



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: **u281981**  
Date Finished: 24/11/2017  
Order: NC-002  
Project: NC-002  
Date Received: 06/11/2017  
Samples Analysed: **399**

### **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



Reference: u281981 Order Number: NC-002 Page 1 of 49

	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
12585	<1	<5	<5	0.14	20	2.24	3.88	0.72
12586	1	<5	<5	0.22	<10	0.82	1.71	0.23
12587	1	<5	<5	0.11	10	0.69	1.70	0.15
12588	1	<5	<5	0.16	20	2.74	2.65	0.49
12589	<1	<5	<5	0.11	20	2.12	2.12	0.37
12590	1	<5	<5	0.09	20	1.93	2.14	0.34
12591	1	<5	<5	2.71	20	2.39	3.99	1.97
12592	1	<5	<5	3.79	30	2.72	5.38	2.83
12593	3	<5	<5	3.89	30	3.59	5.70	3.32
12594	12	<5	<5	3.88	30	4.14	5.58	3.51
12595	2	<5	<5	2.08	40	5.13	7.01	2.74
12596	2	<5	<5	4.27	30	4.70	6.11	3.73
12596 Rpt	2	<5	<5	4.48	30	4.93	6.34	3.92
12597	<1	<5	<5	5.20	30	4.18	6.28	3.96
12598	1	<5	<5	4.21	40	5.64	6.63	3.89
12599	1	<5	<5	3.47	40	5.89	6.85	3.49
Std Nominal	52	45	45	5.91	230	9.63	0.60	4.05
Determined	51	45	45	5.88	180	9.70	0.62	4.02
12600	IS	IS	IS	0.06	40	8.87	0.16	2.14
12601	1	<5	<5	4.45	30	3.93	6.21	3.07
12602	4	<5	<5	1.27	40	4.96	8.15	2.44
12603	1	<5	<5	3.17	40	4.13	6.71	2.58
12604	<1	<5	<5	4.93	20	2.85	6.14	3.09
12605	<1	<5	<5	2.87	30	4.19	6.60	2.78
12605 Rpt	<1	<5	<5	2.86	30	4.14	6.62	2.80
12606	13	<5	<5	3.72	30	3.94	6.46	2.84
12607	1	<5	<5	3.97	30	4.68	6.22	3.33
12608	3	<5	<5	3.57	30	3.06	5.22	2.54
12609	7	<5	<5	3.34	40	3.93	7.51	2.92
12610	4	<5	<5	7.02	20	5.26	5.61	4.50
12611	1	<5	<5	3.56	10	3.14	8.88	2.37
12612	1	<5	<5	4.33	20	3.18	8.64	2.85
12613	1	<5	<5	7.40	10	5.19	6.55	4.31
12614	1	<5	<5	6.75	10	5.26	6.54	4.25
12615	<1	<5	<5	4.57	20	5.57	7.35	3.44
12675	3	<5	<5	0.21	40	6.21	8.37	0.33
12676	3	<5	<5	1.38	40	1.57	7.41	0.43
12677	3	<5	<5	0.91	20	2.00	10.5	0.63
12677 Rpt	3	<5	<5	0.91	30	2.03	10.4	0.62
12678	3	<5	<5	0.81	30	1.31	11.1	0.34
12679	2	<5	<5	1.33	20	0.98	11.1	0.11
12680	2	<5	<5	1.32	20	0.92	11.5	0.11



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Reference: u281981 Order Number: NC-002 Page 2 of 49

	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
12693	1	<5	<5	0.09	20	1.06	2.67	0.35
12694	3	<5	<5	1.90	40	2.44	6.72	2.04
12695	5	<5	<5	1.87	50	2.62	5.39	2.22
12696	8	<5	<5	1.50	40	3.45	5.46	2.29
Std Nominal	1.37M			2.48	170	8.65	2.35	1.71
Determined	1.35M	<5	<5	2.48	140	8.49	2.35	1.72
12697	1	<5	<5	1.75	30	2.43	7.05	1.69
12698	1	<5	<5	4.10	30	3.58	6.51	2.79
12699	1	<5	<5	5.05	30	3.31	6.33	3.26
12700	IS	IS	IS	1.70	6730	24.8	0.11	1.22
12701	1	<5	<5	4.81	40	3.78	6.04	3.08
12702	<1	<5	<5	3.77	30	3.71	6.51	2.59
12703	4	<5	<5	4.16	30	4.26	6.32	2.74
12704	2	<5	<5	4.55	30	3.41	6.13	2.95
12704 Rpt	2	<5	<5	4.52	30	3.42	6.48	2.91
12705	1	<5	<5	4.03	30	4.70	6.86	2.63
12706	1	<5	<5	5.09	30	4.38	6.31	3.13
12707	3	<5	<5	4.47	30	4.53	6.39	2.82
12708	1	<5	<5	4.19	40	4.36	6.64	2.69
12709	2	<5	<5	4.15	30	4.59	6.65	2.63
12710	3	<5	<5	4.56	30	3.74	6.36	2.78
12711	10	<5	<5	3.55	30	4.63	6.34	2.35
12712	<1	<5	<5	3.32	20	2.05	3.69	2.02
12713	1	<5	<5	1.38	20	1.15	1.76	0.80
12714	2	<5	<5	3.25	<10	3.40	7.75	1.84
12715	2	<5	<5	2.83	10	5.54	8.40	2.25
12716	<1	<5	<5	2.63	<10	5.82	8.71	2.09
12717	1	<5	<5	1.95	10	7.77	8.12	1.95
12718	2	<5	<5	2.55	20	7.01	8.05	2.45
12719	1	<5	<5	3.76	20	8.17	7.03	3.22
12720	IS	IS	IS	0.07	40	8.82	0.15	2.12
Std Nominal	860	910	690	2.73	80	5.43	3.07	1.54
Determined	875	920	685	2.80	50	5.50	3.07	1.56
12779	2	<5	<5	0.17	30	1.26	11.1	0.10
12780	4	<5	<5	0.14	40	1.43	10.9	0.10
12781	1	<5	<5	0.78	30	0.80	11.5	0.12
12782	<1	<5	<5	0.91	30	0.80	12.0	0.13
12783	2	<5	<5	1.04	30	1.10	11.7	0.22
12784	36	<5	<5	1.01	30	1.90	11.0	0.25
12784 Rpt	37	<5	<5	1.05	30	1.88	11.0	0.25
12785	29	<5	<5	1.21	30	1.55	11.5	0.15
12786	7	5	<5	0.35	30	2.39	8.49	0.43
12787	10	<5	<5	0.15	30	1.45	6.17	0.44



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Reference: u281981 Order Number: NC-002 Page 3 of 49

