Certificate of Analysis
Work Order : SU1700744
[Report File No.: 0000011573]

Date: September 01, 2017

To: **Richard Zemoroz**
NEW AGE METALS INC
3064 Brunet Cres.
Val Caron ON
ON P3N 1E6

P.O. No.: RV2017-0412-0482
Project No.: RIVER VALLEY PGM
Samples: 71
Received: Aug 11, 2017
Pages: Page 1 to 11
(Inclusive of Cover Sheet)

Methods Summary

No. Of Samples	Method Code	Description
71	SHIP	Shipping
71	G_WGH79	Weighing of samples and reporting of weights
70	G_PRP92	Weigh, Dry, to 3kg, Crush 90% -2mm, Split to 500g, Pulverise to 85% -75µm
71	GE_FAI313	@Au, Pt, Pd, FAS, ICP-AES, 30g - 5ml
71	GE_ICP14B	2 acid digest for non-organic or low sulphide <10% - ICP-OES

Storage: Pulp & Reject

REJECT STORAGE	:	RETURN
PULP STORAGE	:	RETURN

Comments:

Preparation of samples was performed at the SGS Sudbury site
Assays not suitable for commercial exchange.

Certified By : Sarah Thyret-Auber
Sarah Thyret
Project Coordinator

SGS Minerals Services (Lakefield) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= 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_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	0.001	1	10	1	2	0.01	3	5
Units	kg	ppb	ppb	ppb	ppm	%	ppm	ppm
RV2017-0412	1.679	35	<10	<1	<2	0.88	<3	95
RV2017-0413	2.217	25	<10	<1	<2	0.77	<3	58
RV2017-0414	2.072	36	<10	<1	<2	0.73	<3	52
RV2017-0415	2.076	17	<10	<1	<2	0.71	<3	50
RV2017-0416	1.911	11	<10	<1	<2	0.84	<3	63
RV2017-0417	2.358	12	<10	<1	<2	0.78	4	57
RV2017-0418	2.126	12	<10	<1	<2	0.84	<3	52
RV2017-0419	2.104	4	<10	<1	<2	0.74	<3	47
RV2017-0420	1.897	5	<10	<1	<2	0.77	<3	49
RV2017-0421	1.876	5	<10	<1	<2	0.63	<3	28
RV2017-0422	1.814	6	<10	<1	<2	0.69	<3	41
RV2017-0423	2.206	3	<10	<1	<2	0.61	<3	46
RV2017-0424	2.282	2	<10	1	<2	1.88	<3	1068
RV2017-0425	0.819	2	<10	<1	<2	0.07	<3	<5
RV2017-0426	2.378	2	<10	<1	<2	1.87	<3	943
RV2017-0427	2.664	2	<10	<1	<2	0.76	<3	373
RV2017-0428	2.177	1	<10	<1	<2	0.62	<3	231
RV2017-0429	2.376	2	<10	<1	<2	0.66	<3	156
RV2017-0430	2.358	2	<10	2	<2	2.09	<3	961
RV2017-0431	1.936	3	<10	3	<2	3.13	<3	217
RV2017-0432	2.354	2	<10	2	<2	1.04	<3	348
RV2017-0433	2.176	2	<10	<1	<2	1.22	<3	271
RV2017-0434	2.236	2	<10	2	<2	2.58	3	409
RV2017-0435	2.243	2	<10	<1	<2	1.74	<3	149
RV2017-0436	2.297	2	<10	3	<2	3.99	3	379
RV2017-0437	2.412	5	<10	2	<2	3.58	4	487
RV2017-0438	2.150	1	<10	1	<2	1.79	<3	330
RV2017-0439	1.979	2	<10	2	<2	2.53	<3	281
RV2017-0440	1.989	3	<10	2	<2	2.52	<3	209
RV2017-0441	2.102	2	<10	<1	<2	1.44	3	248
RV2017-0442	2.342	46	299	1067	<2	3.45	4	305
RV2017-0443	2.598	70	532	1748	<2	3.55	5	210
RV2017-0444	2.549	16	52	144	<2	2.60	<3	182
RV2017-0445	0.065	22	163	353	<2	3.78	<3	42
RV2017-0446	2.511	78	742	2711	3	3.23	5	303
*Dup RV2017-0446	<0.001	70	806	2835	3	3.24	<3	300
RV2017-0447	2.257	66	394	1210	<2	2.94	<3	183
RV2017-0448	2.694	21	94	236	<2	2.67	3	93
RV2017-0449	2.260	56	244	646	<2	2.65	<3	92
RV2017-0450	2.382	93	444	1296	<2	2.28	<3	130

