



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING & LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale
Perth WA 6155 Australia

Telephone (08) 9456 0404
Facsimile (08) 9456 0403

Reference: **u281969**
Date Finished: 27/11/2017
Order: NC-002
Project: NC-002
Date Received: 06/11/2017
Samples Analysed: **298**

FINAL ANALYSIS REPORT

Analysis of Mineral Samples

for

Northern Cobalt Ltd

67 Goodwood Rd Wayville SA 5034

Attention: Mr. M Schwarz

Authorised By:

Tom Lowther

Operations Manager

Bureau Veritas Minerals Pty Ltd



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	Aul ppb	Pt ppb	Pd ppb	Ca %	Cr ppm	Fe %	K %	Mg %
Detection Limit	1	5	5	0.01	10	0.01	0.01	0.01
149072	1	<5	<5	4.32	20	3.65	3.66	3.21
149073	2	<5	<5	3.87	20	3.45	5.66	2.81
149074	2	<5	<5	4.13	20	3.38	1.64	2.84
149075	<1	<5	<5	4.44	20	4.52	5.87	3.12
149076	<1	<5	<5	3.65	20	3.10	3.97	2.31
149077	<1	<5	<5	4.26	10	6.70	7.18	3.88
149078	<1	<5	<5	2.37	20	10.6	5.28	4.57
149079	<1	<5	<5	2.38	20	9.49	3.37	4.03
149080	IS	IS	IS	1.68	6880	24.7	0.11	1.20
149081	7	<5	<5	3.66	30	8.92	5.72	4.93
149082	<1	<5	<5	2.86	10	9.89	4.73	5.02
149083	1	<5	<5	1.52	10	10.1	3.91	5.20
149084	<1	<5	<5	1.60	20	3.28	10.4	1.59
149084 Rpt	<1	<5	<5	1.53	20	3.26	10.3	1.52
149085	<1	<5	<5	3.42	20	4.61	3.97	2.71
149086	1	<5	<5	4.49	10	6.39	7.36	3.93
149087	<1	<5	<5	2.01	10	9.38	4.70	4.48
149088	<1	<5	<5	1.69	10	9.26	6.49	4.16
149089	<1	<5	<5	2.42	10	6.41	5.23	3.21
Std Nominal	52	45	45	5.91	230	9.63	0.60	4.05
Determined	52	40	40	5.89	170	9.45	0.61	3.98
149090	2	<5	<5	3.86	10	4.25	8.49	2.96
149091	2	<5	<5	3.66	20	5.55	6.54	3.59
149092	3	<5	<5	3.70	20	5.15	5.64	3.01
149093	1	<5	<5	3.64	<10	7.71	5.24	4.22
149093 Rpt	1	<5	<5	3.68	<10	7.92	5.43	4.37
149094	<1	<5	<5	2.95	<10	9.79	5.94	4.54
149095	<1	<5	<5	2.71	<10	7.84	6.35	4.01
149096	<1	<5	<5	3.72	<10	8.49	4.53	4.26
149097	1	<5	<5	3.83	10	4.71	2.97	2.93
149098	2	<5	<5	5.08	10	3.94	3.57	3.17
149098 Rpt	1	<5	<5	5.24	<10	4.00	3.66	3.20
149099	<1	<5	<5	1.61	10	9.98	5.68	4.01
149100	IS	IS	IS	0.06	30	8.75	0.16	2.07
149101	2	<5	<5	0.67	20	11.0	5.75	4.39
149102	<1	<5	<5	0.66	20	12.6	4.75	4.91
149103	<1	<5	<5	0.64	10	14.1	4.00	5.17
149104	<1	<5	<5	0.76	10	13.0	4.60	5.23
149105	<1	<5	<5	1.76	10	10.5	5.07	4.99
149106	<1	<5	<5	8.03	10	7.02	4.81	5.97
149107	1	<5	<5	13.1	<10	4.64	3.55	7.57
149108	3	<5	<5	4.71	20	6.09	6.64	4.04



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	Au1 ppb	Pt ppb	Pd ppb	Ca %	Cr ppm	Fe %	K %	Mg %
Detection Limit	1	5	5	0.01	10	0.01	0.01	0.01
149109	<1	<5	<5	2.62	<10	10.2	4.28	5.04
149110	<1	<5	<5	1.88	<10	11.8	4.78	5.38
149111	<1	<5	<5	0.91	<10	13.7	3.39	5.91
Std Nominal	1.37M			2.48	170	8.65	2.35	1.71
Determined	1.35M	<5	<5	2.49	150	8.47	2.32	1.71
149112	<1	<5	<5	2.56	20	5.08	7.90	2.61
149113	<1	<5	<5	2.09	10	9.01	3.80	4.13
149114	<1	<5	<5	1.52	10	9.34	4.02	4.16
149115	<1	<5	<5	0.91	10	11.9	4.87	5.08
149116	<1	<5	<5	2.63	20	9.03	5.33	4.39
149117	<1	<5	<5	3.75	10	6.72	5.41	3.86
149117 Rpt	1	<5	<5	3.85	10	6.87	5.91	3.99
149118	3	<5	<5	3.25	20	5.15	7.47	2.96
149119	<1	<5	<5	2.67	20	5.78	6.72	3.15
149120	IS	IS	IS	1.69	6440	24.2	0.10	1.19
149121	1	<5	<5	0.92	10	5.98	8.21	2.25
149122	2	<5	<5	1.10	<10	7.49	7.11	2.85
149123	<1	<5	<5	1.49	<10	9.38	5.58	4.19
149124	<1	<5	<5	1.32	<10	13.7	3.55	6.02
149125	1	<5	<5	2.29	20	5.70	4.57	2.90
149126	9	<5	<5	2.57	20	6.71	6.89	3.55
149127	4	<5	<5	2.91	20	6.09	5.07	3.49
149128	<1	<5	<5	2.04	20	5.97	7.50	2.98
149129	2	<5	<5	1.87	20	6.63	6.94	3.35
149130	<1	<5	<5	0.80	20	6.86	6.86	2.68
149131	<1	<5	<5	0.71	30	4.43	9.45	1.81
149132	3	5	<5	5.79	20	3.02	4.33	3.80
149133	2	<5	<5	1.12	20	4.79	8.27	2.08
149134	<1	5	<5	1.74	<10	8.09	3.67	3.97
149135	1	<5	<5	2.49	<10	5.47	8.03	2.90
149136	1	<5	<5	3.33	<10	6.73	5.30	3.97
149136 Rpt	2	<5	<5	3.39	<10	6.80	6.09	4.05
149137	1	<5	<5	2.16	<10	8.38	5.88	4.09
149138	<1	<5	<5	1.19	20	6.39	7.49	2.82
149139	<1	<5	<5	2.04	20	6.00	6.58	3.08
149141	<1	<5	<5	1.11	20	6.43	7.30	2.97
149142	<1	<5	<5	1.80	<10	8.46	5.17	4.24
149143	<1	<5	<5	2.43	<10	7.42	4.98	3.97
149144	<1	<5	<5	7.47	10	8.01	3.85	6.60
149145	4	<5	<5	0.33	30	1.77	6.99	0.67
149146	10	<5	<5	0.65	30	2.33	10.9	0.64
149146 Rpt	12	<5	<5	0.66	40	2.37	11.2	0.65
149147	14	<5	<5	0.58	40	3.51	10.1	1.38



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	Au1 ppb	Pt ppb	Pd ppb	Ca %	Cr ppm	Fe %	K %	Mg %
Detection Limit	1	5	5	0.01	10	0.01	0.01	0.01
Std Nominal	860	910	690	2.73	80	5.43	3.07	1.54
Determined	850	905	685	2.70	60	5.41	3.09	1.53
149148	7	<5	<5	0.63	30	1.28	6.02	0.38
149149	2	<5	<5	0.40	20	1.29	5.53	0.26
149150	4	<5	<5	0.82	20	2.41	10.1	1.02
149151	2	<5	<5	1.12	20	3.80	8.79	1.61
149152	2	<5	<5	1.71	20	4.89	8.59	2.47
149153	<1	<5	<5	1.42	20	6.75	4.02	3.23
Std Nominal	2.42M			0.40	600	1.29	0.18	0.33
Determined	2.43M	<5	<5	0.40	320	1.34	0.18	0.32
149154	1	<5	<5	0.11	30	2.31	4.64	0.45
149155	10	<5	<5	0.60	40	5.04	4.63	1.93
149156	5	<5	<5	0.77	30	10.6	4.54	5.08
149156 Rpt	4	<5	<5	0.78	40	10.6	4.72	5.12
149157	9	<5	<5	0.63	40	6.42	7.79	2.70
149158	2	<5	<5	0.08	20	1.80	2.87	0.67
149159	5	<5	<5	4.12	30	4.16	6.20	2.97
149160	IS	IS	IS	1.70	6880	24.2	0.11	1.21
149161	2	<5	<5	3.61	40	4.25	5.98	2.61
149162	2	<5	<5	2.65	40	4.99	3.27	2.44
149163	2	<5	<5	0.64	20	5.32	6.98	1.98
149164	5	<5	<5	0.64	20	6.32	3.49	2.22
149165	1	<5	<5	1.47	20	6.24	7.80	2.71
149166	1	<5	<5	0.95	20	5.52	8.08	2.17
149167	<1	<5	<5	0.67	20	4.43	8.01	1.64
149168	2	<5	<5	0.37	20	3.21	4.92	1.13
149169	9	<5	<5	7.64	20	5.38	4.55	5.30
149170	1	<5	<5	4.29	<10	5.96	6.10	3.90
149171	<1	<5	<5	2.84	<10	9.52	5.76	4.51
149172	2	<5	<5	1.86	<10	8.00	5.72	4.06
149173	2	<5	<5	0.09	40	5.90	4.21	0.28
149174	6	<5	<5	0.87	40	3.86	9.54	1.18
149175	4	<5	<5	0.78	40	9.79	5.39	4.45
149176	<1	<5	<5	1.10	30	9.47	5.31	4.93
149177	4	<5	<5	0.61	30	2.98	8.58	1.10
149177 Rpt	6	<5	<5	0.61	40	2.95	8.96	1.08
149178	<1	<5	<5	0.09	20	1.18	2.62	0.39
149179	2	<5	<5	0.11	20	2.79	3.61	1.17
149180	IS	IS	IS	0.07	30	8.84	0.18	2.13
149181	4	<5	<5	4.45	20	4.09	5.80	2.99
149182	<1	<5	<5	4.85	30	4.79	3.52	3.46
149183	<1	<5	<5	2.56	10	3.85	7.43	2.12
149184	<1	<5	<5	2.58	20	7.45	6.48	3.76