	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
12788	3	<5	<5	0.13	30	1.56	5.58	0.83
12789	4	<5	<5	0.09	30	1.29	4.47	0.55
12790	9	<5	<5	0.13	50	1.92	6.60	0.89
12791	8	5	<5	0.19	50	1.89	10.8	0.83
12791 Rpt	10	5	<5	0.18	50	1.91	10.9	0.82
12792	3	<5	<5	0.24	30	1.79	10.6	0.62
12793	1	<5	<5	0.29	20	1.36	9.00	0.41
12794	4	<5	<5	0.16	30	2.18	7.99	0.62
12795	3	<5	<5	0.15	30	2.87	6.25	1.30
12796	2	<5	<5	0.14	40	4.15	6.57	1.96
12797	2	<5	<5	0.14	30	3.95	5.77	1.98
12798	2	<5	<5	0.15	50	3.63	7.30	1.76
12799	1	<5	<5	0.12	70	3.49	7.05	1.61
12800	IS	IS	IS	1.69	6580	24.6	0.12	1.19
12801	2	<5	<5	0.17	60	4.52	8.20	2.12
12802	1	<5	<5	0.18	50	6.47	8.31	2.64
12802 Rpt	1	<5	<5	0.19	50	6.71	8.40	2.70
12803	1	<5	<5	0.18	60	5.93	8.15	2.56
12804	2	<5	<5	0.20	50	5.37	8.39	2.30
12804 Rpt	2	<5	<5	0.21	50	5.35	8.41	2.28
12805	2	<5	<5	4.02	40	6.26	6.67	4.03
12806	1	<5	<5	4.65	40	5.37	6.46	3.89
12807	<1	<5	<5	4.76	40	4.64	6.72	3.82
12808	2	<5	<5	1.39	40	3.45	8.79	2.00
12809	2	<5	<5	0.21	40	3.30	9.30	1.36
12810	5	<5	<5	0.29	50	3.32	9.84	1.16
12885	2	5	<5	0.16	90	15.2	0.75	0.26
12886	1	5	<5	0.12	60	5.90	6.73	0.38
12887	<1	<5	<5	0.24	40	1.56	10.3	0.53
12888	1	<5	<5	0.23	40	1.37	10.5	0.49
Std Nominal	2.42M			0.40	600	1.29	0.18	0.33
Determined	2.44M	<5	<5	0.41	230	1.32	0.20	0.34
12889	2	<5	<5	0.25	40	1.54	10.5	0.68
12890	9	5	<5	0.28	40	1.33	10.6	0.57
12891	2	<5	<5	0.30	40	1.65	10.7	0.49
12892	4	<5	<5	0.35	40	1.48	11.0	0.48
12893	1	<5	<5	0.35	30	1.10	10.9	0.50
12894	1	<5	<5	0.32	30	1.11	10.9	0.55
12895	1	<5	<5	0.35	30	1.01	11.1	0.50
12896	1	<5	<5	0.26	30	1.15	11.0	0.56
12897	3	<5	<5	0.25	40	1.48	10.8	0.60
12898	1	<5	<5	0.30	30	1.31	10.9	0.57
12899	2	<5	<5	0.25	60	1.73	10.8	0.74



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Reference: u281981 Order Number: NC-002 Page 4 of 49

	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
12900	IS	IS	IS	1.68	6590	24.7	0.11	1.20
12901	1	<5	<5	0.33	40	1.48	10.7	0.60
Std Nominal	4.94M			0.26		1.40	2.03	3.42
Determined	4.88M	<5	<5	0.27	120	1.39	2.02	3.42
12902	1	<5	<5	0.45	30	1.51	10.5	0.62
12903	3	<5	<5	0.27	40	1.38	10.7	0.61
12904	2	<5	<5	0.23	50	1.69	10.7	0.67
12905	1	<5	<5	0.32	30	1.72	10.9	0.58
12906	2	<5	<5	0.27	30	1.53	10.9	0.63
12907	1	<5	<5	0.25	40	1.68	10.8	0.69
12908	<1	<5	<5	0.25	40	1.77	11.0	0.69
12909	2	<5	<5	0.22	30	1.99	10.8	0.74
12910	3	5	<5	0.21	70	3.33	10.0	1.01
12911	6	<5	<5	0.20	60	3.78	9.84	1.08
12911 Rpt	4	<5	<5	0.20	70	3.83	9.92	1.10
12912	1	<5	<5	0.20	80	3.81	9.77	1.39
12913	1	<5	<5	0.28	50	3.02	9.53	1.20
12913 Rpt	<1	<5	<5	0.27	60	3.01	9.76	1.19
12914	1	<5	<5	0.21	60	2.85	10.0	1.34
12915	1	<5	<5	0.22	50	3.26	9.81	1.57
12916	<1	<5	<5	0.21	50	2.30	10.3	1.20
12917	<1	<5	<5	0.22	40	1.76	10.8	0.84
12918	1	<5	<5	0.35	30	1.55	11.0	0.80
12919	16	<5	<5	1.13	50	1.62	11.2	0.55
12920	IS	IS	IS	0.07	30	8.83	0.15	2.15
12921	11	<5	<5	0.80	40	2.29	10.2	1.34
12922	2	<5	<5	0.75	40	1.71	10.8	0.94
12923	<1	<5	<5	0.82	30	1.18	11.2	0.45
12924	1	<5	<5	0.87	20	1.19	7.45	0.47
12925	1	<5	<5	0.93	30	0.90	8.65	0.32
12926	1	<5	<5	1.14	30	0.82	11.6	0.18
12927	2	5	<5	0.50	20	1.55	11.3	0.64
12928	1	<5	<5	0.23	20	1.27	11.8	0.21
12929	9	15	<5	0.19	40	2.13	11.0	0.41
12929 Rpt	10	15	<5	0.19	50	2.15	11.2	0.40
12930	1	<5	<5	0.11	10	1.35	10.6	0.51
12931	2	5	<5	0.17	30	1.43	11.3	0.53
12932	2	<5	<5	0.24	40	2.40	5.44	0.94
12933	2	<5	<5	0.18	40	5.00	9.02	1.73
12934	2	<5	<5	0.16	50	7.41	7.07	2.44
12934 Rpt	2	<5	<5	0.16	50	7.35	7.95	2.44
12935	3	<5	<5	0.23	60	6.90	7.97	2.38
12936	4	<5	<5	4.55	40	5.02	6.85	3.86



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Reference: u281981 Order Number: NC-002 Page 5 of 49