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Element	WtKg	@Au	Pt	Pd	Ag	Al	As	Ba
Method	G_WGH79	GE_FAI313	GE_FAI313	GE_FAI313	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	0.001	1	10	1	2	0.01	3	5
Units	kg	ppb	ppb	ppb	ppm	%	ppm	ppm
RV2017-0451	2.592	27	93	283	<2	2.43	<3	266
RV2017-0452	2.246	29	83	178	<2	2.41	<3	316
RV2017-0453	2.306	43	257	694	<2	2.36	<3	330
RV2017-0454	2.625	45	267	864	<2	2.42	3	327
RV2017-0455	2.673	28	189	518	<2	2.39	<3	434
RV2017-0456	2.637	68	190	510	<2	2.65	<3	118
RV2017-0457	2.413	39	192	493	<2	2.69	<3	33
RV2017-0458	2.587	52	152	521	<2	2.19	<3	24
RV2017-0459	2.173	50	261	608	<2	1.58	<3	33
RV2017-0460	2.549	21	66	141	<2	1.87	<3	128
RV2017-0461	2.629	34	212	518	<2	2.31	<3	59
RV2017-0462	2.308	25	142	391	<2	3.19	<3	37
RV2017-0463	2.486	6	48	61	<2	2.96	<3	56
RV2017-0464	2.241	10	<10	1	<2	0.87	3	83
RV2017-0465	0.667	1	<10	<1	<2	0.02	<3	<5
RV2017-0466	2.270	13	<10	<1	<2	0.82	<3	77
RV2017-0467	2.234	18	<10	<1	<2	0.63	5	62
RV2017-0468	2.334	22	<10	<1	<2	0.73	<3	72
RV2017-0469	2.133	19	<10	<1	<2	0.85	<3	74
RV2017-0470	2.268	28	<10	<1	<2	0.65	3	26
RV2017-0471	2.361	33	<10	<1	<2	0.65	<3	37
RV2017-0472	2.294	6	<10	1	<2	0.72	<3	56
RV2017-0473	2.379	14	<10	<1	<2	0.49	<3	23
RV2017-0474	2.032	6	<10	<1	<2	0.66	<3	40
RV2017-0475	2.302	5	<10	<1	<2	0.72	<3	39
RV2017-0476	2.308	4	<10	<1	<2	0.69	<3	35
RV2017-0477	2.420	4	<10	2	<2	1.05	10	77
RV2017-0478	2.319	3	<10	3	<2	1.87	33	111
RV2017-0479	2.074	4	<10	5	<2	2.09	17	142
RV2017-0480	2.499	2	<10	5	<2	2.31	15	129
RV2017-0481	1.917	7	15	10	<2	2.58	19	172
RV2017-0482	1.966	8	18	18	<2	3.08	33	98
*Rep RV2017-0446		66	735	2679				
*Rep RV2017-0458		46	172	507				