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	Au1 ppb	Pt ppb	Pd ppb	Ca %	Cr ppm	Fe %	K %	Mg %
Detection Limit	1	5	5	0.01	10	0.01	0.01	0.01
149185	1	<5	<5	2.14	20	7.05	6.59	3.23
149186	<1	<5	<5	1.19	20	9.41	6.63	3.72
149187	<1	<5	<5	1.17	20	6.25	5.99	2.40
149188	<1	<5	<5	1.05	20	6.29	7.77	2.60
149189	<1	<5	<5	1.46	10	8.69	2.87	4.00
149190	<1	<5	<5	1.40	10	8.58	5.49	4.01
149191	5	<5	<5	0.56	30	4.67	7.50	1.13
149192	9	<5	<5	0.65	40	7.84	6.64	3.19
149193	12	<5	<5	0.70	40	6.79	7.69	3.12
149194	<1	<5	<5	0.09	10	0.95	2.31	0.27
149195	3	<5	<5	0.15	30	3.41	5.93	1.76
149196	1	<5	<5	3.06	40	4.10	5.68	2.54
149197	2	<5	<5	1.77	40	4.33	7.58	2.22
149197 Rpt	2	<5	<5	1.78	40	4.42	7.98	2.26
149198	1	<5	<5	2.70	40	4.71	4.76	2.34
Std Nominal	4.94M			0.26		1.40	2.03	3.42
Determined	4.98M	<5	<5	0.28	120	1.45	2.01	3.44
149199	<1	<5	<5	2.93	10	6.08	7.45	3.50
149200	<1	<5	<5	2.93	10	6.03	7.25	3.44
149201	1	<5	<5	2.42	20	5.71	7.33	2.94
149202	<1	<5	<5	2.24	20	5.49	6.23	2.61
149203	1	<5	<5	2.30	20	5.52	7.73	2.75
149204	1	<5	<5	0.77	20	5.34	9.03	1.88
149204 Rpt	<1	<5	<5	0.76	20	5.27	8.95	1.85
149205	2	<5	<5	2.13	20	3.84	9.24	2.23
149206	4	<5	<5	4.02	30	4.26	4.95	3.61
149207	2	<5	<5	1.41	<10	4.68	8.46	2.34
149208	1	<5	<5	1.54	<10	7.08	6.88	3.48
149209	<1	<5	<5	0.79	<10	10.9	4.76	4.95
149210	<1	<5	<5	1.21	<10	9.79	3.64	4.80
149211	6	<5	<5	0.57	60	2.59	2.67	0.93
149212	12	<5	<5	0.50	50	4.55	1.98	2.09
149213	35	<5	<5	0.67	50	5.82	4.92	2.24
149214	2	<5	<5	0.49	20	2.19	6.70	0.83
149215	4	<5	<5	0.13	20	2.19	4.07	1.07
149216	1	5	<5	0.13	10	1.45	2.77	0.65
149217	2	<5	<5	2.70	20	2.97	4.97	2.21
149217 Rpt	1	<5	<5	2.69	20	2.93	4.80	2.19
149218	2	<5	<5	4.05	30	4.14	6.19	2.87
149219	<1	<5	<5	4.01	40	4.29	6.38	2.79
149220	IS	IS	IS	1.73	6450	24.7	0.11	1.23
149221	<1	<5	<5	3.83	60	4.60	3.82	2.70
149222	1	<5	<5	5.07	30	4.42	5.92	3.35



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	Au1 ppb	Pt ppb	Pd ppb	Ca %	Cr ppm	Fe %	K %	Mg %
Detection Limit	1	5	5	0.01	10	0.01	0.01	0.01
149223	2	<5	<5	4.72	10	5.73	6.87	3.71
149223 Rpt	1	<5	<5	4.67	10	5.64	6.08	3.68
149224	<1	<5	<5	3.17	10	5.56	7.76	3.10
149225	1	<5	<5	2.45	10	8.40	6.01	4.32
149226	<1	<5	<5	2.79	20	7.19	6.96	3.77
Std Nominal	52	45	45	5.91	230	9.63	0.60	4.05
Determined	53	45	45	5.94	170	9.60	0.61	4.04
149227	<1	<5	<5	3.13	20	6.85	6.52	3.73
149228	1	<5	<5	2.45	20	6.50	7.23	3.26
149229	<1	<5	<5	1.44	20	6.46	8.17	2.72
149230	<1	<5	<5	3.27	10	6.89	6.06	4.25
149231	<1	<5	<5	1.05	10	2.86	4.47	1.31
149232	2	<5	<5	0.25	20	3.27	4.51	1.13
149233	3	<5	<5	2.71	10	5.36	7.81	2.83
149233 Rpt	4	<5	<5	2.74	10	5.42	7.94	2.85
149234	1	<5	<5	1.79	<10	8.77	6.39	4.01
149235	1	<5	<5	1.11	<10	10.9	3.46	4.59
149236	<1	<5	<5	1.46	<10	11.9	4.58	5.48
149237	1	<5	<5	4.58	10	9.16	4.90	5.15
149238	<1	<5	<5	1.02	10	8.90	6.84	3.57
149239	<1	<5	<5	1.27	20	8.29	6.87	3.34
149240	IS	IS	IS	0.07	20	8.82	0.18	2.09
149241	<1	<5	<5	2.43	20	6.07	7.83	2.91
149242	<1	<5	<5	2.22	20	6.42	7.60	2.98
149243	<1	<5	<5	2.06	10	6.73	7.60	3.21
149244	<1	<5	<5	1.85	10	5.52	8.80	2.47
Std Nominal	1.37M			2.48	170	8.65	2.35	1.71
Determined	1.38M	<5	<5	2.48	140	8.34	2.35	1.68
149245	1	<5	<5	2.55	20	4.28	3.86	2.19
149246	1	<5	<5	0.18	20	2.92	2.96	0.95
149247	4	<5	<5	0.95	30	5.58	7.57	2.12
149248	<1	<5	<5	1.18	<10	8.79	6.63	3.98
149249	<1	<5	<5	3.04	<10	8.12	5.32	4.42
149250	<1	<5	<5	1.70	<10	13.0	3.85	6.10
149251	1	<5	<5	2.46	<10	10.0	5.45	4.86
149252	1	<5	<5	0.14	10	1.06	2.67	0.21
149253	4	<5	<5	0.11	20	1.96	5.02	0.88
149254	<1	<5	<5	0.09	<10	1.16	2.11	0.33
149255	<1	<5	<5	1.82	10	8.65	5.57	3.99
149255 Rpt	<1	<5	<5	1.80	10	8.61	5.77	3.96
149256	<1	<5	<5	2.48	10	6.47	7.20	2.95
149257	<1	<5	<5	1.84	10	7.53	6.23	3.17
149258	1	<5	<5	3.19	10	5.38	5.45	2.87



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	Au1 ppb	Pt ppb	Pd ppb	Ca %	Cr ppm	Fe %	K %	Mg %
Detection Limit	1	5	5	0.01	10	0.01	0.01	0.01
149259	1	<5	<5	2.31	20	8.22	5.17	4.31
149260	<1	<5	<5	2.28	10	8.36	5.05	4.34
149261	<1	<5	<5	4.32	10	5.83	6.62	3.62
149262	<1	<5	<5	4.12	10	5.24	6.96	3.50
Std Nominal	860	910	690	2.73	80	5.43	3.07	1.54
Determined	882	915	675	2.77	60	5.49	3.04	1.59
149263	<1	<5	<5	3.56	20	5.26	6.14	3.20
149264	2	<5	<5	10.9	20	5.77	3.63	6.89
149265	3	<5	<5	4.17	<10	6.52	6.29	3.63
149266	<1	<5	<5	3.12	<10	6.12	7.31	3.33
149267	<1	<5	<5	1.07	<10	6.58	8.09	2.55
149268	<1	<5	<5	1.40	<10	12.9	4.37	5.46
149269	<1	<5	<5	2.58	<10	11.0	4.78	5.25
149270	<1	<5	<5	0.77	20	2.49	9.93	0.88
149271	1	<5	<5	1.11	20	4.42	8.53	2.02
149272	<1	<5	<5	0.75	20	3.73	10.1	1.35
149273	1	<5	<5	1.49	20	3.31	9.99	1.51
149274	<1	<5	<5	2.35	20	5.08	8.11	2.69
149274 Rpt	1	<5	<5	2.38	20	5.09	7.82	2.71
149275	<1	<5	<5	1.69	20	4.72	9.07	2.13
149276	2	<5	<5	8.01	20	7.13	4.74	5.78
149277	2	<5	<5	6.81	30	6.90	5.24	5.22
149278	2	<5	<5	5.87	30	5.90	6.16	4.53
149279	2	<5	<5	2.28	40	5.68	7.76	2.83
149280	IS	IS	IS	1.69	6610	24.4	0.12	1.20
149281	<1	<5	<5	4.65	20	4.89	7.80	3.47
149282	3	<5	<5	6.55	10	3.63	6.34	3.65
149283	3	<5	<5	4.09	10	5.64	6.26	3.55
149284	2	<5	<5	3.52	<10	6.93	4.14	3.76
149284 Rpt	1	<5	<5	3.55	<10	6.94	4.15	3.77
149285	<1	<5	<5	2.80	10	8.34	4.35	3.96
149286	1	<5	<5	6.46	10	6.26	5.16	4.76
149287	2	<5	<5	4.90	10	4.15	2.48	3.32
149288	<1	<5	<5	1.96	10	2.70	0.70	1.50
149289	1	<5	<5	2.39	30	4.31	6.70	2.61
149290	<1	<5	<5	3.43	30	4.46	5.70	2.78
149291	<1	<5	<5	3.35	30	4.31	5.09	2.59
149292	1	<5	<5	2.81	30	3.71	5.57	2.44
149293	<1	<5	<5	2.71	20	3.32	5.40	2.36
149294	1	<5	<5	2.73	20	3.77	5.07	2.44
149295	3	<5	<5	3.98	20	4.59	5.31	3.32
149296	3	<5	<5	3.95	30	3.91	4.18	2.89
149296 Rpt	1	<5	<5	3.93	20	3.93	4.34	2.92



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	Au1 ppb	Pt ppb	Pd ppb	Ca %	Cr ppm	Fe %	K %	Mg %
Detection Limit	1	5	5	0.01	10	0.01	0.01	0.01
149297	1	<5	<5	4.22	20	3.71	4.79	2.79
149298	3	<5	<5	4.09	30	4.46	4.04	2.94
149299	4	<5	<5	4.42	30	5.05	4.99	3.38
149299 Rpt	4	<5	<5	4.50	30	5.13	5.10	3.45
149300	IS	IS	IS	0.06	40	8.99	0.17	2.20
149301	2	<5	<5	0.22	40	6.07	4.58	2.40
149302	1	<5	<5	2.87	20	4.10	5.02	2.78
149303	<1	<5	<5	3.66	20	3.94	5.46	2.85
149304	<1	<5	<5	3.57	30	3.91	5.11	2.81
149305	<1	<5	<5	3.41	30	3.77	5.15	2.75
149306	<1	<5	<5	2.99	30	3.78	5.32	2.53
Std Nominal	2.42M			0.40	600	1.29	0.18	0.33
Determined	2.42M	<5	<5	0.41	450	1.30	0.18	0.34
149307	2	<5	<5	2.92	40	3.18	3.49	2.36
149308	2	<5	<5	4.23	30	3.45	4.99	2.87
149309	<1	<5	<5	3.47	30	4.60	5.24	2.51
149310	<1	<5	<5	5.67	20	4.00	3.29	3.18
149311	1	<5	<5	5.74	10	6.31	7.00	3.84
149312	<1	<5	<5	2.77	<10	11.3	5.87	4.36
149313	2	<5	<5	3.12	10	9.74	4.64	4.53
149314	<1	<5	<5	0.11	20	1.37	2.26	0.42
149315	1	<5	<5	0.69	30	2.87	4.22	1.47
149315 Rpt	1	5	<5	0.70	30	2.98	4.27	1.51
149316	3	<5	<5	3.59	30	4.46	5.86	2.98
149317	<1	<5	<5	4.55	30	4.02	5.75	3.12
149318	<1	<5	<5	4.89	20	4.14	6.24	3.21
149319	<1	<5	<5	5.08	30	5.69	6.50	3.69
149320	1	<5	<5	5.21	20	5.74	4.03	3.71
149321	2	<5	<5	6.47	10	4.97	6.71	4.22
149322	4	<5	<5	4.05	20	5.48	7.31	3.32
149323	3	<5	<5	1.51	10	7.61	5.05	3.25
149324	<1	<5	<5	1.78	10	10.1	4.08	4.62
149325	<1	<5	<5	1.10	20	9.27	5.92	3.71
149326	<1	<5	<5	0.89	20	6.38	7.26	2.53
149327	<1	<5	<5	0.76	20	8.36	3.68	3.10
149328	<1	<5	<5	0.75	20	8.37	7.59	2.79
149329	3	<5	<5	0.76	20	6.23	8.77	2.17
149330	2	<5	<5	4.00	20	5.29	7.47	3.51
149331	4	<5	<5	4.91	20	4.97	7.01	3.83
Std Nominal	4.94M			0.26		1.40	2.03	3.42
Determined	4.87M	<5	<5	0.27	170	1.43	2.00	3.43
149332	3	<5	<5	4.00	20	3.84	6.42	2.93
149333	<1	<5	<5	8.43	20	4.14	2.09	5.24