	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
12937	2	<5	<5	0.23	50	5.49	8.59	2.27
12938	1	<5	<5	2.54	50	6.28	7.01	3.51
12939	1	<5	<5	5.93	40	6.65	5.84	4.87
12940	1	<5	<5	6.29	30	6.47	5.61	4.92
12941	1	<5	<5	7.32	30	6.47	5.08	5.42
12942	1	<5	<5	9.36	30	5.73	4.48	5.98
12943	1	<5	<5	6.05	30	5.45	5.13	4.73
Std Nominal	52	45	45	5.91	230	9.63	0.60	4.05
Determined	51	45	45	5.87	180	9.57	0.61	3.99
12944	1	<5	<5	3.65	30	4.30	4.96	3.07
12945	1	<5	<5	3.21	30	4.12	5.14	2.54
12946	1	<5	<5	4.22	20	2.85	4.55	2.91
12947	1	<5	<5	3.51	30	4.03	5.30	2.62
12948	<1	<5	<5	3.36	30	3.32	5.05	2.62
12949	1	<5	<5	3.81	30	2.64	5.45	2.67
12950	1	<5	<5	4.34	30	4.56	4.48	3.12
12951	4	<5	<5	4.36	20	2.77	6.10	2.79
12952	1	<5	<5	4.31	20	3.04	4.60	2.93
12953	2	<5	<5	4.53	30	4.71	5.83	3.17
12953 Rpt	3	<5	<5	4.48	30	4.76	5.80	3.16
12954	2	<5	<5	4.45	30	4.64	5.96	3.09
12955	2	<5	<5	4.01	30	4.47	5.97	2.85
12956	2	<5	<5	4.23	30	3.84	6.22	2.90
12957	1	<5	<5	3.79	30	4.09	6.08	2.70
12958	3	<5	<5	3.50	30	3.64	5.46	2.57
12959	1	<5	<5	4.84	30	1.87	2.15	2.52
12960	IS	IS	IS	1.72	6640	25.0	0.12	1.23
12961	2	<5	<5	3.41	30	2.67	4.22	2.28
12962	1	<5	<5	2.23	10	1.56	1.60	1.24
12963	2	<5	<5	7.24	10	3.15	1.95	3.82
12964	1	<5	<5	6.38	10	4.05	7.00	3.88
12964 Rpt	1	<5	<5	6.40	10	4.11	7.06	3.89
12965	2	<5	<5	4.48	30	4.60	7.17	3.32
12966	1	<5	<5	3.52	30	3.76	5.56	2.62
12967	4	<5	<5	6.24	20	5.44	7.33	4.17
12968	<1	<5	<5	5.90	10	4.32	8.03	3.39
12969	1	<5	<5	7.02	20	6.31	6.67	4.07
12970	1	<5	<5	3.07	20	6.80	7.38	3.28
12971	1	<5	<5	5.12	20	6.45	6.99	3.98
12972	5	<5	<5	5.49	20	6.36	5.26	4.17
Std Nominal	1.37M			2.48	170	8.65	2.35	1.71
Determined	1.40M	<5	<5	2.48	140	8.37	2.34	1.67
12973	5	<5	<5	4.30	20	4.26	4.92	3.13



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Reference: u281981 Order Number: NC-002 Page 6 of 49

	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
12974	<1	<5	<5	3.82	20	4.22	5.28	2.59
12975	1	<5	<5	4.57	10	4.90	8.74	2.58
12976	7	<5	<5	4.29	30	4.87	5.20	3.46
12977	2	<5	<5	3.59	20	3.54	5.21	2.60
12978	1	<5	<5	4.32	20	4.03	3.95	2.98
12979	1	<5	<5	3.56	20	4.85	4.61	3.12
12980	IS	IS	IS	0.06	40	8.92	0.16	2.14
12981	<1	<5	<5	4.20	20	3.25	1.53	2.58
12981 Rpt	1	<5	<5	4.26	20	3.32	1.54	2.64
12982	2	<5	<5	4.34	20	4.40	3.73	3.16
12983	4	<5	<5	3.66	30	4.44	4.72	3.04
12984	2	<5	<5	4.76	20	3.87	3.27	3.29
12985	12	<5	<5	3.61	30	4.86	4.50	2.78
12986	2	<5	<5	1.99	30	5.28	8.07	2.56
12987	3	<5	<5	6.10	20	3.80	3.63	3.62
12988	1	<5	<5	3.02	30	5.01	5.32	2.50
12989	4	<5	<5	5.19	30	4.97	4.99	3.67
12990	2	<5	<5	0.10	40	6.43	0.50	0.14
12991	5	5	<5	0.07	60	10.4	0.60	0.13
Std Nominal	860	910	690	2.73	80	5.43	3.07	1.54
Determined	868	905	690	2.79	60	5.54	3.07	1.58
12992	3	<5	<5	0.06	40	7.34	1.94	0.31
12992 Rpt	3	<5	<5	0.05	40	7.11	1.90	0.29
12993	5	<5	5	0.34	40	1.99	7.80	1.20
12994	15	<5	<5	0.41	40	5.84	7.67	0.70
12995	9	<5	<5	0.80	50	2.71	8.96	0.55
12996	2	5	<5	1.55	50	2.07	8.00	0.39
12997	1	5	<5	3.51	50	1.74	10.4	0.46
12998	7	5	<5	2.88	40	1.90	10.3	0.49
12999	12	5	<5	2.90	40	2.53	10.3	0.48
13000	1	<5	<5	2.91	40	2.53	9.93	0.47
13001	11	<5	5	1.43	30	14.9	3.51	0.40
13002	4	<5	<5	3.07	30	8.33	6.25	0.58
13003	7	<5	<5	0.66	30	12.8	3.18	0.36
13003 Rpt	7	<5	<5	0.66	30	12.7	3.18	0.36
13004	9	5	5	2.25	30	13.4	4.23	0.32
13005	4	<5	<5	0.57	40	4.20	7.24	0.66
13006	1	<5	<5	0.54	30	2.25	10.7	0.43
13006 Rpt	3	<5	<5	0.54	30	2.25	10.6	0.43
13007	4	<5	<5	0.54	30	1.59	11.0	0.39
13008	2	5	<5	0.57	30	1.07	10.9	0.35
13009	7	<5	<5	0.62	40	1.07	11.4	0.42
13010	3	5	<5	0.73	30	0.90	12.4	0.29



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MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 7 of 49

	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	2.42M			0.40	600	1.29	0.18	0.33
Determined	2.43M	<5	<5	0.42	320	1.32	0.20	0.32
13011	2	<5	<5	1.42	40	1.05	9.48	0.30
13012	4	<5	<5	0.93	40	1.09	11.3	0.38
13013	3	<5	<5	0.53	40	1.36	11.5	0.36
13014	10	5	<5	3.46	40	1.62	10.4	0.28
13015	1	<5	<5	0.70	30	1.62	11.3	0.30
13016	3	<5	<5	0.98	30	2.11	11.2	0.29
13017	1	<5	<5	0.95	30	1.85	11.1	0.38
13018	2	<5	<5	0.97	30	1.48	11.2	0.48
13019	1	<5	<5	0.89	40	1.64	10.2	0.41
13020	IS	IS	IS	1.68	6740	24.6	0.12	1.19
13021	1	<5	<5	1.49	50	1.28	11.0	0.47
13022	1	<5	<5	0.81	40	1.53	11.3	0.38
13023	4	5	<5	0.68	40	2.24	10.9	0.61
13024	1	<5	<5	1.79	30	1.32	11.1	0.42
13025	<1	<5	<5	1.33	40	2.32	10.6	0.65
13026	2	<5	<5	0.74	40	2.05	10.9	0.50
13027	1	<5	<5	0.36	30	1.70	11.1	0.43
13028	4	5	10	0.73	40	2.72	10.8	0.58
13029	4	10	10	0.82	40	2.63	10.8	0.62
13030	2	5	5	0.95	30	1.55	10.9	0.55
13031	11	<5	<5	1.00	40	1.97	10.8	0.73
13032	1	<5	5	0.96	30	2.65	10.6	0.93
13033	1	<5	<5	0.79	40	2.68	10.6	0.94
13034	1	<5	<5	1.51	30	2.86	10.1	1.05
13035	4	5	5	0.98	20	3.31	10.5	0.53
13036	2	<5	<5	0.45	30	3.75	10.1	0.89
13037	7	<5	5	0.69	20	5.29	8.74	1.10
13038	3	<5	<5	0.60	30	6.66	8.38	1.43
13039	3	<5	<5	1.09	20	5.21	8.95	1.24
Std Nominal	4.94M			0.26		1.40	2.03	3.42
Determined	4.75M	<5	<5	0.27	110	1.41	2.03	3.36
13040	IS	IS	IS	0.06	20	8.73	0.15	2.11
13041	3	<5	<5	1.80	20	2.29	10.1	0.73
13042	3	<5	<5	1.82	30	2.95	9.94	0.81
13043	2	<5	<5	0.69	20	1.80	11.0	0.56
13044	7	<5	<5	0.30	20	1.68	11.2	0.45
13045	<1	<5	<5	0.24	30	1.49	11.2	0.57
13046	1	<5	<5	0.29	40	3.08	10.0	1.31
13046 Rpt	2	<5	<5	0.28	40	3.01	9.81	1.28
13096	1	<5	<5	0.20	20	1.23	10.5	0.60
13097	3	<5	<5	0.25	30	1.15	10.8	0.64





Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 8 of 49

	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
13098	1	<5	<5	0.24	30	1.32	10.5	0.71
13099	8	<5	<5	0.24	30	1.46	10.3	0.81
13099 Rpt	3	<5	<5	0.24	30	1.47	10.4	0.82
13100	3	<5	<5	0.24	30	1.42	10.5	0.81
13101	12	<5	<5	0.29	30	1.44	10.1	0.80
13102	9	<5	<5	0.24	30	2.56	10.0	0.75
13103	18	<5	<5	0.57	30	2.25	10.7	0.53
13104	13	<5	5	0.23	40	1.72	11.3	0.29
13105	21	5	5	0.45	50	2.15	9.06	0.59
13106	30	10	10	0.47	40	1.54	9.62	0.59
13107	10	<5	<5	0.56	30	2.06	7.39	1.45
13108	5	<5	<5	0.52	50	1.66	11.4	0.71
13109	16	<5	<5	0.53	40	2.69	4.00	1.62
13110	14	<5	<5	0.65	50	2.85	7.18	1.47
13111	28	<5	<5	0.67	50	3.07	6.39	1.51
13112	11	<5	<5	0.97	40	2.88	6.93	1.61
13113	11	<5	<5	0.76	40	3.38	6.98	1.58
13114	14	<5	<5	0.82	30	2.38	9.05	1.18
13115	12	<5	<5	0.97	30	2.08	9.08	1.04
13116	13	<5	<5	1.21	20	0.78	10.2	0.14
13116 Rpt	12	<5	<5	1.19	30	0.74	9.06	0.13
13117	20	<5	<5	1.15	20	0.74	5.29	0.11
13118	10	<5	<5	1.00	40	1.48	5.02	0.14
13119	1	<5	<5	1.16	30	0.75	7.87	0.15
13120	IS	IS	IS	1.70	7130	24.8	0.11	1.20
13121	9	<5	<5	1.23	20	0.92	6.66	0.19
13122	1	<5	<5	0.08	10	0.55	2.01	0.11
Std Nominal	52	45	45	5.91	230	9.63	0.60	4.05
Determined	51	45	45	5.91	190	9.70	0.61	3.99
13123	1	<5	<5	0.10	<10	0.74	2.73	0.21
13124	3	<5	<5	0.13	10	1.18	4.64	0.28
13125	5	<5	<5	0.17	40	1.54	9.00	0.85
13126	3	<5	<5	0.25	60	1.18	3.93	0.54
13127	5	<5	<5	0.30	50	1.12	8.44	0.32
13127 Rpt	4	<5	<5	0.30	50	1.08	7.86	0.32
13128	4	<5	<5	0.23	30	1.28	6.67	0.37
13129	2	<5	<5	0.18	30	1.64	6.05	0.76
13130	2	<5	<5	0.16	40	1.76	8.68	0.78
13131	1	<5	<5	0.20	40	1.40	9.58	0.62
13132	1	<5	<5	0.20	40	1.60	9.03	0.63
13133	1	<5	<5	0.19	40	2.54	9.09	0.85
13134	2	<5	<5	0.19	40	1.95	6.78	0.73
13135	1	<5	<5	0.20	40	2.04	7.98	0.76



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 9 of 49

	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
13136	1	<5	<5	0.20	30	2.58	8.87	0.86
13137	2	<5	<5	0.20	40	2.92	8.21	1.04
13138	1	<5	<5	0.19	40	3.49	8.98	1.06
13139	2	<5	<5	0.28	40	2.87	5.70	0.96
13141	2	<5	<5	0.22	40	2.60	8.63	0.97
13142	1	<5	<5	0.23	50	3.18	5.53	1.09
13143	2	<5	5	0.24	60	4.87	7.58	1.48
13143 Rpt	2	<5	<5	0.23	50	4.79	7.60	1.44
13144	3	<5	5	0.20	50	6.43	6.99	1.96
13145	2	<5	<5	0.19	60	6.59	6.79	2.47
13145 Rpt	4	<5	<5	0.19	60	6.47	6.35	2.45
13201	4	<5	<5	0.62	30	2.20	9.98	0.18
13202	4	<5	<5	0.76	30	1.77	9.15	0.37
13203	11	<5	<5	0.74	60	2.54	7.53	0.91
Std Nominal	1.37M			2.48	170	8.65	2.35	1.71
Determined	1.34M	<5	<5	2.51	150	8.66	2.35	1.73
13204	17	<5	<5	0.59	40	2.58	9.37	0.94
13205	18	<5	<5	0.53	40	2.68	9.98	1.11
13206	10	<5	<5	0.60	40	3.34	8.85	1.44
13207	18	<5	<5	0.61	50	2.70	5.33	0.97
13208	15	<5	<5	0.63	50	2.02	4.03	0.56
13209	2	<5	<5	0.68	30	1.10	5.24	0.39
13210	1	<5	<5	0.73	30	1.23	10.8	0.36
13211	1	<5	<5	0.70	20	1.41	9.64	0.43
13212	15	<5	<5	0.71	30	1.24	11.2	0.37
13213	8	<5	<5	0.72	30	0.89	11.6	0.20
13213 Rpt	8	<5	<5	0.74	30	0.91	12.2	0.20
13214	11	<5	<5	0.83	20	1.45	7.26	0.39
13215	2	<5	<5	0.07	10	0.98	1.83	0.25
13216	3	<5	<5	0.08	20	1.05	2.62	0.44
13217	2	<5	<5	0.10	20	1.41	3.98	0.50
13218	3	<5	<5	0.07	20	1.43	3.24	0.62
13219	2	<5	<5	0.12	30	2.56	7.64	1.48
13220	3	<5	<5	0.12	30	2.52	5.25	1.47
13221	Sample Not Received							
13323	12	<5	<5	0.08	20	1.34	4.50	0.58
13324	15	<5	<5	0.10	40	3.02	9.57	1.28
13325	<1	<5	<5	0.08	10	1.00	2.72	0.35
13326	2	<5	<5	0.09	20	0.81	4.08	0.42
13327	1	<5	<5	0.08	20	0.70	3.26	0.40
13328	<1	<5	<5	0.07	10	0.78	2.31	0.25
Std Nominal	860	910	690	2.73	80	5.43	3.07	1.54
Determined	863	920	680	2.76	70	5.52	3.11	1.61