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Element	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
Method	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	0.5	5	0.01	1	1	1	0.5	0.01
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%
RV2017-0412	<0.5	<5	0.12	<1	17	45	40.1	1.41
RV2017-0413	<0.5	<5	0.14	<1	13	34	28.0	1.41
RV2017-0414	<0.5	<5	0.08	<1	15	40	23.7	1.52
RV2017-0415	<0.5	<5	0.08	<1	12	31	22.8	1.45
RV2017-0416	<0.5	<5	0.11	<1	9	36	18.6	1.44
RV2017-0417	<0.5	<5	0.09	<1	12	26	31.3	1.50
RV2017-0418	<0.5	<5	0.10	<1	10	38	25.2	1.76
RV2017-0419	<0.5	<5	0.09	<1	12	28	72.5	1.81
RV2017-0420	<0.5	<5	0.09	<1	10	49	32.5	1.81
RV2017-0421	<0.5	<5	0.08	<1	12	32	42.3	1.76
RV2017-0422	<0.5	<5	0.09	<1	9	40	28.9	1.71
RV2017-0423	<0.5	<5	0.16	<1	6	30	19.7	1.25
RV2017-0424	<0.5	<5	1.48	<1	19	26	28.9	3.88
RV2017-0425	<0.5	<5	<0.01	<1	<1	34	4.5	0.53
RV2017-0426	<0.5	<5	1.42	<1	22	36	45.1	3.95
RV2017-0427	<0.5	<5	0.90	<1	10	127	20.5	2.40
RV2017-0428	<0.5	<5	0.71	<1	6	68	7.5	1.54
RV2017-0429	<0.5	<5	0.69	<1	10	97	36.1	1.88
RV2017-0430	<0.5	<5	0.72	<1	25	230	39.3	4.07
RV2017-0431	<0.5	<5	0.45	<1	40	265	84.6	5.79
RV2017-0432	<0.5	<5	0.51	<1	14	99	24.3	2.00
RV2017-0433	<0.5	<5	0.70	<1	10	95	13.4	2.03
RV2017-0434	<0.5	<5	0.71	<1	25	223	37.8	4.33
RV2017-0435	<0.5	<5	0.27	<1	14	131	20.5	2.86
RV2017-0436	<0.5	<5	0.62	<1	37	316	85.4	6.76
RV2017-0437	<0.5	<5	0.53	<1	35	242	56.0	6.11
RV2017-0438	<0.5	<5	0.32	<1	14	114	12.7	3.07
RV2017-0439	<0.5	<5	0.53	<1	27	205	45.2	4.49
RV2017-0440	<0.5	<5	0.63	<1	28	233	42.2	4.43
RV2017-0441	<0.5	<5	0.72	<1	17	109	27.5	2.54
RV2017-0442	<0.5	<5	0.73	<1	40	249	968	5.07
RV2017-0443	<0.5	<5	0.54	<1	50	271	1295	5.24
RV2017-0444	<0.5	<5	0.48	<1	32	312	417	3.87
RV2017-0445	<0.5	<5	2.80	<1	41	96	194	3.80
RV2017-0446	<0.5	<5	0.79	<1	63	156	2344	5.44
*Dup RV2017-0446	<0.5	<5	0.93	<1	62	154	2216	5.36
RV2017-0447	<0.5	<5	0.93	<1	43	136	1665	4.31
RV2017-0448	<0.5	<5	0.77	<1	46	314	550	3.66
RV2017-0449	<0.5	<5	0.58	<1	61	220	1359	4.41
RV2017-0450	<0.5	<5	1.12	<1	52	65	1439	3.63

