Certificate of Analysis
Work Order : SD180130
[Report File No.: 0000033851]

Date: January 25, 2019

To: **JASON JESSUP**
URSA MAJOR MINERALS INCORPORATED
45 OAK ST
DOWLING ON P0M 1R0

P.O. No.: SHAKESPEARE / TEST: 38 Samples
Project No.: SHAKESPEARE
Samples: 38
Received: Dec 10, 2018
Pages: Page 1 to 11
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
38	G_LOG02	Pre-preparation processing, sorting, logging, boxing
38	G_WGH79	Weighing of samples and reporting of weights
36	G_PRP89	Weigh, dry,(up to3.0 kg) crush to 75% passing 2 mm, split 250 g, pulverize to
38	GE_FAI313	@Au, Pt, Pd, FAS, ICP-AES, 30g - 5ml (Clean Pots only)
38	GE_IMS90A	Sodium Peroxide fusion/ICP-MS package(34 elements)
38	G_SHIP	Shipping

Comments:

Results in 2 decimal places for S in GE_IMS90A are informational only.

Certified By : _____
Gerald Chik
Operations Manager/Chief Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at http://www.scc.ca/en/search/palcan/sgs

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable
I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the **@** symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element	WtKg	Au@	Pt@	Pd@	Ag	Al	As	Ba
Method	G_WGH79	GE_FAI313	GE_FAI313	GE_FAI313	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	1	10	1	1	0.01	3	10
Units	kg	ppb	ppb	ppb	ppm	%	ppm	ppm
S00355313	0.829	81	<10	2	3	9.05	1630	600
S00355314	1.133	3	<10	<1	1	1.31	<3	150
S00355315	2.077	<1	<10	<1	1	1.90	<3	100
S00355316	1.775	<1	<10	<1	1	2.25	<3	100
S00355317	0.716	3	<10	294	3	7.30	524	200
S00355318	1.299	5	<10	83	<1	2.70	237	150
S00355319	0.897	<1	<10	5	1	4.59	4	390
S00355320	0.102	90	450	581	4	2.67	208	90
S00355321	2.248	<1	<10	<1	2	9.54	<3	730
S00355322	0.781	<1	<10	1	1	9.47	3	450
S00355323	1.299	<1	<10	4	1	3.85	<3	270
S00355324	0.705	3	<10	9	4	7.68	<3	600
S00355325	1.762	<1	<10	1	<1	5.68	<3	490
S00355326	1.880	<1	<10	4	2	5.16	16	450
S00355327	1.285	<1	<10	<1	<1	2.27	3	110
S00355328	0.283	<1	<10	<1	4	0.07	<3	20
S00355329	0.892	<1	<10	5	2	8.55	5	870
S00355330	0.793	<1	<10	4	2	9.46	4	1070
S00355331	1.123	<1	<10	3	3	9.89	3	760
S00355332	2.967	<1	<10	1	<1	3.16	<3	180
S00355333	1.613	1	<10	5	2	10.1	<3	530
S00355334	0.859	3	<10	<1	1	2.42	5	130
S00355335	2.488	1	<10	5	2	10.5	5	450
S00355336	3.064	<1	<10	6	2	9.88	<3	510
S00355337	2.274	<1	<10	8	6	9.58	3	480
S00355338	2.076	<1	<10	8	<1	9.87	3	500
S00355339	1.129	<1	<10	7	2	9.83	7	580
S00355340	0.263	<1	<10	<1	5	0.10	<3	20
S00355341	1.855	<1	<10	2	2	3.49	13	200
S00355342	1.938	<1	<10	7	2	10.1	<3	600
S00355343	2.186	<1	<10	2	<1	2.83	4	110
S00355344	2.873	<1	<10	8	2	10.2	<3	410
S00355345	0.740	1	10	15	2	10.5	4	370
S00355346	2.668	<1	10	12	1	10.0	<3	380
S00355347	2.376	2	20	13	2	10.3	<3	470
S00355348	2.707	<1	<10	6	2	10.5	3	630
S00355349	1.852	2	10	9	2	9.32	7	500
S00355350	0.110	298	820	3500	7	5.98	16	120
*Rep S00355319		<1	<10	5				
*Std OREAS680		158	420	230				

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Element	Au@	Pt@	Pd@	Ag	Al	As	Ba
Method	GE_FAI313	GE_FAI313	GE_FAI313	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	1	10	1	1	0.01	3	10
Units	ppb	ppb	ppb	ppm	%	ppm	ppm
*Std PGMS25	503	410	1940				
*Blk BLANK	1	<10	<1				
*Rep S00355324				2	7.42	<3	590
*Std OREAS680				13	7.33	118	690
*Std OREAS70B				4	3.80	151	210
*Blk BLANK				<1	<0.01	<3	<10