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 10 of 49

	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
13329	2	<5	<5	0.07	10	1.02	4.00	0.52
13330	4	<5	<5	1.79	40	3.66	5.56	2.49
13344	1	<5	<5	3.25	30	4.33	5.85	2.62
13345	1	<5	<5	3.98	30	4.12	6.11	2.71
13345 Rpt	1	<5	<5	4.06	40	4.24	6.48	2.76
13346	1	<5	<5	4.17	30	4.09	6.60	2.78
13347	1	<5	<5	3.67	30	4.16	6.36	2.63
13348	1	<5	<5	7.04	30	4.30	5.08	4.79
13349	4	<5	<5	9.60	20	4.12	3.75	5.27
13350	1	<5	<5	4.81	20	3.75	7.15	3.33
13351	<1	<5	<5	4.08	10	6.00	8.13	3.40
13373	<1	<5	<5	2.73	20	6.23	4.55	3.39
13374	<1	<5	<5	1.18	20	9.70	5.81	4.27
13375	<1	<5	<5	1.21	20	6.66	7.26	2.74
13376	<1	<5	<5	1.93	20	6.00	7.14	2.63
13377	<1	<5	<5	1.70	10	8.79	6.82	3.48
13378	<1	<5	<5	2.87	10	7.72	5.63	3.93
13378 Rpt	1	<5	<5	2.78	20	7.84	5.37	3.94
13379	<1	<5	<5	0.91	20	6.07	8.16	2.14
13380	IS	IS	IS	1.68	6680	25.0	0.12	1.23
13381	<1	<5	<5	3.61	30	5.34	7.36	3.33
13382	<1	<5	<5	1.45	20	5.33	7.71	2.19
13383	4	<5	<5	2.04	20	5.97	7.80	2.77
13384	2	<5	<5	1.80	20	5.21	8.19	2.42
Std Nominal	2.42M			0.40	600	1.29	0.18	0.33
Determined	2.40M	<5	<5	0.40	220	1.28	0.19	0.32
13385	5	<5	<5	0.78	20	5.17	7.61	1.91
13386	48	<5	5	0.56	30	6.35	9.10	2.03
13387	8	<5	<5	0.17	20	3.52	4.38	1.18
13388	1	<5	<5	0.16	20	2.89	3.00	0.93
13388 Rpt	<1	<5	<5	0.17	10	2.90	3.03	0.96
13389	1	<5	<5	11.6	10	4.62	3.23	7.26
13390	4	<5	<5	9.14	20	5.20	3.14	6.26
13391	2	<5	<5	10.8	20	6.31	3.46	6.77
13392	10	<5	<5	1.91	40	8.40	5.80	3.48
13393	4	<5	<5	8.60	<10	4.08	5.99	5.05
13470	<1	<5	<5	2.42	10	7.72	7.09	3.49
13471	1	<5	<5	2.17	20	6.38	7.58	2.51
13472	<1	<5	<5	1.16	20	7.52	7.24	2.58
13473	<1	<5	<5	1.01	20	8.63	7.14	2.88
13474	4	<5	<5	0.77	20	8.80	7.03	3.38
13475	<1	<5	<5	2.29	20	7.26	7.16	2.94
13476	<1	<5	<5	1.00	20	8.01	7.46	3.01



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MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 11 of 49

	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
13477	<1	<5	<5	0.89	20	7.24	6.50	2.37
13478	<1	<5	<5	1.92	20	7.16	7.03	2.84
13478 Rpt	1	<5	<5	1.86	10	7.15	6.13	2.81
13479	<1	<5	<5	0.88	10	9.10	6.83	3.68
13481	<1	<5	<5	4.23	10	4.92	6.69	3.21
13482	1	<5	<5	1.47	20	5.80	7.79	2.25
13483	<1	<5	<5	1.26	20	5.84	4.69	2.02
13484	1	<5	<5	2.79	20	7.35	6.38	3.54
13485	2	<5	<5	12.3	20	7.37	2.89	7.25
13485 Rpt	1	<5	<5	12.4	10	7.35	2.90	7.26
13486	<1	<5	<5	9.29	10	7.98	3.85	6.27
13487	<1	<5	<5	16.3	<10	5.63	1.68	8.67
13488	1	<5	<5	12.8	<10	7.20	2.89	7.34
13489	1	<5	<5	12.6	<10	7.59	2.69	7.47
13490	14	<5	<5	7.42	20	6.57	5.38	4.94
13491	9	<5	<5	6.71	30	6.42	3.77	4.89
13492	2	<5	<5	5.90	<10	4.17	4.85	3.19
Std Nominal	4.94M			0.26		1.40	2.03	3.42
Determined	4.83M	<5	<5	0.25	120	1.42	2.01	3.42
13493	2	<5	<5	4.81	<10	5.46	6.44	3.53
13494	2	<5	<5	4.35	<10	6.03	5.24	3.37
13508	<1	<5	<5	0.99	<10	8.90	2.33	4.42
13509	<1	<5	<5	0.82	<10	11.6	3.90	4.89
13510	<1	<5	<5	0.84	<10	14.8	3.53	6.00
13511	1	<5	<5	2.11	<10	11.2	3.62	5.07
13512	1	<5	<5	7.85	<10	7.99	4.56	5.53
13513	1	<5	<5	15.1	<10	6.68	1.34	8.93
13514	1	<5	<5	16.7	<10	5.57	1.47	8.87
13515	5	<5	<5	15.5	<10	6.30	1.52	8.36
13516	Sample Not Received							
13517	Sample Not Received							
13518	Sample Not Received							
13519	Sample Not Received							
13521	Sample Not Received							
13522	Sample Not Received							
13523	Sample Not Received							
13524	Sample Not Received							
13525	Sample Not Received							
13526	Sample Not Received							
13527	Sample Not Received							



Reference: u281981 Order Number: NC-002 Page 12 of 49

	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
13528	Sample Not Received							
13529	Sample Not Received							
13530	Sample Not Received							
13531	Sample Not Received							
13532	Sample Not Received							
13533	Sample Not Received							
13534	Sample Not Received							
13535	Sample Not Received							
13536	Sample Not Received							
13588	Sample Not Received							
13589	Sample Not Received							
13590	Sample Not Received							
13591	Sample Not Received							
13592	Sample Not Received							
13593	Sample Not Received							
13594	Sample Not Received							
13595	Sample Not Received							
13596	Sample Not Received							
13597	Sample Not Received							
13598	Sample Not Received							
13599	Sample Not Received							
13600	Sample Not Received							
13480	<1	<5	<5	0.97	10	8.75	6.61	3.48
13140	IS	IS	IS	0.06	20	8.78	0.15	2.12
13140 Rpt	NR	NR	NR	0.06	20	8.82	0.15	2.13
Std Nominal	52	45	45	5.91	230	9.63	0.60	4.05
Determined	53	45	45	5.87	180	9.52	0.59	4.01
Std Nominal								
Determined	NR	NR	NR	NR	NR	NR	NR	NR