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Method	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	0.5	5	0.01	1	1	1	0.5	0.01
Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%
RV2017-0451	<0.5	<5	1.26	<1	35	59	561	4.03
RV2017-0452	<0.5	<5	1.37	<1	33	64	548	4.16
RV2017-0453	<0.5	<5	1.14	<1	50	60	701	4.38
RV2017-0454	<0.5	<5	1.48	<1	56	56	822	4.79
RV2017-0455	<0.5	<5	1.34	<1	51	54	505	4.67
RV2017-0456	<0.5	<5	0.99	<1	56	98	1519	4.58
RV2017-0457	<0.5	<5	0.57	<1	93	402	1868	5.80
RV2017-0458	<0.5	<5	0.66	<1	64	89	1388	4.39
RV2017-0459	<0.5	<5	0.91	<1	51	51	1185	3.35
RV2017-0460	<0.5	<5	1.35	<1	38	72	531	3.55
RV2017-0461	<0.5	<5	1.32	<1	61	156	938	5.06
RV2017-0462	<0.5	<5	1.74	<1	38	103	538	3.83
RV2017-0463	<0.5	<5	1.35	<1	31	67	129	3.51
RV2017-0464	<0.5	<5	0.17	<1	19	38	172	1.22
RV2017-0465	<0.5	<5	0.01	<1	<1	42	4.5	0.37
RV2017-0466	<0.5	<5	0.08	<1	22	34	34.8	1.30
RV2017-0467	<0.5	<5	0.07	<1	18	35	28.1	1.10
RV2017-0468	<0.5	<5	0.11	<1	18	30	30.5	1.10
RV2017-0469	<0.5	<5	0.15	<1	18	39	32.5	1.29
RV2017-0470	<0.5	<5	0.24	<1	17	31	31.2	1.54
RV2017-0471	<0.5	<5	0.27	<1	9	27	19.3	1.27
RV2017-0472	<0.5	<5	0.17	<1	7	39	21.8	1.18
RV2017-0473	<0.5	<5	0.06	<1	10	30	36.1	1.31
RV2017-0474	<0.5	<5	0.16	<1	8	38	31.2	1.33
RV2017-0475	<0.5	<5	0.06	<1	9	29	35.0	1.61
RV2017-0476	<0.5	<5	0.06	<1	12	42	68.7	1.76
RV2017-0477	<0.5	<5	0.13	<1	18	38	42.6	2.05
RV2017-0478	<0.5	<5	0.19	<1	36	54	46.8	3.53
RV2017-0479	<0.5	<5	0.18	<1	26	52	11.8	3.78
RV2017-0480	<0.5	<5	1.56	<1	24	60	6.7	4.19
RV2017-0481	<0.5	<5	0.26	<1	33	54	38.7	4.95
RV2017-0482	<0.5	<5	1.45	<1	47	16	47.3	5.98

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Element	Hg	K	La	Li	Mg	Mn	Mo	Na
Method	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	1	0.01	0.5	1	0.01	2	1	0.01
Units	ppm	%	ppm	ppm	%	ppm	ppm	%
RV2017-0412	<1	0.46	7.4	9	0.39	120	3	0.02
RV2017-0413	<1	0.30	12.6	10	0.44	130	3	0.02
RV2017-0414	<1	0.26	5.2	9	0.43	141	3	0.02
RV2017-0415	<1	0.25	6.4	9	0.39	134	3	0.02
RV2017-0416	<1	0.33	7.8	10	0.40	132	3	0.02
RV2017-0417	<1	0.30	9.1	10	0.39	124	2	0.02
RV2017-0418	<1	0.26	10.0	12	0.49	151	3	0.02
RV2017-0419	<1	0.19	17.6	10	0.48	154	3	0.02
RV2017-0420	<1	0.18	4.0	10	0.51	168	4	0.02
RV2017-0421	<1	0.10	5.7	9	0.48	158	3	0.01
RV2017-0422	<1	0.16	3.1	9	0.48	162	3	0.02
RV2017-0423	<1	0.18	25.7	8	0.37	124	3	0.01
RV2017-0424	<1	0.97	14.5	19	1.60	394	<1	0.16
RV2017-0425	<1	0.03	3.4	<1	<0.01	57	3	0.02
RV2017-0426	<1	0.91	14.3	18	1.58	385	<1	0.17
RV2017-0427	<1	0.28	12.7	9	0.83	214	<1	0.13
RV2017-0428	<1	0.17	14.4	7	0.56	169	<1	0.16
RV2017-0429	<1	0.19	11.1	7	0.70	208	<1	0.15
RV2017-0430	<1	1.04	13.5	24	2.09	402	<1	0.13
RV2017-0431	<1	0.35	9.5	27	3.24	599	5	0.07
RV2017-0432	<1	0.46	7.9	12	0.96	217	<1	0.13
RV2017-0433	<1	0.49	10.5	13	1.09	231	<1	0.09
RV2017-0434	<1	0.75	19.0	24	2.46	475	1	0.11
RV2017-0435	<1	0.23	25.9	17	1.62	352	1	0.08
RV2017-0436	<1	0.69	10.5	34	3.86	758	2	0.08
RV2017-0437	<1	0.93	14.9	32	3.46	705	2	0.08
RV2017-0438	<1	0.66	20.4	17	1.74	350	<1	0.13
RV2017-0439	<1	0.56	28.3	23	2.49	496	2	0.08
RV2017-0440	<1	0.48	39.4	21	2.44	502	2	0.09
RV2017-0441	<1	0.72	24.1	13	1.23	299	1	0.10
RV2017-0442	<1	1.99	6.9	40	3.41	569	<1	0.13
RV2017-0443	<1	1.34	4.9	36	3.71	634	1	0.12
RV2017-0444	<1	1.28	8.9	30	2.60	490	2	0.09
RV2017-0445	<1	0.10	1.0	4	2.98	425	<1	0.66
RV2017-0446	<1	2.02	3.4	29	3.06	561	2	0.08
*Dup RV2017-0446	<1	1.98	3.5	29	2.97	569	2	0.09
RV2017-0447	<1	1.18	2.1	23	2.68	473	<1	0.15
RV2017-0448	<1	0.44	5.4	21	2.52	433	<1	0.19
RV2017-0449	1	0.41	5.0	20	2.71	468	1	0.13
RV2017-0450	<1	0.37	2.2	16	1.88	412	<1	0.16