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Element	Be	Bi	Ca	Cd	Co	Cr	Cs	Cu
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	1	0.1	0.1	0.2	0.5	5	0.1	2
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
S00355313	3	2.6	<0.1	<0.2	30.6	139	2.6	88
S00355314	<1	0.4	<0.1	<0.2	4.3	62	0.4	16
S00355315	<1	<0.1	<0.1	<0.2	2.8	53	0.2	48
S00355316	<1	<0.1	0.1	<0.2	17.8	62	0.2	88
S00355317	<1	0.4	3.3	1.5	463	24	1.1	275
S00355318	<1	<0.1	0.4	<0.2	104	57	0.3	172
S00355319	1	0.1	0.7	<0.2	17.4	96	1.3	66
S00355320	<1	0.1	3.2	0.4	175	2880	2.1	2940
S00355321	2	<0.1	1.6	<0.2	23.4	146	1.8	25
S00355322	1	<0.1	1.4	<0.2	19.8	100	0.9	14
S00355323	<1	<0.1	0.3	<0.2	9.3	62	0.5	45
S00355324	1	0.2	0.6	<0.2	25.0	118	1.0	118
S00355325	<1	<0.1	0.4	<0.2	11.9	95	0.7	36
S00355326	<1	<0.1	0.9	<0.2	24.6	168	1.1	34
S00355327	<1	<0.1	0.3	<0.2	14.7	92	0.5	31
S00355328	<1	<0.1	>25.0	<0.2	1.1	12	<0.1	4
S00355329	1	0.1	1.4	<0.2	32.3	240	1.7	46
S00355330	2	0.1	1.2	<0.2	32.8	271	2.9	46
S00355331	1	0.1	0.9	<0.2	30.8	168	1.8	46
S00355332	<1	<0.1	0.3	<0.2	4.8	74	0.5	25
S00355333	2	0.1	1.9	<0.2	31.4	288	1.6	46
S00355334	<1	<0.1	0.5	<0.2	7.2	94	0.2	28
S00355335	2	0.2	2.9	<0.2	46.0	333	1.4	110
S00355336	2	0.2	2.3	<0.2	42.0	309	1.4	100
S00355337	2	0.3	2.7	<0.2	45.7	329	1.1	127
S00355338	2	0.3	2.2	<0.2	49.1	344	1.2	126
S00355339	2	0.2	2.3	<0.2	43.4	340	1.2	103
S00355340	<1	<0.1	>25.0	<0.2	1.2	12	<0.1	4
S00355341	<1	<0.1	1.0	<0.2	11.2	89	0.4	16
S00355342	2	0.2	1.9	<0.2	42.7	328	1.2	82
S00355343	<1	<0.1	0.3	<0.2	5.2	80	0.2	36
S00355344	2	0.2	3.1	<0.2	48.2	374	0.9	120
S00355345	2	0.4	3.3	<0.2	75.2	415	0.8	254
S00355346	2	0.3	3.0	<0.2	57.3	382	0.8	156
S00355347	2	0.3	2.9	<0.2	51.0	388	1.0	156
S00355348	2	0.1	1.7	<0.2	38.5	266	1.3	68
S00355349	2	0.3	2.6	<0.2	43.0	259	1.3	129
S00355350	<1	1.0	3.8	2.2	1050	331	0.7	16800

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Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	1	0.1	0.1	0.2	0.5	5	0.1	2
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
*Rep S00355324	1	0.2	0.6	<0.2	24.6	118	1.0	115
*Std OREAS680	1	1.8	5.7	8.4	306	2100	3.7	9330
*Std OREAS70B	<1	0.8	3.2	0.4	75.2	1250	3.1	49
*Blk BLANK	<1	<0.1	<0.1	<0.2	<0.5	<5	<0.1	<2