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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: u281981 Order Number: NC-002 Page 13 of 49

	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
12585	1600	0.07	500	150	55	<0.5	14	384
12586	286	0.05	700	250	15	<0.5	6	200
12587	266	0.06	450	700	10	0.5	4	211
12588	3010	0.06	450	300	35	<0.5	17	317
12589	1990	0.06	350	150	30	<0.5	21	278
12590	2270	0.06	450	300	25	<0.5	18	285
12591	2870	0.07	350	300	45	<0.5	14	346
12592	2530	0.07	550	250	50	<0.5	13	409
12593	2370	0.08	600	300	55	<0.5	12	419
12594	2940	0.08	800	350	65	<0.5	19	652
12595	1230	0.09	750	200	75	<0.5	12	575
12596	2140	0.08	700	200	70	<0.5	15	559
12596 Rpt	2240	0.08	650	150	75	<0.5	16	589
12597	2330	0.08	800	200	75	<0.5	7	485
12598	1960	0.08	700	100	80	<0.5	7	503
12599	1650	0.08	650	350	75	<0.5	7	550
Std Nominal	1070	2.15	1300	1.74%	155	0.5	13	239
Determined	1110	2.23	1250	1.76%	150	0.5	13	247
12600	90	0.03	200	8.39%	15	2.5	3060	15
12601	1770	0.08	600	150	65	<0.5	3	420
12602	560	0.09	800	350	90	<0.5	7	567
12603	1370	0.08	550	300	70	<0.5	5	450
12604	2020	0.08	700	300	60	<0.5	4	390
12605	1240	0.08	750	400	95	<0.5	6	442
12605 Rpt	1240	0.08	800	450	90	<0.5	5	437
12606	1580	0.07	600	300	65	<0.5	5	408
12607	1740	0.07	800	350	85	<0.5	5	421
12608	1610	0.07	700	1050	80	<0.5	37	379
12609	1440	0.09	850	450	100	<0.5	14	533
12610	2140	0.08	1850	6850	205	<0.5	106	547
12611	954	0.05	4450	600	270	<0.5	11	450
12612	1420	0.05	2650	700	200	<0.5	4	781
12613	2840	0.04	2100	2250	180	<0.5	32	725
12614	2620	0.03	2150	1250	240	<0.5	12	560
12615	2080	0.03	2450	700	285	<0.5	37	667
12675	130	0.05	1350	100	255	<0.5	34	1260
12676	48	0.07	2750	450	125	<0.5	32	885
12677	84	0.06	3750	150	140	<0.5	27	1240
12677 Rpt	88	0.07	3700	100	145	<0.5	29	1250
12678	34	0.06	3350	150	110	<0.5	21	1130
12679	28	0.06	4850	250	80	<0.5	16	1250
12680	24	0.06	5150	150	75	0.5	17	1200
12693	456	0.05	400	250	20	<0.5	5	342



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING & LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
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Reference: u281981 Order Number: NC-002 Page 14 of 49

	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
12694	1250	0.08	650	200	60	<0.5	12	570
12695	1010	0.07	500	300	60	<0.5	6	522
12696	930	0.08	750	150	65	<0.5	4	585
Std Nominal	1180	1.30	600	1.97%	120	6.0	100	132
Determined	1180	1.29	650	1.97%	120	6.0	102	134
12697	1560	0.08	850	200	55	<0.5	6	495
12698	1520	0.08	650	150	60	<0.5	4	417
12699	1840	0.07	500	250	70	<0.5	3	392
12700	1270	0.33	100	750	145	<0.5	18	145
12701	1790	0.07	450	300	70	<0.5	3	392
12702	1660	0.08	500	200	60	<0.5	3	412
12703	1610	0.07	450	150	60	<0.5	2	395
12704	1810	0.08	650	200	55	<0.5	3	365
12704 Rpt	1790	0.07	600	250	60	<0.5	2	393
12705	1630	0.07	600	200	75	<0.5	2	413
12706	2050	0.07	500	300	60	<0.5	3	374
12707	1800	0.07	550	150	65	<0.5	3	387
12708	1680	0.08	700	350	70	<0.5	2	400
12709	1640	0.08	650	350	75	<0.5	4	397
12710	1820	0.07	600	250	80	<0.5	5	390
12711	1460	0.07	550	50	80	<0.5	3	397
12712	1270	0.06	400	100	45	<0.5	2	313
12713	536	0.04	200	350	35	<0.5	4	206
12714	1460	0.04	4100	200	210	<0.5	28	720
12715	1420	0.04	2300	150	325	<0.5	13	1120
12716	1030	0.04	2100	250	255	0.5	9	683
12717	740	0.03	2100	200	275	<0.5	5	561
12718	902	0.03	2300	450	255	<0.5	18	568
12719	2350	0.03	2400	200	240	0.5	51	1040
12720	90	0.02	200	8.23%	10	2.5	3040	17
Std Nominal	552	2.04	1000	6650	125	1.5	19	932
Determined	570	2.06	1000	6700	120	1.5	20	944
12779	126	0.06	1050	<50	85	<0.5	59	1100
12780	242	0.06	1050	250	95	<0.5	56	1090
12781	56	0.06	3750	150	65	<0.5	63	995
12782	36	0.06	3950	200	85	<0.5	92	1090
12783	56	0.06	4300	200	85	0.5	114	1250
12784	490	0.06	4700	100	160	1.5	589	1320
12784 Rpt	492	0.06	4800	150	150	1.5	617	1320
12785	528	0.06	4650	150	100	1.5	449	1260
12786	168	0.10	2150	350	100	0.5	336	973
12787	126	0.09	1000	450	75	0.5	130	637
12788	62	0.08	700	150	55	<0.5	86	583