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Final : SU1700744 Order: RV2017-0412-0482

Report File No.: 0000011573

Element	Hg	K	La	Li	Mg	Mn	Mo	Na
Method	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	1	0.01	0.5	1	0.01	2	1	0.01
Units	ppm	%	ppm	ppm	%	ppm	ppm	%
RV2017-0451	<1	0.72	0.9	20	2.13	488	<1	0.09
RV2017-0452	<1	0.71	1.3	21	2.20	524	<1	0.12
RV2017-0453	<1	0.71	1.4	20	2.15	505	<1	0.11
RV2017-0454	<1	0.68	1.2	21	2.16	546	1	0.12
RV2017-0455	<1	0.86	1.2	20	2.05	526	<1	0.11
RV2017-0456	<1	0.41	3.7	20	2.56	492	<1	0.15
RV2017-0457	<1	0.14	4.7	20	3.25	533	1	0.09
RV2017-0458	<1	0.11	3.5	17	2.31	453	1	0.13
RV2017-0459	<1	0.13	3.5	17	1.54	352	<1	0.13
RV2017-0460	<1	0.37	2.5	19	1.62	437	<1	0.17
RV2017-0461	<1	0.27	2.2	31	2.76	539	<1	0.14
RV2017-0462	<1	0.33	2.0	30	2.49	481	<1	0.36
RV2017-0463	<1	0.55	2.1	29	2.46	467	<1	0.25
RV2017-0464	<1	0.48	7.8	15	0.52	138	2	0.02
RV2017-0465	<1	<0.01	1.0	<1	0.01	39	4	<0.01
RV2017-0466	<1	0.41	7.7	12	0.50	137	2	0.02
RV2017-0467	<1	0.30	5.4	10	0.39	115	2	0.02
RV2017-0468	<1	0.36	6.1	9	0.39	106	2	0.02
RV2017-0469	<1	0.39	5.3	10	0.45	124	3	0.02
RV2017-0470	<1	0.15	6.6	8	0.50	160	3	0.02
RV2017-0471	<1	0.20	12.8	8	0.43	146	2	0.01
RV2017-0472	<1	0.28	11.1	9	0.40	124	3	0.02
RV2017-0473	<1	0.13	3.0	6	0.32	118	3	0.01
RV2017-0474	<1	0.20	7.2	8	0.40	131	3	0.02
RV2017-0475	<1	0.18	5.5	9	0.47	141	2	0.01
RV2017-0476	<1	0.15	9.1	8	0.48	160	3	0.01
RV2017-0477	<1	0.27	10.7	13	0.71	214	3	0.01
RV2017-0478	<1	0.32	24.8	25	1.45	436	2	0.01
RV2017-0479	<1	0.40	17.7	27	1.59	458	2	0.01
RV2017-0480	<1	0.38	15.3	33	2.53	612	3	0.01
RV2017-0481	<1	0.55	18.7	35	1.94	578	2	0.02
RV2017-0482	<1	0.34	2.5	43	2.24	794	<1	0.03