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Element	Fe	K	La	Li	Mg	Mn	Mo	Ni
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	0.1	0.1	5	0.01	10	2	5
Units	%	%	ppm	ppm	%	ppm	ppm	ppm
S00355313	2.36	5.7	28.5	18	0.68	60	<2	42
S00355314	0.94	1.3	3.8	<5	0.09	40	3	8
S00355315	0.59	0.3	6.0	<5	0.08	40	2	5
S00355316	1.16	0.4	6.6	<5	0.10	60	3	158
S00355317	13.3	1.1	8.2	18	2.62	1040	<2	2170
S00355318	1.41	0.6	15.2	<5	0.22	80	3	159
S00355319	2.87	1.4	12.0	13	1.07	240	4	82
S00355320	11.8	0.1	3.7	27	14.8	1300	<2	3550
S00355321	6.07	3.2	30.8	25	2.30	380	2	46
S00355322	5.92	1.9	21.0	21	2.21	400	<2	57
S00355323	2.07	1.1	9.9	8	0.67	140	2	33
S00355324	5.01	2.6	15.2	18	1.60	270	3	105
S00355325	2.51	1.9	14.5	12	1.03	180	<2	31
S00355326	3.15	1.9	11.2	17	1.38	240	4	75
S00355327	2.48	0.5	3.7	10	1.09	200	4	31
S00355328	0.39	<0.1	1.3	<5	3.44	130	<2	12
S00355329	5.31	2.9	22.7	26	2.37	360	3	106
S00355330	5.53	3.3	23.8	28	2.47	360	2	110
S00355331	5.34	3.2	29.8	25	2.39	340	3	89
S00355332	1.02	1.1	7.1	6	0.35	70	3	13
S00355333	5.65	2.7	22.4	25	2.42	330	3	119
S00355334	1.17	0.8	5.9	<5	0.33	90	5	24
S00355335	6.34	2.5	25.2	26	2.77	390	4	153
S00355336	6.18	2.7	23.9	23	2.77	390	3	150
S00355337	6.38	2.6	23.5	22	2.75	400	3	169
S00355338	6.41	2.8	27.6	26	2.97	420	4	177
S00355339	6.04	3.1	20.6	25	2.81	410	4	182
S00355340	0.43	<0.1	1.4	<5	2.57	120	<2	12
S00355341	1.25	1.1	8.4	6	0.53	130	3	24
S00355342	6.14	3.0	22.8	23	2.68	390	3	162
S00355343	0.83	0.8	18.9	<5	0.25	70	3	13
S00355344	6.93	2.0	22.4	25	3.08	530	4	181
S00355345	7.39	1.8	23.1	24	3.22	540	5	290
S00355346	6.75	1.8	23.6	25	3.20	590	4	223
S00355347	6.92	2.1	23.8	24	3.12	520	4	208
S00355348	5.48	3.0	21.9	26	2.68	420	3	119
S00355349	5.93	2.3	25.3	23	2.60	360	3	140
S00355350	20.0	0.3	7.5	11	4.06	1080	8	48900

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Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	0.1	0.1	5	0.01	10	2	5
Units	%	%	ppm	ppm	%	ppm	ppm	ppm
*Rep S00355324	4.90	2.6	14.9	17	1.60	250	3	101
*Std OREAS680	13.0	1.2	19.2	14	3.82	1250	4	22300
*Std OREAS70B	6.07	0.6	15.0	34	14.3	1160	3	2060
*Blk BLANK	<0.01	<0.1	<0.1	<5	<0.01	<10	<2	<5

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Element	P	Pb	S	Sb	Si	Sn	Sr	Te
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	2	1	1	0.1	1	10	1
Units	%	ppm	%	ppm	%	ppm	ppm	ppm
S00355313	0.02	6	<1.00	4	29.0	<1	20	<1
S00355314	<0.01	6	<1.00	<1	>40.0	<1	10	<1
S00355315	<0.01	4	<1.00	<1	>40.0	<1	20	<1
S00355316	<0.01	9	<1.00	<1	>40.0	<1	20	<1
S00355317	0.04	97	6.35	<1	21.0	<1	70	<1
S00355318	<0.01	7	<1.00	<1	39.1	<1	30	<1
S00355319	0.02	8	<1.00	<1	33.5	<1	30	<1
S00355320	0.02	5	1.20	4	16.9	<1	20	1
S00355321	0.04	6	<1.00	<1	26.6	<1	60	<1
S00355322	0.04	8	<1.00	<1	24.5	<1	100	<1
S00355323	<0.01	5	<1.00	<1	37.5	<1	30	<1
S00355324	0.03	11	<1.00	<1	30.4	<1	40	<1
S00355325	0.01	6	<1.00	<1	33.4	<1	30	<1
S00355326	0.02	8	<1.00	<1	37.3	<1	20	<1
S00355327	<0.01	7	<1.00	<1	>40.0	<1	10	<1
S00355328	<0.01	<2	<1.00	<1	4.6	<1	60	<1
S00355329	0.02	11	<1.00	<1	27.7	<1	70	<1
S00355330	0.02	14	<1.00	<1	27.9	<1	60	<1
S00355331	0.02	7	<1.00	<1	27.1	<1	70	<1
S00355332	0.01	9	<1.00	<1	35.7	<1	30	<1
S00355333	0.02	8	<1.00	<1	27.5	<1	120	<1
S00355334	<0.01	4	<1.00	<1	>40.0	<1	30	<1
S00355335	0.03	10	<1.00	<1	27.5	<1	160	<1
S00355336	0.02	9	<1.00	<1	25.8	<1	140	<1
S00355337	0.02	11	<1.00	<1	23.5	<1	130	<1
S00355338	0.03	21	<1.00	<1	25.3	<1	100	<1
S00355339	0.02	8	<1.00	<1	24.5	<1	60	<1
S00355340	<0.01	<2	<1.00	<1	4.9	<1	60	<1
S00355341	<0.01	5	<1.00	<1	34.7	<1	40	<1
S00355342	0.02	9	<1.00	<1	25.0	<1	80	<1
S00355343	<0.01	5	<1.00	<1	39.9	<1	20	<1
S00355344	0.03	15	<1.00	<1	23.4	<1	170	<1
S00355345	0.03	10	<1.00	<1	24.9	<1	190	<1
S00355346	0.02	35	<1.00	<1	23.4	<1	170	<1
S00355347	0.02	10	<1.00	<1	25.8	<1	160	<1
S00355348	0.03	7	<1.00	<1	24.3	<1	80	<1
S00355349	0.03	15	<1.00	<1	26.3	<1	100	<1
S00355350	0.05	18	8.89	3	15.6	<1	180	5