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 15 of 49

	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
12789	58	0.06	550	250	35	<0.5	41	417
12790	48	0.09	650	300	75	0.5	76	636
12791	38	0.11	950	150	95	1.5	102	828
12791 Rpt	40	0.11	900	200	100	1.5	109	844
12792	52	0.14	1100	100	100	3.0	104	991
12793	50	0.15	1350	300	60	1.5	93	1000
12794	86	0.12	750	250	70	1.5	226	774
12795	48	0.07	400	200	65	<0.5	69	601
12796	60	0.07	450	200	60	<0.5	37	651
12797	62	0.07	650	450	65	<0.5	12	606
12798	66	0.07	700	450	65	<0.5	22	644
12799	60	0.07	650	700	60	<0.5	6	598
12800	1300	0.34	100	800	145	<0.5	17	143
12801	82	0.08	850	1450	90	<0.5	21	705
12802	90	0.08	750	1.02%	100	<0.5	35	749
12802 Rpt	90	0.09	800	1.09%	105	<0.5	37	750
12803	84	0.08	850	3150	110	<0.5	15	736
12804	82	0.08	850	2400	100	0.5	24	702
12804 Rpt	84	0.08	900	2400	100	1.0	25	704
12805	1370	0.07	700	4900	85	1.0	27	559
12806	1680	0.07	750	4500	85	<0.5	26	514
12807	1770	0.07	600	1500	85	<0.5	6	496
12808	440	0.08	800	1650	135	<0.5	24	596
12809	68	0.09	750	1.02%	150	<0.5	48	649
12810	140	0.12	1250	150	150	1.5	237	862
12885	4600	0.02	1000	200	390	<0.5	214	208
12886	1730	0.07	1050	300	180	1.0	307	680
12887	156	0.09	1150	300	90	1.0	142	917
12888	82	0.09	1000	150	80	1.0	323	875
Std Nominal	232		1850					
Determined	238	0.05	1800	400	30	<0.5	8	46
12889	88	0.09	1150	300	85	1.0	250	920
12890	86	0.08	1150	300	100	1.0	391	821
12891	138	0.09	1350	150	95	1.0	158	925
12892	76	0.09	1600	150	95	1.5	207	944
12893	66	0.09	1400	200	85	1.0	339	983
12894	54	0.09	1350	250	95	0.5	187	897
12895	46	0.09	1400	300	75	1.0	671	992
12896	56	0.09	1200	300	85	1.0	349	896
12897	72	0.09	1150	250	85	0.5	300	935
12898	48	0.09	1300	200	80	0.5	174	928
12899	56	0.09	1050	200	95	0.5	109	1030
12900	1270	0.33	100	800	145	<0.5	19	140





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MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 16 of 49

	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
12901	52	0.09	1350	150	80	0.5	124	928
Std Nominal	620		550					
Determined	610	0.06	600	250	125	<0.5	14	173
12902	48	0.09	1850	200	90	1.0	130	1010
12903	46	0.09	1150	200	85	1.0	91	949
12904	58	0.09	950	250	90	1.5	145	919
12905	50	0.09	1350	200	90	1.0	149	954
12906	52	0.09	1150	100	90	1.5	65	923
12907	54	0.09	1050	350	110	<0.5	68	973
12908	54	0.09	1150	250	110	<0.5	93	972
12909	52	0.09	950	350	115	0.5	107	925
12910	60	0.09	1000	150	160	<0.5	163	983
12911	60	0.09	850	100	200	<0.5	332	978
12911 Rpt	58	0.09	800	150	205	<0.5	359	991
12912	62	0.09	850	350	210	<0.5	233	1010
12913	102	0.09	1200	200	170	<0.5	98	1020
12913 Rpt	102	0.09	1250	200	170	<0.5	93	1100
12914	92	0.09	950	250	175	<0.5	48	1040
12915	70	0.09	850	250	180	<0.5	47	1010
12916	60	0.09	950	200	135	<0.5	15	983
12917	84	0.09	1100	200	115	<0.5	77	991
12918	604	0.09	1600	200	135	<0.5	47	1120
12919	318	0.05	4500	200	160	2.5	186	1350
12920	88	<0.01	250	8.30%	15	2.5	3090	18
12921	102	0.04	3450	200	160	1.5	42	1140
12922	54	0.05	3150	250	140	1.0	37	1040
12923	36	0.05	3400	200	95	1.0	80	1110
12924	22	0.05	3750	350	80	2.0	64	942
12925	22	0.05	4050	100	90	1.5	40	881
12926	26	0.05	4800	200	80	1.0	49	720
12927	28	0.05	2300	150	130	1.0	42	766
12928	22	0.05	1200	100	90	2.5	52	771
12929	32	0.05	1000	200	220	2.0	329	661
12929 Rpt	32	0.05	950	150	220	2.0	344	694
12930	136	0.04	550	150	110	1.0	60	718
12931	434	0.06	1000	200	95	0.5	112	860
12932	782	0.07	1150	200	135	0.5	122	683
12933	68	0.08	850	4050	140	<0.5	262	883
12934	82	0.07	700	8000	115	<0.5	284	796
12934 Rpt	78	0.07	800	7800	120	<0.5	288	808
12935	104	0.07	750	5400	125	<0.5	212	832
12936	1610	0.07	850	5300	95	1.0	154	694
12937	100	0.08	900	2250	125	<0.5	74	868



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING & LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
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Reference: u281981 Order Number: NC-002 Page 17 of 49

	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
12938	802	0.07	850	1250	100	<0.5	9	736
12939	1860	0.06	800	1000	85	<0.5	6	601
12940	1970	0.06	650	1050	75	<0.5	6	571
12941	2190	0.05	700	1100	60	<0.5	6	514
12942	2980	0.05	550	1500	60	<0.5	8	491
12943	1920	0.05	600	600	70	<0.5	3	487
Std Nominal	1070	2.15	1300	1.74%	155	0.5	13	239
Determined	1100	2.18	1250	1.74%	155	0.5	13	243
12944	1120	0.05	600	250	65	<0.5	4	480
12945	964	0.05	550	250	65	<0.5	4	479
12946	1240	0.05	650	500	55	<0.5	4	434
12947	988	0.05	1550	450	65	<0.5	5	477
12948	1030	0.05	550	600	65	<0.5	5	478
12949	1160	0.05	900	250	65	<0.5	4	483
12950	1440	0.05	650	200	65	<0.5	4	431
12951	1440	0.04	1700	850	100	<0.5	3	484
12952	1560	0.05	600	450	55	<0.5	3	450
12953	1780	0.06	550	250	60	<0.5	4	441
12953 Rpt	1790	0.06	550	200	65	<0.5	6	460
12954	1730	0.07	600	350	60	<0.5	5	446
12955	1590	0.07	550	500	60	<0.5	7	452
12956	1680	0.07	700	600	70	<0.5	5	450
12957	1510	0.07	600	900	75	<0.5	5	452
12958	1420	0.06	550	750	70	<0.5	5	411
12959	1830	0.05	250	1350	35	<0.5	14	231
12960	1280	0.33	150	750	150	<0.5	19	142
12961	1390	0.06	500	1600	65	<0.5	19	342
12962	928	0.05	200	2100	35	<0.5	15	203
12963	2570	0.03	500	1800	95	<0.5	54	196
12964	1820	0.03	3600	3650	265	<0.5	12	432
12964 Rpt	1840	0.03	3700	3750	270	<0.5	12	411
12965	1280	0.04	2050	1350	245	1.0	4	519
12966	1300	0.05	1050	1350	145	<0.5	3	335
12967	1960	0.03	2550	1050	250	<0.5	8	432
12968	1680	0.04	2200	350	205	<0.5	9	683
12969	1840	0.03	1800	800	205	<0.5	22	403
12970	872	0.03	2450	2450	265	<0.5	6	465
12971	1640	0.03	2050	2100	220	<0.5	4	430
12972	2130	0.03	1950	2800	210	<0.5	3	351
Std Nominal	1180	1.30	600	1.97%	120	6.0	100	132
Determined	1170	1.27	650	1.97%	115	6.0	98	131
12973	1600	0.05	1000	400	115	<0.5	1	341
12974	1440	0.05	950	300	100	<0.5	2	385