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	Au1 ppb	Pt ppb	Pd ppb	Ca %	Cr ppm	Fe %	K %	Mg %
Detection Limit	1	5	5	0.01	10	0.01	0.01	0.01
149334	<1	<5	<5	2.89	30	4.56	3.21	2.60
149335	Sample Not Received							
149336	6	<5	<5	0.28	50	10.0	4.01	1.86
149337	<1	<5	<5	0.70	30	8.67	6.10	3.50
149338	2	<5	<5	0.86	30	3.26	10.1	1.09
149338 Rpt	5	<5	<5	0.86	30	3.28	9.80	1.07
149339	2	<5	<5	0.24	10	1.35	4.70	0.38
149340	IS	IS	IS	1.72	6270	24.2	0.10	1.20
149341	4	<5	<5	3.53	40	4.62	5.94	3.30
149342	2	<5	<5	3.18	30	3.96	6.17	2.77
149343	<1	<5	<5	4.19	30	3.84	6.13	2.91
149344	<1	<5	<5	4.06	10	6.93	7.39	3.13
149344 Rpt	1	<5	<5	4.04	10	6.96	7.54	3.19
149345	<1	<5	<5	2.90	10	11.6	4.91	5.41
149346	<1	<5	<5	1.66	10	8.98	6.78	3.86
149347	<1	<5	<5	1.77	10	10.2	5.09	4.61
149348	3	<5	<5	1.05	20	7.15	8.02	2.87
149349	1	5	<5	4.32	<10	7.78	5.80	4.80
149350	<1	<5	<5	2.82	<10	7.15	7.18	3.69
149351	<1	<5	<5	1.58	<10	9.93	5.86	4.38
149352	<1	<5	<5	1.01	10	9.18	6.47	3.60
149353	1	<5	<5	0.28	30	5.22	8.62	0.41
149354	3	<5	<5	0.20	20	2.81	5.31	0.79
149355	6	<5	<5	0.95	20	2.80	5.78	1.60
149356	1	<5	<5	0.15	10	2.01	3.35	0.54
149357	4	<5	<5	1.99	20	3.93	4.98	1.65
149357 Rpt	4	<5	<5	2.02	20	3.96	4.95	1.66
149358	2	<5	<5	4.07	30	3.97	4.85	2.72
149359	<1	<5	<5	4.87	30	3.77	5.70	3.07
149360	IS	IS	IS	1.70	6150	24.0	0.13	1.20
Std Nominal	52	45	45	5.91	230	9.63	0.60	4.05
Determined	53	50	45	5.92	160	9.51	0.60	4.00
149361	<1	<5	<5	4.46	20	4.41	6.18	2.88
149362	1	<5	<5	4.22	30	4.56	6.39	2.71
149363	<1	<5	<5	4.55	20	4.42	7.30	2.98
149364	<1	<5	<5	3.25	10	7.68	6.94	3.58
149365	<1	<5	<5	1.45	10	9.53	6.70	3.78
149366	<1	<5	<5	1.21	20	9.27	6.91	3.59
149367	<1	<5	<5	1.25	10	8.28	7.42	2.89
149368	<1	<5	<5	2.67	<10	12.3	4.65	4.76
149369	<1	<5	<5	1.32	<10	11.7	4.38	5.03
149370	<1	<5	<5	0.88	<10	11.2	3.90	4.97



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	Au1 ppb	Pt ppb	Pd ppb	Ca %	Cr ppm	Fe %	K %	Mg %
Detection Limit	1	5	5	0.01	10	0.01	0.01	0.01
149371	Sample Not Received							
149372	Sample Not Received							
149373	Sample Not Received							
149374	Sample Not Received							
149375	Sample Not Received							
149376	Sample Not Received							
149377	Sample Not Received							
149378	Sample Not Received							
149379	Sample Not Received							
149380	Sample Not Received							
149381	Sample Not Received							
149382	Sample Not Received							
149383	Sample Not Received							
149384	Sample Not Received							
149385	Sample Not Received							
149386	Sample Not Received							
149387	Sample Not Received							
149388	Sample Not Received							
149140	1	<5	<5	2.05	20	6.43	7.75	3.23
149140 Rpt	<1	<5	<5	1.99	20	6.42	7.69	3.22
Std Nominal	1.37M			2.48	170	8.65	2.35	1.71
Determined	1.36M	<5	<5	2.50	140	8.49	2.34	1.71



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	Mn ppm	Na %	P ppm	S ppm	V ppm	Ag ppm	As ppm	Ba ppm
Detection Limit	2	0.01	50	50	5	0.5	1	1
149072	1240	0.05	600	300	50	<0.5	5	371
149073	1260	0.06	1100	700	90	<0.5	21	406
149074	1890	0.05	350	200	45	<0.5	43	220
149075	1950	0.07	500	200	65	<0.5	5	364
149076	2080	0.05	700	950	80	<0.5	60	285
149077	1990	0.03	2300	2000	250	<0.5	63	791
149078	812	0.03	2800	550	280	<0.5	7	412
149079	934	0.04	2400	150	265	<0.5	3	473
149080	1280	0.33	100	750	145	<0.5	18	138
149081	1610	0.04	2450	800	255	<0.5	11	362
149082	1340	0.03	2600	950	265	<0.5	6	378
149083	554	0.03	2650	1150	265	<0.5	4	439
149084	366	0.04	3050	50	170	<0.5	18	593
149084 Rpt	362	0.04	3000	50	165	<0.5	18	612
149085	1120	0.04	2600	1250	265	<0.5	13	449
149086	1660	0.04	2400	1800	235	<0.5	13	480
149087	772	0.03	2700	1750	290	<0.5	10	575
149088	560	0.03	2850	1300	295	<0.5	14	637
149089	690	0.03	2800	1000	275	<0.5	14	641
Std Nominal	1070	2.15	1300	1.74%	155	0.5	13	239
Determined	1070	2.16	1300	1.74%	155	0.5	13	236
149090	1200	0.04	2500	1250	185	<0.5	17	592
149091	1460	0.06	1900	1500	210	<0.5	14	527
149092	1470	0.04	1350	1300	175	<0.5	14	425
149093	1230	0.02	2450	750	220	<0.5	2	380
149093 Rpt	1240	0.03	2500	800	230	<0.5	3	360
149094	1080	0.03	2850	800	240	<0.5	4	333
149095	950	0.03	2800	650	245	<0.5	5	372
149096	1640	0.03	2400	300	200	<0.5	1	340
149097	1540	0.04	1000	2950	80	<0.5	26	232
149098	1490	0.04	1100	150	115	<0.5	3	207
149098 Rpt	1520	0.03	1100	100	115	<0.5	2	209
149099	592	0.03	2500	1050	280	<0.5	7	620
149100	86	<0.01	200	8.27%	10	2.5	2880	15
149101	148	0.03	2850	1900	315	<0.5	8	456
149102	150	0.02	2800	1500	340	<0.5	12	643
149103	142	0.02	2700	9550	315	<0.5	57	584
149104	196	0.02	2850	2300	310	<0.5	16	410
149105	626	0.02	2700	2050	295	<0.5	15	459
149106	3280	0.05	1450	850	165	<0.5	29	438
149107	4180	0.07	450	1000	65	<0.5	65	447
149108	1670	0.06	1400	850	175	<0.5	16	708
149109	946	0.02	2600	1450	240	<0.5	18	320



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	Mn ppm	Na %	P ppm	S ppm	V ppm	Ag ppm	As ppm	Ba ppm
Detection Limit	2	0.01	50	50	5	0.5	1	1
149110	630	0.02	3000	2100	270	<0.5	15	323
149111	236	0.02	3100	1450	260	<0.5	5	298
Std Nominal	1180	1.30	600	1.97%	120	6.0	100	132
Determined	1190	1.30	650	2.00%	120	6.0	96	127
149112	1150	0.03	2500	100	250	<0.5	6	1250
149113	718	0.03	2450	3000	295	<0.5	21	418
149114	486	0.03	2600	1950	310	<0.5	12	450
149115	240	0.02	2750	950	335	<0.5	7	937
149116	870	0.03	2650	1150	315	<0.5	14	673
149117	1270	0.03	2400	2250	245	<0.5	19	545
149117 Rpt	1290	0.03	2500	2300	250	<0.5	18	530
149118	984	0.03	2650	2350	245	<0.5	35	769
149119	802	0.03	2650	2850	260	<0.5	40	661
149120	1300	0.32	100	700	150	<0.5	18	138
149121	176	0.04	3300	100	205	<0.5	10	689
149122	262	0.03	3200	350	260	0.5	16	636
149123	380	0.03	3200	1750	255	0.5	15	513
149124	384	0.02	3100	3200	270	<0.5	6	323
149125	640	0.03	2500	1700	215	<0.5	17	589
149126	790	0.03	2400	1550	260	<0.5	15	645
149127	926	0.03	2400	1200	270	<0.5	13	664
149128	508	0.03	2600	2700	265	<0.5	21	708
149129	424	0.03	2650	2300	290	<0.5	28	630
149130	112	0.03	2850	1550	340	<0.5	15	681
149131	104	0.09	2200	3650	205	<0.5	84	927
149132	1760	0.09	650	6050	85	1.0	142	546
149133	388	0.06	2250	1000	200	<0.5	57	936
149134	494	0.03	2850	650	245	<0.5	35	565
149135	684	0.03	3050	850	235	<0.5	15	598
149136	1100	0.03	2700	1050	235	<0.5	12	432
149136 Rpt	1110	0.03	2750	1000	240	<0.5	11	428
149137	682	0.03	2900	300	255	<0.5	8	479
149138	246	0.03	2850	2300	250	<0.5	15	644
149139	518	0.03	2600	1850	270	<0.5	11	714
149141	216	0.03	2650	2100	290	<0.5	16	683
149142	480	0.03	2950	800	255	<0.5	11	481
149143	728	0.03	3050	850	230	<0.5	8	548
149144	2940	0.03	1450	1000	175	<0.5	6	291
149145	88	0.09	1400	100	70	<0.5	35	869
149146	40	0.04	2800	100	160	0.5	87	1230
149146 Rpt	40	0.04	2850	100	165	0.5	92	1270
149147	32	0.04	2700	100	200	0.5	198	812
Std Nominal	552	2.04	1000	6650	125	1.5	19	932