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Final : SD180130 Order: SHAKESPEARE / TEST: 38 Samples

Report File No.: 0000033851

Element	P	Pb	S	Sb	Si	Sn	Sr	Te
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	2	1	1	0.1	1	10	1
Units	%	ppm	%	ppm	%	ppm	ppm	ppm
*Rep S00355324	0.03	11	<1.00	<1	29.3	<1	40	<1
*Std OREAS680	0.12	2830	5.26	20	20.4	<1	410	<1
*Std OREAS70B	0.02	13	<1.00	<1	22.1	<1	70	<1
*Blk BLANK	<0.01	<2	<1.00	<1	0.1	<1	<10	<1

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Final : SD180130 Order: SHAKESPEARE / TEST: 38 Samples

Report File No.: 0000033851

Element	Ti	V	W	Y	Yb	Zn
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	5	5	0.5	0.1	5
Units	%	ppm	ppm	ppm	ppm	ppm
S00355313	0.32	88	<5	14.4	1.6	17
S00355314	0.02	<5	<5	4.1	0.3	<5
S00355315	0.03	5	<5	3.2	0.4	9
S00355316	0.03	6	<5	4.1	0.3	15
S00355317	0.07	15	<5	21.3	2.1	354
S00355318	0.03	9	<5	6.1	0.5	6
S00355319	0.28	54	<5	10.7	1.3	29
S00355320	0.30	131	<5	8.2	0.7	117
S00355321	0.56	144	<5	17.8	2.0	53
S00355322	0.57	111	<5	20.6	1.9	65
S00355323	0.12	30	<5	4.3	0.5	22
S00355324	0.40	98	<5	10.4	1.3	59
S00355325	0.19	62	<5	6.4	0.8	28
S00355326	0.24	105	<5	7.7	0.8	35
S00355327	0.05	44	<5	1.7	0.2	29
S00355328	<0.01	<5	<5	2.7	<0.1	8
S00355329	0.36	204	<5	12.7	1.3	50
S00355330	0.39	218	<5	14.0	1.4	55
S00355331	0.39	147	<5	14.2	1.5	48
S00355332	0.06	16	<5	4.2	0.5	19
S00355333	0.38	235	<5	13.7	1.4	42
S00355334	0.04	17	<5	4.8	0.4	7
S00355335	0.43	269	<5	16.4	1.7	46
S00355336	0.41	260	<5	12.9	1.4	45
S00355337	0.38	273	<5	13.3	1.5	52
S00355338	0.37	288	<5	13.6	1.4	71
S00355339	0.35	275	<5	11.9	1.4	58
S00355340	<0.01	<5	<5	2.9	0.1	<5
S00355341	0.07	34	<5	4.8	0.5	16
S00355342	0.39	263	<5	11.9	1.2	51
S00355343	0.04	12	<5	4.2	0.4	9
S00355344	0.39	317	<5	14.1	1.5	96
S00355345	0.40	337	<5	14.0	1.5	79
S00355346	0.34	337	<5	13.3	1.5	93
S00355347	0.35	318	<5	13.9	1.4	84
S00355348	0.36	236	<5	13.0	1.4	57
S00355349	0.50	259	<5	14.2	1.6	59
S00355350	0.53	83	<5	9.6	0.9	171

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Final : SD180130 Order: SHAKESPEARE / TEST: 38 Samples

Report File No.: 0000033851

Element	Ti	V	W	Y	Yb	Zn
Method	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A	GE_IMS90A
Det.Lim.	0.01	5	5	0.5	0.1	5
Units	%	ppm	ppm	ppm	ppm	ppm
*Rep S00355324	0.38	95	<5	10.4	1.2	58
*Std OREAS680	0.47	228	<5	16.3	1.6	2550
*Std OREAS70B	0.18	69	<5	10.3	1.1	128
*Blk BLANK	<0.01	<5	<5	<0.5	<0.1	<5

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