*Std AMIS0169	212	0.6	44	44	2	80
*Blk BLANK	<1	<0.5	<5	<1	<1	<10

Element	Ta	Tb	Te	Th	Ti	Tl
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.1	10	0.5	10	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
W1	<1	6.6	<10	55.5	40	<0.1
W2	<1	7.1	<10	76.2	2320	0.4
W3	<1	8.2	<10	81.7	820	0.3
W4	<1	4.5	<10	49.7	70	<0.1
W5	<1	2.4	<10	53.1	20	<0.1
W6	<1	4.2	<10	144	60	<0.1
W7	<1	2.3	<10	93.2	10	<0.1
W8	<1	1.2	<10	83.9	70	<0.1
W9	<1	1.1	<10	25.6	40	<0.1
W10	<1	12.6	<10	54.7	420	0.1
W11	<1	18.3	<10	105	1180	0.3
W12	<1	7.0	<10	113	1120	0.4
W13	<1	22.5	<10	41.3	20	0.1
W14	<1	8.4	<10	74.1	250	0.1

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Element	Ta	Tb	Te	Th	Ti	Tl
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	1	0.1	10	0.5	10	0.1
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
W15	<1	7.3	<10	126	770	0.4
W17	<1	23.9	<10	70.8	30	0.2
W18	<1	10.0	<10	47.0	610	0.2
*Rep W8	<1	1.1	<10	85.1	70	<0.1
*Rep W18	<1	10.0	<10	43.8	520	0.2
*Std AMIS0169	<1	4.0	<10	55.5	390	1.1
*Blk BLANK	<1	<0.1	<10	<0.5	<10	<0.1

Element	U	W	Y	Yb	Zn	Zr
Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.5	0.5	1	0.2	10	2
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
W1	49.8	<0.5	216	14.3	160	56
W2	22.4	1.5	173	11.2	380	107
W3	33.3	0.9	277	19.1	150	72
W4	24.6	<0.5	205	20.8	60	22
W5	43.1	<0.5	90	7.1	70	11
W6	53.8	<0.5	165	14.7	70	25
W7	45.9	<0.5	82	7.0	40	13
W8	39.3	<0.5	41	3.9	200	23
W9	16.4	<0.5	34	3.1	30	39
W10	37.9	0.6	439	36.2	240	71
W11	49.6	1.1	567	41.3	300	151
W12	25.7	1.0	235	19.3	560	256
W13	78.6	<0.5	1060	72.3	1110	41
W14	42.3	<0.5	268	24.3	350	115
W15	38.6	0.7	227	21.7	450	264
W17	88.4	<0.5	975	75.4	150	71

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Method	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM	GE_MMIM
Lower Limit	0.5	0.5	1	0.2	10	2
Upper Limit	--	--	--	--	--	--
Unit	ppb	ppb	ppb	ppb	ppb	ppb
W18	24.9	<0.5	321	21.4	470	79
*Rep W8	36.9	<0.5	40	3.8	200	23
*Rep W18	24.1	<0.5	313	21.2	490	70
*Std AMIS0169	18.6	1.1	87	7.0	150	37
*Blk BLANK	<0.5	<0.5	<1	<0.2	<10	<2

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