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	Mn ppm	Na %	P ppm	S ppm	V ppm	Ag ppm	As ppm	Ba ppm
Detection Limit	2	0.01	50	50	5	0.5	1	1
Determined	558	2.09	1000	6600	130	1.5	19	944
149148	46	0.06	2750	50	125	<0.5	26	901
149149	86	0.05	1750	100	45	<0.5	14	735
149150	72	0.05	2650	3350	90	0.5	73	699
149151	144	0.04	2650	7350	140	<0.5	64	637
149152	280	0.03	2600	6100	175	0.5	70	550
149153	272	0.03	2600	2350	240	<0.5	25	455
Std Nominal	232		1850					
Determined	230	0.04	1800	250	30	<0.5	7	44
149154	168	0.07	550	100	70	<0.5	8	505
149155	114	0.05	2600	100	185	<0.5	20	749
149156	244	0.02	2450	50	265	<0.5	8	618
149156 Rpt	246	0.02	2450	100	270	<0.5	9	628
149157	96	0.03	2700	50	285	<0.5	30	914
149158	348	0.05	350	100	30	<0.5	16	334
149159	1760	0.07	500	750	55	<0.5	4	437
149160	1270	0.33	100	750	150	<0.5	17	146
149161	1390	0.07	500	100	65	<0.5	3	445
149162	1090	0.07	600	150	90	<0.5	3	400
149163	82	0.04	2700	1750	295	<0.5	8	608
149164	62	0.03	2900	1900	300	<0.5	17	448
149165	298	0.03	2650	1050	280	<0.5	29	729
149166	146	0.03	2900	1950	320	<0.5	65	764
149167	52	0.03	3000	2300	280	<0.5	60	801
149168	78	0.05	1400	2300	120	<0.5	36	521
149169	3230	0.07	550	2400	70	<0.5	21	500
149170	1710	0.03	2650	100	220	<0.5	32	1060
149171	966	0.03	3000	1000	250	<0.5	24	613
149172	532	0.03	3100	1050	265	<0.5	14	492
149173	632	0.05	350	50	160	<0.5	15	443
149174	276	0.06	3800	50	240	<0.5	32	1160
149175	272	0.02	2450	<50	275	<0.5	23	577
149176	366	0.02	2600	50	275	<0.5	16	745
149177	64	0.05	2600	50	160	<0.5	21	986
149177 Rpt	66	0.06	2600	<50	160	<0.5	19	1010
149178	62	0.04	350	100	25	<0.5	10	252
149179	80	0.06	450	1400	55	<0.5	46	413
149180	90	<0.01	200	8.24%	10	2.5	2930	16
149181	1730	0.07	550	100	55	<0.5	4	411
149182	1860	0.07	950	1500	115	<0.5	9	428
149183	732	0.03	3200	350	265	<0.5	12	733
149184	898	0.03	2500	750	280	<0.5	12	451
149185	792	0.03	2750	1900	290	<0.5	30	636



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	Mn ppm	Na %	P ppm	S ppm	V ppm	Ag ppm	As ppm	Ba ppm
Detection Limit	2	0.01	50	50	5	0.5	1	1
149186	398	0.03	2750	2150	325	<0.5	17	539
149187	270	0.03	2750	1550	310	<0.5	20	725
149188	224	0.04	2850	1750	315	<0.5	21	737
149189	410	0.03	2700	1100	285	<0.5	14	665
149190	416	0.03	2750	1250	275	<0.5	16	557
149191	150	0.06	2300	150	195	<0.5	38	1050
149192	80	0.03	2750	100	270	<0.5	130	930
149193	68	0.03	2900	50	310	<0.5	21	1140
149194	62	0.05	300	50	15	<0.5	12	259
149195	116	0.06	550	850	65	<0.5	34	524
149196	1150	0.07	550	200	65	<0.5	6	473
149197	706	0.07	700	1600	80	<0.5	20	534
149197 Rpt	706	0.08	700	1600	85	<0.5	20	555
149198	1180	0.07	600	500	85	<0.5	4	468
Std Nominal	620		550					
Determined	616	0.06	500	350	135	<0.5	30	161
149199	1080	0.03	2600	1400	245	<0.5	8	587
149200	1070	0.03	2500	1450	245	<0.5	10	561
149201	688	0.03	2850	1250	265	<0.5	10	679
149202	642	0.03	2900	850	280	<0.5	10	758
149203	566	0.03	2950	700	280	<0.5	26	813
149204	64	0.03	3200	1650	240	1.0	69	800
149204 Rpt	62	0.03	3150	1600	240	1.0	72	832
149205	680	0.08	2200	3250	160	0.5	74	924
149206	1220	0.08	900	900	125	<0.5	31	651
149207	320	0.04	3100	250	195	<0.5	22	991
149208	288	0.03	3350	2600	225	<0.5	37	722
149209	204	0.03	3100	850	240	<0.5	16	731
149210	432	0.03	2600	850	220	<0.5	2	603
149211	86	0.04	2900	50	225	<0.5	25	1140
149212	42	0.03	2400	50	240	<0.5	29	654
149213	58	0.03	2850	100	255	<0.5	23	894
149214	72	0.04	2000	100	115	<0.5	13	762
149215	62	0.05	450	550	45	<0.5	20	363
149216	56	0.05	400	50	30	<0.5	11	276
149217	1890	0.06	400	50	45	<0.5	6	414
149217 Rpt	1880	0.06	400	50	45	<0.5	6	417
149218	1650	0.07	550	50	60	<0.5	4	418
149219	1520	0.07	550	50	60	<0.5	3	399
149220	1310	0.34	100	700	150	<0.5	18	141
149221	1600	0.09	550	100	75	<0.5	11	347
149222	1910	0.07	550	600	85	<0.5	20	394
149223	2190	0.03	2250	750	280	<0.5	107	710



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	Mn ppm	Na %	P ppm	S ppm	V ppm	Ag ppm	As ppm	Ba ppm
Detection Limit	2	0.01	50	50	5	0.5	1	1
149223 Rpt	2160	0.03	2250	700	275	<0.5	106	689
149224	964	0.03	2500	2150	250	<0.5	37	621
149225	960	0.03	2500	1850	265	<0.5	7	635
149226	978	0.03	2650	1200	270	<0.5	8	669
Std Nominal	1070	2.15	1300	1.74%	155	0.5	13	239
Determined	1090	2.20	1300	1.72%	155	0.5	13	245
149227	1040	0.04	2450	1650	285	<0.5	7	818
149228	826	0.03	2650	1500	275	<0.5	10	695
149229	344	0.03	2900	2000	300	<0.5	31	778
149230	1200	0.03	2500	1450	250	<0.5	14	753
149231	270	0.04	1700	2000	140	<0.5	16	600
149232	120	0.07	450	4950	55	0.5	40	473
149233	1100	0.04	2400	800	190	<0.5	24	858
149233 Rpt	1120	0.04	2450	750	195	<0.5	25	868
149234	604	0.02	3050	100	250	<0.5	28	601
149235	354	0.02	2950	1000	260	<0.5	24	405
149236	484	0.02	3000	900	300	<0.5	13	565
149237	2080	0.02	2250	2150	390	<0.5	15	426
149238	304	0.03	2750	2550	320	<0.5	40	524
149239	346	0.03	2800	1300	315	<0.5	8	602
149240	86	<0.01	200	8.25%	10	2.5	3060	18
149241	820	0.03	2750	1950	290	<0.5	20	721
149242	668	0.03	2700	1650	300	<0.5	28	722
149243	658	0.03	2700	1600	285	<0.5	21	738
149244	498	0.03	3050	1250	275	<0.5	43	852
Std Nominal	1180	1.30	600	1.97%	120	6.0	100	132
Determined	1180	1.28	650	1.95%	120	6.0	104	136
149245	1210	0.06	1050	500	95	<0.5	30	525
149246	110	0.06	350	1300	35	<0.5	26	350
149247	308	0.06	2050	2300	190	<0.5	47	774
149248	286	0.05	3200	1100	265	<0.5	21	486
149249	1060	0.04	3050	1100	255	<0.5	20	496
149250	640	0.02	3000	800	285	<0.5	10	1070
149251	822	0.02	3000	1700	270	<0.5	19	482
149252	120	0.04	550	100	25	<0.5	5	309
149253	108	0.06	450	150	60	<0.5	72	403
149254	94	0.04	350	50	15	<0.5	7	241
149255	658	0.03	2650	850	300	<0.5	20	586
149255 Rpt	662	0.03	2700	850	295	<0.5	18	580
149256	948	0.03	2500	550	280	<0.5	14	590
149257	586	0.03	2500	2450	300	<0.5	28	596
149258	1150	0.04	2450	1000	270	<0.5	12	783
149259	946	0.03	2300	1000	255	<0.5	7	529



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	Mn ppm	Na %	P ppm	S ppm	V ppm	Ag ppm	As ppm	Ba ppm
Detection Limit	2	0.01	50	50	5	0.5	1	1
149260	948	0.03	2250	1050	260	<0.5	6	495
149261	1710	0.03	2300	900	260	<0.5	15	671
149262	1360	0.03	2350	1300	250	0.5	16	636
Std Nominal	552	2.04	1000	6650	125	1.5	19	932
Determined	560	2.03	1050	6600	130	1.5	19	940
149263	1470	0.06	2000	700	180	<0.5	8	719
149264	4340	0.06	350	500	70	<0.5	10	377
149265	1610	0.03	2500	950	240	<0.5	13	743
149266	922	0.03	2950	1250	230	<0.5	20	518
149267	180	0.03	3350	150	225	<0.5	10	620
149268	392	0.02	3150	950	275	<0.5	18	481
149269	908	0.03	3050	750	280	<0.5	8	794
149270	58	0.04	3300	100	155	<0.5	35	747
149271	268	0.03	2950	50	240	<0.5	35	782
149272	78	0.04	3200	50	190	<0.5	54	766
149273	386	0.04	2950	50	135	<0.5	36	722
149274	592	0.03	2700	1500	220	<0.5	13	708
149274 Rpt	600	0.03	2700	1500	220	<0.5	14	705
149275	782	0.04	2650	150	180	<0.5	33	855
149276	3340	0.06	500	1200	95	<0.5	52	468
149277	2690	0.06	550	850	110	<0.5	28	526
149278	2170	0.06	600	1750	95	<0.5	8	491
149279	710	0.07	2400	1750	185	<0.5	4	661
149280	1280	0.33	100	700	150	<0.5	18	144
149281	1460	0.03	2250	750	255	<0.5	8	604
149282	1950	0.04	1850	400	165	<0.5	6	432
149283	1480	0.03	2050	200	195	<0.5	12	450
149284	1420	0.03	1550	400	170	<0.5	15	370
149284 Rpt	1410	0.03	1600	400	170	<0.5	15	362
149285	1130	0.03	1750	950	195	<0.5	7	275
149286	2500	0.04	1750	800	170	<0.5	11	299
149287	1410	0.03	700	550	75	<0.5	6	227
149288	754	0.02	150	250	20	<0.5	2	88
149289	850	0.06	1000	2700	75	<0.5	73	595
149290	1200	0.05	800	800	60	<0.5	14	511
149291	1070	0.05	550	300	55	<0.5	4	446
149292	886	0.05	550	600	60	<0.5	4	495
149293	872	0.05	550	550	50	<0.5	2	475
149294	940	0.05	550	250	55	<0.5	3	477
149295	1430	0.04	1150	750	120	<0.5	5	467
149296	1490	0.05	600	350	70	<0.5	1	532
149296 Rpt	1520	0.05	600	350	70	<0.5	2	524
149297	1640	0.04	1000	250	85	<0.5	1	378