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Element	Ni	P	Pb	S	Sb	Sc	Sn	Sr
Method	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	1	0.01	2	0.01	5	0.5	10	0.5
Units	ppm	%	ppm	%	ppm	ppm	ppm	ppm
RV2017-0412	32	0.02	3	0.24	<5	1.3	<10	5.1
RV2017-0413	28	0.02	13	0.20	<5	1.6	<10	5.7
RV2017-0414	27	0.02	6	0.25	<5	1.2	<10	5.2
RV2017-0415	27	0.02	6	0.21	<5	1.2	<10	4.0
RV2017-0416	28	0.02	6	0.16	<5	1.2	<10	4.9
RV2017-0417	38	0.02	5	0.25	<5	1.1	<10	4.1
RV2017-0418	34	0.02	6	0.22	<5	1.2	<10	4.3
RV2017-0419	34	0.02	9	0.31	<5	0.9	<10	3.3
RV2017-0420	27	0.02	6	0.18	<5	0.8	<10	3.6
RV2017-0421	29	0.03	9	0.22	<5	0.6	<10	3.1
RV2017-0422	26	0.03	7	0.19	<5	0.6	<10	3.4
RV2017-0423	20	0.02	5	0.08	<5	1.0	<10	3.5
RV2017-0424	21	0.26	<2	0.09	<5	5.8	<10	179
RV2017-0425	3	<0.01	<2	<0.01	<5	<0.5	<10	6.5
RV2017-0426	24	0.23	<2	0.13	<5	5.5	<10	168
RV2017-0427	44	0.11	<2	0.04	<5	3.8	<10	69.7
RV2017-0428	30	0.07	<2	0.02	<5	2.4	<10	74.4
RV2017-0429	41	0.06	<2	0.07	<5	4.0	<10	36.0
RV2017-0430	116	0.09	<2	0.10	<5	6.9	<10	57.2
RV2017-0431	149	0.03	6	0.24	<5	7.9	<10	61.6
RV2017-0432	85	0.04	2	0.07	<5	3.6	<10	68.9
RV2017-0433	50	0.06	2	0.01	<5	4.9	<10	120
RV2017-0434	110	0.04	9	0.16	<5	9.7	<10	108
RV2017-0435	53	0.02	4	0.07	<5	6.4	<10	45.9
RV2017-0436	160	0.02	3	0.31	<5	11.2	<10	101
RV2017-0437	135	0.02	4	0.19	<5	11.2	<10	87.7
RV2017-0438	57	0.02	4	0.04	<5	6.3	<10	51.3
RV2017-0439	111	0.02	4	0.15	<5	9.5	<10	91.8
RV2017-0440	124	0.02	6	0.17	<5	9.3	<10	105
RV2017-0441	55	0.08	4	0.13	<5	5.1	<10	110
RV2017-0442	276	0.03	9	0.23	<5	8.3	<10	69.2
RV2017-0443	380	0.01	3	0.37	<5	5.0	<10	54.7
RV2017-0444	166	0.02	22	0.22	<5	5.2	<10	51.3
RV2017-0445	249	<0.01	<2	0.05	<5	2.5	<10	169
RV2017-0446	495	0.01	5	0.75	<5	7.2	<10	74.6
*Dup RV2017-0446	488	0.01	4	0.75	<5	8.1	<10	83.8
RV2017-0447	351	<0.01	3	0.39	<5	6.9	<10	68.6
RV2017-0448	232	<0.01	3	0.44	<5	4.6	<10	78.5
RV2017-0449	380	<0.01	4	0.73	<5	4.4	<10	59.6
RV2017-0450	331	<0.01	2	0.52	<5	6.1	<10	102