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	Mn ppm	Na %	P ppm	S ppm	V ppm	Ag ppm	As ppm	Ba ppm
Detection Limit	2	0.01	50	50	5	0.5	1	1
149298	1600	0.05	750	500	80	<0.5	1	391
149299	1700	0.04	1150	500	115	<0.5	2	323
149299 Rpt	1720	0.05	1150	500	115	<0.5	2	333
149300	88	0.01	200	8.38%	10	2.5	2860	16
149301	118	0.06	650	1250	115	<0.5	12	551
149302	980	0.05	500	1600	65	<0.5	8	419
149303	1130	0.05	600	300	60	<0.5	5	454
149304	1050	0.06	600	350	60	<0.5	3	448
149305	1030	0.06	600	200	60	1.0	2	443
149306	932	0.06	550	200	55	<0.5	2	416
Std Nominal	232		1850					
Determined	240	0.05	1800	250	30	<0.5	5	45
149307	940	0.05	550	200	55	<0.5	2	390
149308	1500	0.05	1050	550	65	<0.5	2	436
149309	1440	0.07	550	150	70	<0.5	2	367
149310	1950	0.04	550	2700	95	<0.5	33	320
149311	1710	0.03	2150	2400	220	<0.5	5	488
149312	850	0.03	2300	1000	280	0.5	4	406
149313	1540	0.03	2200	350	240	<0.5	2	330
149314	112	0.04	300	750	15	<0.5	40	211
149315	326	0.05	400	1250	40	0.5	41	373
149315 Rpt	332	0.06	400	1300	40	1.0	43	383
149316	1420	0.06	550	600	60	<0.5	4	401
149317	1720	0.07	500	100	60	<0.5	3	360
149318	1910	0.07	500	200	60	<0.5	3	361
149319	1990	0.07	600	200	90	<0.5	2	401
149320	1970	0.07	600	200	90	<0.5	3	384
149321	2440	0.04	2200	1200	190	<0.5	7	549
149322	1150	0.03	2450	1800	250	<0.5	4	639
149323	364	0.03	2750	2250	265	<0.5	8	448
149324	656	0.03	2650	1750	280	<0.5	13	461
149325	236	0.02	2900	2600	310	<0.5	12	579
149326	132	0.03	2900	2100	295	<0.5	5	607
149327	96	0.02	3150	3000	275	<0.5	21	476
149328	80	0.02	3250	3450	285	0.5	55	576
149329	64	0.03	3250	5100	275	1.0	96	676
149330	1640	0.09	1400	6800	125	0.5	93	684
149331	1920	0.06	1750	3400	145	<0.5	24	710
Std Nominal	620		550					
Determined	616	0.06	550	250	135	1.0	14	153
149332	1100	0.05	2900	2150	165	<0.5	6	610
149333	2390	0.03	350	600	45	<0.5	1	155
149334	1120	0.05	400	600	50	<0.5	2	251



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	Mn ppm	Na %	P ppm	S ppm	V ppm	Ag ppm	As ppm	Ba ppm
Detection Limit	2	0.01	50	50	5	0.5	1	1
149335	Sample Not Received							
149336	836	0.03	1300	100	265	0.5	193	1010
149337	272	0.03	2650	100	250	<0.5	22	1100
149338	140	0.04	3250	50	150	<0.5	61	929
149338 Rpt	140	0.04	3300	100	150	<0.5	63	915
149339	74	0.05	950	150	40	<0.5	23	452
149340	1270	0.33	100	750	145	<0.5	17	137
149341	1410	0.07	550	1700	65	<0.5	5	479
149342	1200	0.07	600	500	70	<0.5	4	427
149343	1620	0.07	550	300	60	<0.5	3	396
149344	1300	0.03	2200	1700	230	<0.5	4	435
149344 Rpt	1320	0.03	2200	1700	235	<0.5	5	413
149345	1350	0.03	2700	2600	275	<0.5	28	420
149346	490	0.03	2850	900	265	<0.5	7	516
149347	626	0.03	2600	750	280	<0.5	6	431
149348	206	0.03	2950	1950	310	<0.5	16	628
149349	1390	0.03	2800	1950	235	0.5	4	464
149350	934	0.03	3050	1200	230	<0.5	7	488
149351	416	0.03	3150	750	285	<0.5	3	438
149352	188	0.03	3300	500	335	<0.5	2	464
149353	590	0.05	1500	100	185	<0.5	23	1070
149354	578	0.10	550	100	85	<0.5	8	683
149355	686	0.08	600	50	80	<0.5	6	522
149356	1390	0.06	500	50	30	<0.5	20	380
149357	2470	0.06	400	<50	50	<0.5	10	362
149357 Rpt	2470	0.06	450	50	50	<0.5	10	364
149358	1870	0.07	550	100	60	<0.5	5	364
149359	1890	0.07	500	150	55	<0.5	3	360
149360	1250	0.33	100	800	145	<0.5	15	131
Std Nominal	1070	2.15	1300	1.74%	155	0.5	13	239
Determined	1070	2.18	1300	1.75%	150	0.5	12	230
149361	1970	0.07	550	150	60	<0.5	3	374
149362	1870	0.07	550	150	70	<0.5	2	386
149363	1810	0.05	2050	500	175	<0.5	25	1040
149364	1110	0.03	2500	550	255	<0.5	20	701
149365	442	0.04	2750	1500	285	<0.5	8	581
149366	356	0.03	2800	1150	300	<0.5	5	465
149367	334	0.03	2850	1050	310	<0.5	12	524
149368	1290	0.03	2400	950	235	<0.5	3	289
149369	668	0.03	2850	300	245	<0.5	1	324
149370	204	0.03	2850	600	250	<0.5	2	375
149371	Sample Not Received							



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	Mn ppm	Na %	P ppm	S ppm	V ppm	Ag ppm	As ppm	Ba ppm
Detection Limit	2	0.01	50	50	5	0.5	1	1
149372	Sample Not Received							
149373	Sample Not Received							
149374	Sample Not Received							
149375	Sample Not Received							
149376	Sample Not Received							
149377	Sample Not Received							
149378	Sample Not Received							
149379	Sample Not Received							
149380	Sample Not Received							
149381	Sample Not Received							
149382	Sample Not Received							
149383	Sample Not Received							
149384	Sample Not Received							
149385	Sample Not Received							
149386	Sample Not Received							
149387	Sample Not Received							
149388	Sample Not Received							
149140	484	0.03	2850	2050	270	<0.5	8	618
149140 Rpt	476	0.03	2750	2000	275	<0.5	8	622
Std Nominal	1180	1.30	600	1.97%	120	6.0	100	132
Determined	1170	1.28	600	1.98%	120	6.0	96	132



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	Bi ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm
Detection Limit	0.1	0.5	5	2	0.5	0.5	2	1
149072	0.2	0.5	35	20	13.0	1.0	22	11
149073	0.2	<0.5	205	24	11.0	1.0	50	7
149074	0.1	<0.5	750	38	9.5	2.0	144	7
149075	0.3	<0.5	25	8	12.5	1.0	22	8
149076	0.5	<0.5	1420	60	13.0	10.0	288	10
149077	0.2	<0.5	1610	102	21.0	2.5	332	9
149078	0.2	<0.5	155	16	29.0	0.5	46	4
149079	<0.1	<0.5	75	6	28.5	0.5	24	2
149080	<0.1	<0.5	445	80	11.5	1.0	5060	8
149081	0.1	<0.5	130	106	29.5	<0.5	52	4
149082	0.1	<0.5	60	14	37.0	0.5	32	6
149083	<0.1	<0.5	55	100	49.5	0.5	20	10
149084	<0.1	<0.5	125	22	12.5	0.5	54	3
149084 Rpt	0.1	<0.5	120	20	12.0	1.0	52	3
149085	0.2	<0.5	115	10	10.5	1.0	28	11
149086	0.3	<0.5	225	10	21.0	0.5	34	9
149087	0.2	<0.5	190	22	40.0	0.5	46	8
149088	0.4	<0.5	90	6	42.5	0.5	48	7
149089	0.5	<0.5	65	6	31.0	1.0	48	7
Std Nominal	<0.1	<0.5	155	316	7.5	2.0	6930	3
Determined	0.3	<0.5	155	322	7.5	2.0	6920	3
149090	0.9	<0.5	60	16	18.5	1.5	46	9
149091	0.3	<0.5	70	210	20.0	1.5	48	10
149092	0.4	<0.5	85	26	17.5	2.0	32	9
149093	0.4	<0.5	95	10	21.0	1.0	22	7
149093 Rpt	0.4	<0.5	100	10	20.0	1.0	22	7
149094	0.1	<0.5	90	92	27.0	0.5	22	6
149095	<0.1	<0.5	70	92	27.5	0.5	44	3
149096	<0.1	<0.5	45	6	27.5	1.0	8	3
149097	<0.1	<0.5	45	54	14.5	2.0	8	7
149098	<0.1	<0.5	20	22	8.5	2.0	8	4
149098 Rpt	<0.1	<0.5	20	22	9.0	2.0	6	3
149099	0.1	<0.5	95	6	35.5	<0.5	30	6
149100	46.0	<0.5	2390	3.22%	10.0	10.5	116	436
149101	0.1	<0.5	260	194	47.0	0.5	38	6
149102	<0.1	<0.5	90	10	56.0	1.0	56	6
149103	<0.1	<0.5	95	12	68.0	5.5	52	7
149104	<0.1	<0.5	90	52	59.0	2.0	46	7
149105	0.1	<0.5	110	18	46.0	1.0	36	11
149106	<0.1	<0.5	105	110	23.5	0.5	52	12
149107	0.1	<0.5	340	108	8.0	1.0	176	25
149108	0.3	<0.5	95	22	20.5	0.5	46	9
149109	0.3	<0.5	55	12	40.5	<0.5	28	6



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	Bi ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm
Detection Limit	0.1	0.5	5	2	0.5	0.5	2	1
149110	0.5	<0.5	85	30	45.0	<0.5	32	7
149111	0.5	<0.5	110	556	62.5	<0.5	54	7
Std Nominal	3.0	9.0	45	1500	9.5	67.0	74	521
Determined	2.9	9.0	45	1530	10.0	66.5	72	524
149112	<0.1	<0.5	135	58	20.0	0.5	32	3
149113	0.5	<0.5	180	10	43.5	0.5	44	9
149114	0.3	<0.5	80	8	44.0	<0.5	48	10
149115	<0.1	<0.5	90	24	68.0	1.5	54	4
149116	<0.1	<0.5	70	22	46.0	1.5	46	7
149117	0.3	<0.5	80	26	33.0	2.0	50	10
149117 Rpt	0.3	<0.5	80	24	31.0	2.0	52	11
149118	0.2	0.5	115	80	27.0	3.0	64	11
149119	0.4	0.5	105	50	30.5	1.5	54	11
149120	<0.1	<0.5	435	78	10.0	1.0	4960	8
149121	0.4	<0.5	70	268	23.0	1.0	42	9
149122	0.8	<0.5	115	64	27.0	1.0	74	10
149123	0.5	<0.5	150	198	43.0	1.0	100	8
149124	0.2	<0.5	130	1860	60.0	<0.5	98	4
149125	0.4	<0.5	120	146	28.0	0.5	58	18
149126	0.5	<0.5	120	48	35.0	1.0	56	13
149127	0.3	<0.5	85	20	30.0	1.0	54	14
149128	0.5	<0.5	110	78	32.0	1.5	86	25
149129	0.3	<0.5	130	158	38.5	2.0	88	31
149130	0.6	0.5	110	66	36.5	2.5	78	19
149131	0.2	0.5	585	904	23.0	1.5	296	14
149132	0.4	0.5	1710	1650	10.5	3.5	852	95
149133	0.2	<0.5	150	36	29.0	1.5	74	13
149134	0.1	<0.5	90	8	38.5	0.5	48	10
149135	0.3	<0.5	70	16	23.5	1.0	32	7
149136	0.2	<0.5	120	42	31.5	1.0	58	7
149136 Rpt	0.2	<0.5	120	46	30.5	1.0	60	8
149137	0.4	<0.5	115	6	33.5	0.5	48	9
149138	0.5	<0.5	85	464	35.5	0.5	66	22
149139	0.1	<0.5	80	142	33.0	1.0	66	23
149141	0.3	<0.5	130	66	37.5	1.5	100	25
149142	0.6	<0.5	70	48	43.0	0.5	46	8
149143	0.2	<0.5	70	20	37.0	2.5	48	8
149144	0.2	<0.5	55	64	34.5	0.5	42	7
149145	0.7	<0.5	230	1160	14.0	3.5	148	14
149146	1.1	<0.5	300	1850	25.5	3.5	194	30
149146 Rpt	1.1	<0.5	290	1880	24.5	4.0	198	31
149147	0.6	<0.5	770	1560	30.0	6.0	432	23
Std Nominal	2.6		15	5310	30.5	319	38	24



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	Bi ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm
Detection Limit	0.1	0.5	5	2	0.5	0.5	2	1
Determined	2.5	<0.5	20	5180	31.5	322	36	23
149148	0.8	<0.5	70	650	9.0	1.5	70	9
149149	0.5	<0.5	40	596	7.0	2.0	36	8
149150	0.3	0.5	400	404	12.5	2.0	244	62
149151	0.4	<0.5	190	104	17.0	2.0	134	19
149152	0.4	<0.5	170	144	24.0	1.5	122	29
149153	0.2	<0.5	125	80	34.5	1.5	104	14
Std Nominal			1600	9990				
Determined	2.5	<0.5	1640	1.04%	19.5	3.5	56	11
149154	0.3	<0.5	30	174	12.0	1.5	18	19
149155	0.8	<0.5	55	288	32.5	1.5	34	20
149156	0.3	<0.5	65	140	64.0	2.5	36	10
149156 Rpt	0.3	<0.5	65	140	65.5	2.5	36	10
149157	0.6	<0.5	90	280	37.0	1.5	48	11
149158	0.4	<0.5	225	518	10.0	1.0	98	7
149159	0.4	<0.5	170	24	14.0	1.0	24	9
149160	<0.1	<0.5	435	78	11.0	1.0	4940	8
149161	0.3	<0.5	10	6	12.0	1.0	26	11
149162	0.4	<0.5	15	8	15.5	0.5	26	10
149163	0.3	<0.5	65	28	30.5	1.0	34	14
149164	0.3	<0.5	160	126	27.0	0.5	104	14
149165	0.3	<0.5	105	60	30.5	1.5	66	13
149166	0.2	<0.5	185	34	31.0	4.0	96	17
149167	0.6	<0.5	180	16	25.0	8.5	90	17
149168	0.4	<0.5	310	564	17.5	2.5	176	10
149169	0.2	<0.5	505	160	18.5	1.5	188	20
149170	0.4	<0.5	55	40	27.0	1.5	26	12
149171	0.5	<0.5	60	70	34.5	0.5	26	7
149172	0.2	<0.5	70	20	44.0	0.5	38	9
149173	0.5	<0.5	40	118	16.5	1.5	22	15
149174	0.9	<0.5	60	86	28.0	2.0	30	20
149175	1.2	<0.5	80	62	54.0	1.5	38	11
149176	0.2	<0.5	60	138	47.5	1.5	34	6
149177	0.9	<0.5	65	1350	13.5	1.0	76	9
149177 Rpt	0.9	<0.5	65	1360	14.5	1.5	74	9
149178	0.3	<0.5	25	526	9.5	1.5	30	6
149179	0.5	<0.5	75	698	16.0	1.0	66	9
149180	48.8	<0.5	2380	3.13%	11.5	11.0	114	439
149181	0.4	<0.5	25	12	11.0	0.5	20	11
149182	0.7	<0.5	50	16	13.5	1.5	22	10
149183	0.1	<0.5	20	42	30.5	0.5	10	6
149184	0.2	<0.5	35	10	40.0	<0.5	24	4
149185	0.6	<0.5	60	24	26.0	<0.5	34	9



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	Bi ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm
Detection Limit	0.1	0.5	5	2	0.5	0.5	2	1
149186	<0.1	<0.5	55	30	33.0	<0.5	34	4
149187	0.1	<0.5	70	44	26.0	<0.5	48	8
149188	0.3	<0.5	95	56	29.0	0.5	64	9
149189	<0.1	<0.5	80	44	43.5	2.0	52	8
149190	0.3	<0.5	70	48	36.0	0.5	36	17
149191	0.6	<0.5	130	544	26.5	1.0	76	15
149192	2.5	<0.5	165	268	53.5	1.5	78	19
149193	1.0	<0.5	65	130	52.0	1.5	48	18
149194	0.4	<0.5	25	546	7.0	1.0	26	11
149195	0.6	<0.5	65	40	20.0	0.5	58	9
149196	0.3	<0.5	20	8	15.0	0.5	24	9
149197	0.4	<0.5	60	14	17.0	<0.5	60	9
149197 Rpt	0.4	<0.5	60	14	17.0	<0.5	64	9
149198	0.5	<0.5	55	8	14.0	0.5	28	10
Std Nominal			1.50%	4480				
Determined	3.2	<0.5	1.46%	4450	216	2.5	20	13
149199	<0.1	<0.5	50	46	25.0	<0.5	24	4
149200	<0.1	<0.5	50	76	25.5	<0.5	24	4
149201	<0.1	<0.5	55	196	24.0	<0.5	34	7
149202	<0.1	<0.5	70	16	26.0	<0.5	44	9
149203	0.2	<0.5	110	18	24.5	<0.5	62	9
149204	1.0	1.0	580	218	23.0	1.0	290	17
149204 Rpt	1.0	1.0	570	224	24.0	1.0	282	17
149205	0.8	<0.5	1140	716	19.5	1.5	612	28
149206	0.4	<0.5	295	198	20.0	1.0	164	23
149207	0.8	<0.5	70	44	34.0	1.0	44	17
149208	0.8	<0.5	160	58	35.5	4.5	82	14
149209	0.3	<0.5	140	64	57.5	2.5	60	8
149210	<0.1	<0.5	135	64	55.0	0.5	18	4
149211	0.4	<0.5	150	652	31.5	2.0	124	21
149212	0.3	<0.5	115	296	41.0	2.0	60	22
149213	0.5	<0.5	105	472	28.5	1.0	64	24
149214	0.3	<0.5	50	186	10.5	0.5	32	8
149215	0.2	<0.5	35	78	14.5	1.0	30	8
149216	0.2	<0.5	50	150	8.5	1.0	44	6
149217	0.3	<0.5	135	32	12.5	0.5	28	8
149217 Rpt	0.3	<0.5	135	32	13.0	1.0	28	8
149218	0.4	<0.5	15	8	12.0	0.5	20	10
149219	0.3	<0.5	15	8	11.5	1.0	18	10
149220	<0.1	<0.5	445	80	11.0	1.0	5060	8
149221	0.5	<0.5	15	6	12.0	1.5	36	12
149222	0.5	<0.5	25	6	12.0	1.0	26	9
149223	0.5	<0.5	65	16	22.5	1.0	18	6



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	Bi ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm
Detection Limit	0.1	0.5	5	2	0.5	0.5	2	1
149223 Rpt	0.5	<0.5	65	16	22.0	1.0	18	7
149224	0.4	<0.5	65	10	21.0	<0.5	22	7
149225	0.2	<0.5	175	20	38.0	<0.5	24	10
149226	0.1	<0.5	85	46	34.0	1.0	36	6
Std Nominal	<0.1	<0.5	155	316	7.5	2.0	6930	3
Determined	<0.1	<0.5	155	320	7.5	2.0	6900	3
149227	<0.1	<0.5	90	224	35.0	0.5	66	9
149228	0.3	<0.5	140	50	29.0	1.5	90	14
149229	0.2	<0.5	140	30	30.5	1.0	90	12
149230	0.1	<0.5	75	54	37.5	1.0	44	8
149231	0.2	<0.5	235	888	14.5	1.5	130	10
149232	0.3	<0.5	1260	1240	14.0	1.5	500	41
149233	0.4	<0.5	115	24	22.5	1.0	38	18
149233 Rpt	0.5	<0.5	110	22	23.0	1.0	36	18
149234	0.2	<0.5	70	16	36.5	0.5	32	7
149235	0.1	<0.5	55	458	45.0	0.5	30	7
149236	0.4	<0.5	60	10	58.5	3.0	30	9
149237	<0.1	<0.5	215	104	37.0	1.0	72	8
149238	0.2	<0.5	300	16	37.5	<0.5	142	12
149239	<0.1	<0.5	200	128	36.0	<0.5	64	6
149240	47.2	<0.5	2400	3.18%	10.5	10.5	114	428
149241	0.4	<0.5	135	50	28.0	1.0	60	11
149242	0.3	<0.5	80	56	28.0	0.5	38	11
149243	0.2	<0.5	110	52	33.0	1.5	74	10
149244	0.1	<0.5	160	22	25.5	1.0	102	9
Std Nominal	3.0	9.0	45	1500	9.5	67.0	74	521
Determined	2.9	9.5	50	1560	10.0	66.0	74	526
149245	0.1	<0.5	70	292	13.0	3.0	38	12
149246	0.2	<0.5	440	1350	10.0	2.0	188	10
149247	0.2	<0.5	255	70	26.5	1.0	48	9
149248	0.3	<0.5	65	6	39.5	0.5	44	7
149249	0.4	<0.5	50	8	34.5	1.5	26	9
149250	0.1	<0.5	55	12	64.0	1.0	28	10
149251	0.2	<0.5	50	14	39.5	<0.5	30	6
149252	<0.1	<0.5	30	328	5.5	1.5	42	6
149253	0.8	<0.5	505	1140	17.0	1.5	182	10
149254	0.2	<0.5	30	226	7.5	1.5	54	4
149255	0.2	<0.5	50	24	37.0	<0.5	28	6
149255 Rpt	0.1	<0.5	55	22	36.5	<0.5	28	6
149256	<0.1	<0.5	30	10	22.5	<0.5	16	6
149257	0.1	<0.5	75	14	32.5	0.5	28	8
149258	<0.1	<0.5	60	44	23.5	<0.5	32	7
149259	<0.1	<0.5	50	58	44.0	1.0	22	8