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Report File No.: 0000011573

Element	Ni	P	Pb	S	Sb	Sc	Sn	Sr
Method	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	1	0.01	2	0.01	5	0.5	10	0.5
Units	ppm	%	ppm	%	ppm	ppm	ppm	ppm
RV2017-0451	123	<0.01	3	0.21	<5	7.3	<10	101
RV2017-0452	95	<0.01	2	0.18	<5	9.1	<10	89.0
RV2017-0453	202	<0.01	2	0.38	<5	8.1	<10	72.0
RV2017-0454	229	<0.01	2	0.47	<5	10.0	<10	90.0
RV2017-0455	165	<0.01	3	0.40	<5	9.0	<10	89.6
RV2017-0456	330	<0.01	4	0.68	<5	7.1	<10	78.4
RV2017-0457	549	<0.01	5	1.77	<5	4.8	<10	32.1
RV2017-0458	390	<0.01	3	0.91	<5	5.3	<10	45.1
RV2017-0459	307	0.01	6	0.62	<5	6.3	<10	47.3
RV2017-0460	142	<0.01	6	0.33	<5	9.3	<10	60.0
RV2017-0461	275	<0.01	17	0.73	<5	11.9	<10	53.4
RV2017-0462	180	0.01	4	0.24	<5	8.0	<10	73.4
RV2017-0463	105	0.01	5	0.05	<5	5.8	<10	58.8
RV2017-0464	39	0.02	8	0.14	<5	1.9	<10	8.6
RV2017-0465	3	<0.01	<2	<0.01	<5	<0.5	<10	1.9
RV2017-0466	35	0.01	6	0.22	<5	1.4	<10	6.1
RV2017-0467	28	0.01	6	0.19	<5	1.1	<10	4.9
RV2017-0468	32	0.02	8	0.18	<5	1.5	<10	5.7
RV2017-0469	37	0.02	13	0.29	<5	1.4	<10	5.2
RV2017-0470	33	0.01	9	0.28	<5	0.8	<10	4.2
RV2017-0471	29	0.01	6	0.15	<5	0.7	<10	4.0
RV2017-0472	24	0.02	5	0.12	<5	1.1	<10	4.4
RV2017-0473	26	0.02	7	0.25	<5	0.5	<10	3.0
RV2017-0474	26	0.03	5	0.10	<5	0.7	<10	4.0
RV2017-0475	28	0.02	7	0.22	<5	0.6	<10	3.1
RV2017-0476	30	0.02	7	0.24	<5	0.6	<10	2.9
RV2017-0477	42	0.03	8	0.18	<5	1.5	<10	3.7
RV2017-0478	69	0.04	6	0.11	<5	3.2	<10	5.0
RV2017-0479	42	0.04	10	0.02	<5	3.8	<10	4.8
RV2017-0480	44	0.03	4	0.01	<5	4.7	<10	8.5
RV2017-0481	53	0.04	5	0.10	<5	7.5	<10	7.3
RV2017-0482	67	0.03	5	0.11	<5	5.2	<10	38.3