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	Bi ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm
Detection Limit	0.1	0.5	5	2	0.5	0.5	2	1
149260	0.1	<0.5	50	64	43.0	0.5	22	9
149261	0.2	<0.5	80	60	24.5	1.0	48	13
149262	0.4	<0.5	60	52	24.0	1.0	34	27
Std Nominal	2.6		15	5310	30.5	319	38	24
Determined	2.5	<0.5	20	5250	29.5	326	36	24
149263	0.3	<0.5	60	182	20.0	0.5	50	12
149264	<0.1	<0.5	100	206	14.0	0.5	36	10
149265	0.4	<0.5	115	212	21.0	2.0	18	18
149266	0.4	<0.5	45	20	23.5	1.0	32	8
149267	0.5	<0.5	70	48	28.0	1.0	52	9
149268	0.1	<0.5	60	18	49.0	<0.5	32	6
149269	0.2	<0.5	60	32	48.0	0.5	42	6
149270	0.3	<0.5	210	22	22.5	1.0	184	12
149271	0.1	<0.5	260	16	24.5	0.5	170	4
149272	0.3	<0.5	245	66	14.5	<0.5	226	6
149273	<0.1	<0.5	80	26	11.5	0.5	60	3
149274	<0.1	<0.5	380	58	23.5	<0.5	86	4
149274 Rpt	<0.1	<0.5	380	60	23.0	<0.5	86	4
149275	0.1	<0.5	110	42	18.0	1.0	70	3
149276	0.1	<0.5	55	14	18.0	0.5	38	6
149277	0.2	<0.5	40	10	21.0	0.5	36	6
149278	0.3	<0.5	410	20	17.5	<0.5	42	9
149279	<0.1	<0.5	90	38	23.0	<0.5	78	8
149280	<0.1	<0.5	440	80	11.0	1.0	4950	8
149281	0.4	<0.5	40	10	16.0	1.0	32	6
149282	0.4	<0.5	40	10	7.5	1.5	18	6
149283	0.5	<0.5	45	32	17.0	1.0	24	7
149284	0.2	<0.5	65	20	23.0	1.0	44	11
149284 Rpt	0.2	<0.5	65	22	22.5	1.0	46	11
149285	0.1	<0.5	50	14	30.0	2.0	22	8
149286	0.3	<0.5	40	44	19.5	2.0	18	9
149287	<0.1	<0.5	30	164	15.5	2.0	20	7
149288	<0.1	<0.5	15	82	9.5	2.0	16	2
149289	0.3	<0.5	350	112	20.0	1.5	100	11
149290	0.2	<0.5	85	102	16.0	1.0	46	10
149291	0.2	<0.5	20	44	12.5	1.0	24	8
149292	<0.1	<0.5	15	22	13.5	0.5	20	7
149293	<0.1	<0.5	20	20	13.5	0.5	20	6
149294	<0.1	<0.5	20	18	13.0	0.5	22	7
149295	0.2	<0.5	25	28	17.0	0.5	30	4
149296	0.1	<0.5	20	14	12.0	1.0	12	6
149296 Rpt	0.1	<0.5	20	14	12.0	1.0	14	7
149297	0.1	<0.5	15	10	10.0	2.0	10	6



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	Bi ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm
Detection Limit	0.1	0.5	5	2	0.5	0.5	2	1
149298	0.2	<0.5	20	10	12.0	1.5	10	7
149299	0.3	<0.5	30	16	16.0	1.5	16	7
149299 Rpt	0.4	<0.5	30	16	16.5	1.5	14	8
149300	48.5	<0.5	2470	3.21%	10.5	10.0	118	430
149301	0.2	<0.5	270	76	26.0	0.5	152	8
149302	0.1	<0.5	360	22	15.0	0.5	46	7
149303	0.2	<0.5	40	8	12.5	0.5	26	8
149304	<0.1	<0.5	20	6	12.0	0.5	22	7
149305	<0.1	<0.5	15	6	12.0	1.0	22	7
149306	<0.1	<0.5	10	6	12.0	0.5	20	7
Std Nominal			1600	9990				
Determined	2.6	<0.5	1650	1.03%	17.5	3.0	60	11
149307	0.1	<0.5	20	10	12.0	1.0	20	7
149308	0.1	<0.5	15	10	11.0	1.0	16	6
149309	0.3	<0.5	15	6	12.5	1.5	20	10
149310	0.3	<0.5	25	12	7.0	11.0	8	7
149311	<0.1	<0.5	30	12	10.0	1.5	10	6
149312	0.7	<0.5	50	44	30.5	0.5	24	7
149313	<0.1	<0.5	45	10	30.5	0.5	16	3
149314	0.5	<0.5	645	226	7.5	2.0	280	9
149315	0.4	<0.5	200	140	14.5	1.5	124	9
149315 Rpt	0.4	<0.5	200	142	14.5	1.5	126	9
149316	0.3	<0.5	60	10	14.0	0.5	34	9
149317	0.3	<0.5	20	8	10.5	0.5	22	10
149318	0.3	<0.5	15	8	10.0	0.5	20	10
149319	0.3	<0.5	20	8	14.0	1.0	26	9
149320	0.3	<0.5	20	8	14.5	0.5	26	9
149321	0.5	<0.5	25	10	21.0	1.0	20	7
149322	0.1	<0.5	340	6	20.0	0.5	20	6
149323	0.6	<0.5	65	4	35.0	0.5	48	8
149324	<0.1	<0.5	100	86	51.0	0.5	62	7
149325	0.2	<0.5	200	38	27.0	<0.5	142	8
149326	0.2	<0.5	120	28	27.0	<0.5	102	11
149327	1.2	<0.5	210	32	34.5	3.5	140	23
149328	1.6	0.5	455	66	35.0	7.0	268	60
149329	3.2	0.5	715	50	29.0	4.5	424	35
149330	0.6	0.5	1280	492	15.5	2.0	678	49
149331	0.3	<0.5	195	190	21.0	1.0	114	25
Std Nominal			1.50%	4480				
Determined	3.3	<0.5	1.47%	4430	220	2.5	20	13
149332	0.2	<0.5	55	50	22.0	1.5	44	9
149333	<0.1	<0.5	30	14	10.5	1.5	24	4
149334	0.4	<0.5	40	8	14.5	1.5	22	7



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	Bi ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm
Detection Limit	0.1	0.5	5	2	0.5	0.5	2	1
149335	Sample Not Received							
149336	0.3	<0.5	390	578	35.0	3.5	242	18
149337	0.2	<0.5	75	82	44.5	2.5	50	8
149338	0.7	<0.5	390	936	11.0	2.5	310	11
149338 Rpt	0.8	<0.5	395	964	10.5	2.5	316	12
149339	0.4	<0.5	70	578	7.5	1.5	84	9
149340	<0.1	<0.5	445	82	10.5	1.0	5040	8
149341	0.3	<0.5	45	22	15.5	0.5	48	8
149342	0.2	<0.5	20	16	14.0	0.5	26	9
149343	0.2	<0.5	15	12	11.0	0.5	22	8
149344	0.2	<0.5	210	20	18.0	<0.5	20	6
149344 Rpt	0.2	<0.5	210	20	17.0	0.5	20	6
149345	0.5	<0.5	80	14	48.5	0.5	52	10
149346	0.2	<0.5	75	12	36.0	<0.5	52	7
149347	0.3	<0.5	65	20	44.0	<0.5	48	6
149348	0.2	<0.5	160	52	31.0	0.5	118	8
149349	0.2	<0.5	285	380	25.0	<0.5	36	9
149350	0.2	<0.5	65	20	26.0	0.5	38	8
149351	<0.1	<0.5	65	20	49.0	<0.5	52	7
149352	<0.1	<0.5	45	4	41.0	<0.5	38	3
149353	0.5	<0.5	70	214	11.0	1.5	36	11
149354	0.1	<0.5	40	122	14.0	1.0	48	9
149355	0.2	<0.5	60	250	15.5	0.5	46	9
149356	0.2	<0.5	110	366	7.5	1.0	72	8
149357	0.3	<0.5	30	66	10.5	1.0	28	9
149357 Rpt	0.3	<0.5	35	64	10.5	1.0	26	9
149358	0.4	<0.5	30	48	10.5	1.0	24	10
149359	0.4	<0.5	15	10	10.5	0.5	20	10
149360	<0.1	<0.5	435	82	10.0	1.0	4970	8
Std Nominal	<0.1	<0.5	155	316	7.5	2.0	6930	3
Determined	<0.1	<0.5	160	320	7.5	2.0	6970	4
149361	0.5	<0.5	15	12	10.5	0.5	32	11
149362	0.4	<0.5	20	18	11.0	1.0	26	10
149363	0.6	<0.5	30	20	22.5	2.0	16	8
149364	0.2	<0.5	40	10	27.5	1.0	24	6
149365	0.2	<0.5	50	8	37.0	0.5	28	7
149366	<0.1	<0.5	45	18	34.5	0.5	28	4
149367	<0.1	<0.5	35	8	25.0	0.5	20	4
149368	0.2	<0.5	55	22	37.5	1.0	22	4
149369	<0.1	<0.5	50	26	47.5	0.5	22	4
149370	0.3	<0.5	50	8	54.0	1.0	20	10
149371	Sample Not Received							



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	Bi ppm	Cd ppm	Co ppm	Cu ppm	Li ppm	Mo ppm	Ni ppm	Pb ppm
Detection Limit	0.1	0.5	5	2	0.5	0.5	2	1
149372	Sample Not Received							
149373	Sample Not Received							
149374	Sample Not Received							
149375	Sample Not Received							
149376	Sample Not Received							
149377	Sample Not Received							
149378	Sample Not Received							
149379	Sample Not Received							
149380	Sample Not Received							
149381	Sample Not Received							
149382	Sample Not Received							
149383	Sample Not Received							
149384	Sample Not Received							
149385	Sample Not Received							
149386	Sample Not Received							
149387	Sample Not Received							
149388	Sample Not Received							
149140	0.1	<0.5	90	156	33.0	1.0	74	28
149140 Rpt	0.1	<0.5	90	158	33.0	1.0	74	27
Std Nominal	3.0	9.0	45	1500	9.5	67.0	74	521
Determined	2.9	9.0	45	1490	9.0	69.0	72	516



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	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
149072	80	2.2	14.9
149073	48	2.9	13.4
149074	48	1.8	9.5
149075	36	2.7	17.5
149076	60	6.0	10.0
149077	70	4.6	11.2
149078	56	2.9	10.1
149079	60	2.0	9.8
149080	98	0.8	2.6
149081	78	2.3	9.9
149082	130	2.9	10.0
149083	100	3.0	10.3
149084	24	6.6	11.6
149084 Rpt	26	6.1	10.8
149085	32	4.9	10.5
149086	42	3.4	10.4
149087	64	2.5	11.6
149088	72	3.1	11.7
149089	38	5.1	11.3
Std Nominal	104	0.7	2.8
Determined	106	0.7	2.7
149090	24	4.1	11.1
149091	32	7.7	14.4
149092	28	5.3	10.6
149093	48	4.2	9.3
149093 Rpt	50	4.2	9.5
149094	64	3.3	10.4
149095	62	3.6	10.3
149096	70	2.7	9.4
149097	48	2.2	6.5
149098	24	4.4	7.1
149098 Rpt	22	4.3	7.2
149099	84	2.7	11.2
149100	36	1.5	3.1
149101	110	2.8	11.8
149102	106	2.8	12.0
149103	126	3.1	11.9
149104	152	2.8	11.4
149105	130	3.3	10.7
149106	66	3.2	10.4
149107	54	2.8	10.1
149108	36	5.6	16.2
149109	60	4.1	11.3



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	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
149110	80	4.1	10.8
149111	90	3.5	12.5
Std Nominal	5200	0.8	2.7
Determined	5210	0.8	2.8
149112	48	4.1	12.4
149113	46	4.7	11.6
149114	64	3.1	11.0
149115	90	3.1	11.8
149116	78	3.0	11.1
149117	44	3.3	10.5
149117 Rpt	44	3.1	10.1
149118	136	3.7	11.4
149119	124	3.8	11.5
149120	102	0.8	2.8
149121	36	5.2	13.6
149122	42	4.2	13.0
149123	78	4.8	12.4
149124	106	4.1	13.1
149125	64	4.0	11.2
149126	74	2.5	10.5
149127	52	3.1	10.6
149128	66	3.9	11.9
149129	62	4.2	12.3
149130	106	4.0	13.2
149131	134	6.0	20.3
149132	130	5.3	16.0
149133	44	8.8	18.7
149134	64	4.6	12.9
149135	36	4.6	12.4
149136	48	4.3	11.4
149136 Rpt	48	4.6	11.8
149137	96	3.4	12.8
149138	82	3.5	12.0
149139	58	3.6	12.2
149141	60	3.8	12.3
149142	64	4.7	12.5
149143	86	4.0	12.6
149144	48	3.5	9.6
149145	30	6.4	25.5
149146	34	10.4	12.2
149146 Rpt	36	10.3	12.3
149147	54	4.9	10.9
Std Nominal	92	4.2	15.6



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	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
Determined	90	4.0	15.4
149148	12	2.6	10.3
149149	16	2.9	9.3
149150	140	4.4	13.7
149151	34	3.6	13.1
149152	76	3.4	12.0
149153	50	3.7	11.7
Std Nominal			
Determined	62	59.8	1.9
149154	20	2.9	17.5
149155	80	6.2	15.3
149156	208	2.8	10.2
149156 Rpt	206	2.8	10.1
149157	84	2.5	10.4
149158	38	2.1	10.4
149159	44	2.3	17.0
149160	100	0.9	2.9
149161	48	2.5	18.0
149162	48	3.3	20.2
149163	30	6.0	12.4
149164	38	4.6	12.7
149165	70	3.7	11.6
149166	54	3.1	12.5
149167	46	3.1	12.4
149168	34	3.9	10.5
149169	38	4.8	15.7
149170	44	6.3	10.7
149171	74	3.6	11.5
149172	64	4.1	13.2
149173	12	3.5	17.2
149174	30	9.9	14.7
149175	114	4.0	10.0
149176	170	2.3	9.7
149177	34	3.8	12.7
149177 Rpt	32	3.7	12.8
149178	16	1.5	8.3
149179	34	2.6	14.1
149180	36	1.6	3.3
149181	32	2.0	16.3
149182	32	6.6	17.0
149183	20	10.4	11.3
149184	52	3.6	11.6
149185	42	3.7	12.0



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	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
149186	66	2.9	11.9
149187	36	3.3	12.2
149188	42	3.9	12.4
149189	116	3.1	11.3
149190	156	2.8	11.9
149191	44	7.5	18.8
149192	98	3.6	10.6
149193	76	3.6	10.9
149194	12	1.4	6.9
149195	38	2.5	18.4
149196	32	2.1	17.7
149197	44	3.7	21.6
149197 Rpt	46	3.6	20.8
149198	42	3.9	17.4
Std Nominal			
Determined	100	9.8	11.0
149199	42	2.8	11.3
149200	42	2.9	11.5
149201	36	3.6	12.3
149202	42	3.5	12.2
149203	60	2.8	12.1
149204	100	3.2	13.5
149204 Rpt	104	3.2	13.6
149205	80	6.7	19.3
149206	54	7.5	18.9
149207	46	7.1	13.1
149208	80	5.7	13.2
149209	124	3.4	12.3
149210	138	2.9	10.1
149211	58	8.0	10.0
149212	46	3.5	9.9
149213	74	2.7	11.3
149214	30	2.9	10.2
149215	32	2.4	12.8
149216	16	1.7	9.5
149217	32	2.0	13.8
149217 Rpt	34	1.9	13.7
149218	34	1.9	17.4
149219	36	2.2	16.4
149220	98	0.9	2.8
149221	44	3.0	16.9
149222	32	4.0	15.1
149223	24	5.7	10.3



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	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
149223 Rpt	22	5.7	10.3
149224	34	4.1	11.6
149225	82	2.4	10.7
149226	66	3.4	11.3
Std Nominal	104	0.7	2.8
Determined	104	0.7	2.7
149227	56	3.4	11.1
149228	66	4.1	11.4
149229	56	4.1	12.8
149230	90	3.3	11.3
149231	46	3.8	10.9
149232	114	3.7	14.1
149233	38	7.0	14.3
149233 Rpt	38	7.2	15.2
149234	58	3.9	12.8
149235	82	4.3	12.4
149236	98	4.6	12.7
149237	58	14.4	9.8
149238	72	6.1	12.2
149239	70	4.8	12.8
149240	38	1.5	3.1
149241	54	4.3	11.8
149242	46	4.0	12.8
149243	86	4.3	12.2
149244	82	3.0	12.9
Std Nominal	5200	0.8	2.7
Determined	5040	0.8	2.8
149245	110	2.9	9.8
149246	34	2.6	10.3
149247	38	7.2	19.0
149248	54	4.2	12.8
149249	86	4.1	12.0
149250	84	4.4	12.3
149251	62	3.6	12.5
149252	12	1.8	7.4
149253	38	3.1	15.6
149254	10	1.3	7.1
149255	56	3.4	11.6
149255 Rpt	56	3.3	11.3
149256	46	2.6	11.4
149257	54	2.8	11.6
149258	34	3.2	11.0
149259	134	2.9	10.3



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	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
149260	138	2.8	10.1
149261	72	3.1	10.1
149262	74	3.8	10.5
Std Nominal	92	4.2	15.6
Determined	90	4.1	15.9
149263	38	4.5	15.7
149264	42	3.6	13.3
149265	42	10.0	11.2
149266	54	4.6	12.1
149267	52	5.7	13.8
149268	88	3.7	13.3
149269	76	4.6	12.9
149270	38	10.7	12.0
149271	44	4.8	13.5
149272	42	3.9	13.2
149273	30	3.2	12.0
149274	42	4.2	12.1
149274 Rpt	40	4.3	12.3
149275	36	4.0	14.0
149276	46	2.5	16.1
149277	48	2.7	18.1
149278	42	3.5	18.9
149279	38	9.1	20.9
149280	98	1.0	2.8
149281	34	4.2	10.9
149282	30	3.7	9.7
149283	42	2.8	10.6
149284	52	3.3	10.8
149284 Rpt	54	3.2	10.4
149285	88	3.0	9.9
149286	56	3.0	9.3
149287	42	3.2	7.7
149288	26	1.2	4.0
149289	46	3.5	24.4
149290	34	2.7	18.1
149291	34	2.4	16.9
149292	36	2.4	18.9
149293	34	2.4	17.0
149294	28	2.3	16.6
149295	30	3.5	13.8
149296	32	2.4	13.6
149296 Rpt	32	2.5	14.0
149297	28	2.4	13.2



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	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
149298	36	2.6	13.9
149299	52	3.4	15.5
149299 Rpt	54	3.5	14.0
149300	38	1.5	3.1
149301	72	3.6	24.7
149302	36	2.5	20.9
149303	32	2.3	17.5
149304	36	2.2	16.9
149305	34	2.3	18.0
149306	30	2.3	17.9
Std Nominal			
Determined	70	59.1	1.9
149307	28	2.5	15.6
149308	24	3.9	15.7
149309	32	3.7	15.8
149310	20	3.7	6.2
149311	26	6.5	11.4
149312	76	3.2	18.4
149313	72	2.2	13.3
149314	36	1.6	6.8
149315	34	2.1	10.5
149315 Rpt	36	2.3	10.2
149316	32	2.4	18.5
149317	38	2.3	13.9
149318	44	3.0	14.5
149319	42	4.2	20.3
149320	42	4.2	16.9
149321	24	7.9	11.5
149322	22	3.7	15.9
149323	38	3.5	20.2
149324	78	2.6	17.2
149325	54	3.9	16.7
149326	54	4.7	15.1
149327	56	5.2	15.8
149328	184	5.8	14.3
149329	142	4.3	13.5
149330	150	6.2	18.1
149331	62	8.6	14.9
Std Nominal			
Determined	104	10.7	10.2
149332	28	9.3	14.6
149333	30	2.0	6.8
149334	36	2.4	11.3



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	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
149335	Sample Not Received		
149336	124	4.9	14.6
149337	152	4.5	12.8
149338	46	4.3	11.3
149338 Rpt	48	4.3	12.0
149339	18	2.9	7.3
149340	98	1.0	2.9
149341	38	2.7	16.1
149342	36	2.7	16.4
149343	38	2.8	12.8
149344	26	4.7	10.8
149344 Rpt	28	5.0	11.1
149345	56	6.3	14.1
149346	56	3.7	14.5
149347	78	3.4	16.7
149348	64	5.0	13.3
149349	44	3.8	10.3
149350	42	4.5	13.7
149351	62	4.8	16.4
149352	58	5.2	14.5
149353	24	6.4	10.9
149354	26	3.8	11.5
149355	26	3.7	15.3
149356	18	2.2	7.9
149357	32	2.1	10.7
149357 Rpt	34	2.1	11.8
149358	34	2.1	14.5
149359	36	2.2	15.7
149360	92	1.0	10.9
Std Nominal	104	0.7	2.8
Determined	106	0.7	2.9
149361	44	3.1	13.7
149362	38	4.0	14.2
149363	24	6.8	12.3
149364	46	3.5	13.7
149365	52	2.8	17.8
149366	66	3.5	14.5
149367	60	2.7	12.1
149368	54	3.8	11.4
149369	112	3.2	14.5
149370	152	3.2	13.4
149371	Sample Not Received		



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	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
149372	Sample Not Received		
149373	Sample Not Received		
149374	Sample Not Received		
149375	Sample Not Received		
149376	Sample Not Received		
149377	Sample Not Received		
149378	Sample Not Received		
149379	Sample Not Received		
149380	Sample Not Received		
149381	Sample Not Received		
149382	Sample Not Received		
149383	Sample Not Received		
149384	Sample Not Received		
149385	Sample Not Received		
149386	Sample Not Received		
149387	Sample Not Received		
149388	Sample Not Received		
149140	54	3.8	12.5
149140 Rpt	56	3.8	11.5
Std Nominal	5200	0.8	2.7
Determined	5160	0.9	2.8

These results pertain to the samples as received at this laboratory.
Where standards are reported, the nominal value for the element is reported above the result found.

"IS" Implies insufficient sample for this determination
"NR" Implies result is not required for this determination
"M" Implies this result reported in ppm
"%" Implies this result reported in %

Sample Storage

The excess material (Residue) will be held after 30 days
The pulp samples (Pulp) will be held after 60 days as per instructions.

Sample Preparation

The samples have been sorted and dried. Primary preparation has been by crushing the whole sample. The samples have been split with a riffle splitter to obtain a sub-fraction which has then been pulverised in a vibrating pulveriser.



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING & LABORATORY SERVICES

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Digest and Analysis:

The sample(s) have been digested and refluxed with a mixture of Acids including Hydrofluoric, Nitric, Hydrochloric and Perchloric Acids. This extended digest approaches a Total digest for many elements however some refractory minerals are not completely attacked.

Ca,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,P,S,V,Zn

have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.

Ag,As,Ba,Bi,Cd,Li,Mo,Pb,Th,U

have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.

The samples have been analysed by Firing a 40 gm (approx) portion of the sample. Lower sample weights may be employed for samples with very high sulphide and metal contents. This is the classical fire assay process and will give total separation of Gold, Platinum and Palladium in the sample.

Au,I,Pd,Pt

have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.