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Report File No.: 0000011573

Element	Ti	V	W	Y	Zn	Zr
Method	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	0.01	1	10	0.5	1	0.5
Units	%	ppm	ppm	ppm	ppm	ppm
RV2017-0412	0.04	7	<10	4.8	11	9.2
RV2017-0413	0.04	7	<10	7.4	17	11.5
RV2017-0414	0.02	6	<10	4.5	16	10.1
RV2017-0415	0.03	5	<10	5.4	15	11.8
RV2017-0416	0.04	6	<10	4.6	16	13.1
RV2017-0417	0.03	5	<10	4.4	14	9.0
RV2017-0418	0.04	6	<10	5.7	19	10.8
RV2017-0419	0.02	5	<10	6.7	33	9.9
RV2017-0420	0.02	5	<10	4.3	78	12.7
RV2017-0421	<0.01	4	<10	2.6	78	6.9
RV2017-0422	<0.01	5	<10	2.4	134	7.7
RV2017-0423	0.03	5	<10	9.2	84	10.9
RV2017-0424	0.33	82	<10	10.0	54	3.0
RV2017-0425	<0.01	<1	<10	<0.5	2	2.6
RV2017-0426	0.31	83	<10	9.1	53	2.6
RV2017-0427	0.22	43	<10	7.7	25	3.4
RV2017-0428	0.12	23	<10	4.6	18	4.8
RV2017-0429	0.13	33	<10	5.9	19	2.5
RV2017-0430	0.22	81	<10	7.0	66	0.8
RV2017-0431	0.17	132	<10	3.1	161	0.6
RV2017-0432	0.15	25	<10	3.4	32	1.4
RV2017-0433	0.14	29	<10	7.2	35	2.1
RV2017-0434	0.22	86	<10	5.8	84	4.2
RV2017-0435	0.07	51	<10	3.1	57	1.3
RV2017-0436	0.24	147	<10	4.0	124	0.9
RV2017-0437	0.24	127	<10	5.4	105	0.8
RV2017-0438	0.16	57	<10	8.0	54	6.1
RV2017-0439	0.17	86	<10	9.0	67	3.7
RV2017-0440	0.20	103	<10	8.9	68	1.7
RV2017-0441	0.16	45	<10	7.8	37	5.9
RV2017-0442	0.15	75	<10	3.9	103	2.8
RV2017-0443	0.11	47	<10	2.3	104	1.2
RV2017-0444	0.11	48	<10	2.7	66	0.9
RV2017-0445	0.04	35	<10	1.0	17	0.8
RV2017-0446	0.20	79	<10	3.0	122	1.5
*Dup RV2017-0446	0.20	80	<10	3.3	120	1.6
RV2017-0447	0.12	58	<10	2.4	81	1.0
RV2017-0448	0.06	31	<10	2.2	54	2.7
RV2017-0449	0.06	28	<10	2.3	70	3.9
RV2017-0450	0.07	49	<10	1.8	58	1.2

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Report File No.: 0000011573

Element	Ti	V	W	Y	Zn	Zr
Method	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B	GE_ICP14B
Det.Lim.	0.01	1	10	0.5	1	0.5
Units	%	ppm	ppm	ppm	ppm	ppm
RV2017-0451	0.17	122	<10	1.6	54	<0.5
RV2017-0452	0.18	124	<10	2.0	53	0.6
RV2017-0453	0.15	116	<10	1.9	58	0.7
RV2017-0454	0.21	138	<10	2.1	56	0.9
RV2017-0455	0.25	105	<10	2.2	53	0.7
RV2017-0456	0.12	59	<10	2.9	62	2.0
RV2017-0457	0.04	35	<10	2.1	56	3.5
RV2017-0458	0.04	30	<10	2.0	61	2.8
RV2017-0459	0.06	31	<10	2.6	50	2.3
RV2017-0460	0.13	97	<10	2.7	48	1.3
RV2017-0461	0.16	131	<10	3.0	80	2.2
RV2017-0462	0.10	58	<10	3.8	62	2.1
RV2017-0463	0.09	46	<10	2.8	56	2.6
RV2017-0464	0.04	11	<10	4.8	84	12.6
RV2017-0465	<0.01	<1	<10	<0.5	2	0.8
RV2017-0466	0.02	8	<10	4.1	42	10.9
RV2017-0467	0.02	5	<10	3.9	29	8.5
RV2017-0468	0.04	7	<10	4.8	70	14.4
RV2017-0469	0.02	7	<10	5.7	104	17.7
RV2017-0470	<0.01	4	<10	3.3	59	7.9
RV2017-0471	<0.01	5	<10	5.0	125	9.1
RV2017-0472	0.01	6	<10	5.5	93	12.3
RV2017-0473	<0.01	4	<10	2.1	123	7.2
RV2017-0474	<0.01	5	<10	4.5	205	10.8
RV2017-0475	<0.01	4	<10	3.8	92	8.6
RV2017-0476	<0.01	4	<10	4.5	127	8.6
RV2017-0477	0.04	10	<10	8.4	288	19.6
RV2017-0478	0.08	21	<10	11.6	181	27.3
RV2017-0479	0.07	26	<10	9.4	85	19.8
RV2017-0480	0.11	29	<10	10.4	89	13.2
RV2017-0481	0.14	43	<10	12.8	82	18.1
RV2017-0482	0.14	52	<10	4.6	71	1.5

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