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 18 of 49

	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
12975	1470	0.04	2150	1200	215	<0.5	5	569
12976	1580	0.05	900	850	145	<0.5	2	343
12977	1290	0.04	1200	800	115	<0.5	5	324
12978	1690	0.05	850	400	95	<0.5	1	317
12979	1400	0.04	950	350	85	<0.5	<1	302
12980	94	0.02	200	8.43%	10	2.5	3080	16
12981	1790	0.04	300	200	45	<0.5	1	162
12981 Rpt	1820	0.04	300	150	45	<0.5	<1	160
12982	1890	0.05	550	350	85	<0.5	2	279
12983	1500	0.05	850	800	95	<0.5	3	333
12984	1880	0.04	550	250	65	<0.5	<1	242
12985	1600	0.06	500	300	85	<0.5	2	315
12986	580	0.04	2400	1100	165	<0.5	3	457
12987	2480	0.05	600	450	50	<0.5	1	251
12988	1080	0.05	1000	450	95	<0.5	2	343
12989	2060	0.05	1150	600	95	<0.5	2	299
12990	2870	0.02	600	400	140	<0.5	98	309
12991	3200	0.02	1050	200	260	<0.5	244	329
Std Nominal	552	2.04	1000	6650	125	1.5	19	932
Determined	566	2.05	1000	6700	130	1.5	19	937
12992	1900	0.05	950	200	170	<0.5	225	441
12992 Rpt	1910	0.04	850	200	170	<0.5	219	426
12993	3650	0.08	600	250	90	1.0	98	998
12994	5290	0.07	2000	200	95	1.0	533	857
12995	840	0.09	3900	150	100	1.0	112	764
12996	300	0.09	6650	250	120	1.0	90	710
12997	80	0.09	1.52%	200	100	1.0	136	735
12998	46	0.09	1.16%	350	100	1.5	168	707
12999	706	0.09	1.24%	200	85	0.5	180	725
13000	772	0.09	1.28%	300	80	0.5	195	699
13001	2.90%	0.05	6450	200	55	<0.5	579	572
13002	1.48%	0.07	1.27%	250	75	<0.5	507	657
13003	2.29%	0.04	2950	300	40	<0.5	433	519
13003 Rpt	2.32%	0.04	3150	350	40	<0.5	427	534
13004	2.90%	0.05	9200	200	50	0.5	344	923
13005	1.19%	0.09	2550	400	85	1.0	182	1230
13006	836	0.09	2500	350	105	<0.5	105	762
13006 Rpt	832	0.09	2350	300	110	<0.5	110	772
13007	452	0.09	2400	200	110	<0.5	100	827
13008	412	0.09	2650	300	90	<0.5	49	834
13009	198	0.09	2900	250	90	0.5	77	834
13010	98	0.11	3150	450	125	1.0	75	911
Std Nominal	232		1850					



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: u281981 Order Number: NC-002 Page 19 of 49

	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	234	0.06	1800	550	35	<0.5	6	43
13011	72	0.10	5900	250	125	1.5	91	833
13012	52	0.10	4150	200	95	0.5	51	830
13013	46	0.09	2350	150	95	0.5	88	807
13014	60	0.09	1.43%	200	80	1.5	253	779
13015	42	0.09	3100	300	85	<0.5	159	793
13016	148	0.09	4200	300	90	0.5	324	857
13017	64	0.11	3950	200	120	1.0	224	932
13018	74	0.10	4200	200	130	1.5	99	925
13019	38	0.09	3800	250	110	1.0	173	836
13020	1290	0.33	100	800	150	<0.5	18	131
13021	54	0.09	6300	150	80	1.0	105	893
13022	56	0.10	3350	300	90	1.5	229	827
13023	68	0.09	3150	450	85	1.5	315	830
13024	60	0.09	7250	300	75	1.5	86	866
13025	104	0.10	5650	200	80	1.5	142	892
13026	50	0.09	3250	200	90	1.0	122	842
13027	36	0.09	1550	100	85	1.0	109	809
13028	54	0.09	3350	300	90	2.5	505	791
13029	62	0.08	3750	300	90	2.0	423	734
13030	74	0.08	4000	200	85	1.5	162	781
13031	60	0.09	4650	350	110	1.5	144	768
13032	74	0.07	4300	350	110	1.5	165	673
13033	84	0.06	3550	150	85	1.5	204	631
13034	462	0.05	6100	200	90	1.0	184	670
13035	1640	0.05	3950	150	85	2.5	715	563
13036	1620	0.05	1850	150	70	1.0	372	753
13037	4110	0.04	2800	200	85	1.0	487	746
13038	5920	0.04	2300	300	100	1.0	468	910
13039	4030	0.04	4350	150	90	1.0	371	787
Std Nominal	620		550					
Determined	618	0.07	550	350	135	<0.5	33	158
13040	86	0.02	200	8.21%	15	2.5	2990	15
13041	1030	0.04	8050	100	70	1.5	105	653
13042	1730	0.04	7300	300	80	1.0	185	690
13043	858	0.05	2900	200	85	1.0	131	740
13044	452	0.05	1450	300	85	1.5	299	712
13045	302	0.07	1200	150	95	0.5	126	843
13046	180	0.08	1300	1400	120	<0.5	51	840
13046 Rpt	176	0.08	1250	1350	125	<0.5	54	835
13096	80	0.10	950	150	75	1.0	102	970
13097	54	0.10	1150	250	75	1.0	234	919
13098	48	0.10	1050	100	85	1.0	339	966



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 20 of 49

	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
13099	56	0.10	1100	200	80	1.0	185	927
13099 Rpt	54	0.10	1000	150	85	1.0	190	908
13100	50	0.10	1050	150	80	1.5	189	979
13101	44	0.10	1300	150	75	1.0	779	948
13102	114	0.10	1100	150	85	1.0	374	977
13103	58	0.09	2550	350	100	1.5	530	1200
13104	322	0.04	1150	250	140	2.0	596	1730
13105	96	0.04	1950	300	215	2.0	268	1300
13106	16	0.05	2100	200	170	1.5	36	1510
13107	26	0.04	2500	200	110	1.5	60	899
13108	62	0.04	2400	150	160	1.0	64	933
13109	28	0.04	2600	50	140	2.0	87	818
13110	28	0.03	2850	150	245	1.5	30	897
13111	26	0.03	3000	200	235	1.5	44	588
13112	154	0.03	4100	150	185	1.0	359	927
13113	112	0.05	3150	400	160	1.0	170	910
13114	40	0.04	3550	150	135	1.5	231	974
13115	190	0.04	3700	150	140	1.0	108	915
13116	622	0.05	4450	150	100	0.5	115	923
13116 Rpt	622	0.06	4500	150	95	0.5	110	862
13117	864	0.06	4000	150	100	<0.5	99	645
13118	136	0.06	4450	150	110	0.5	118	776
13119	30	0.06	4550	250	65	0.5	37	1010
13120	1280	0.34	100	800	140	<0.5	19	141
13121	26	0.06	4450	450	85	1.0	90	1120
13122	38	0.05	450	350	15	<0.5	37	255
Std Nominal	1070	2.15	1300	1.74%	155	0.5	13	239
Determined	1100	2.18	1300	1.70%	155	0.5	13	233
13123	30	0.06	450	700	20	<0.5	79	311
13124	108	0.08	650	500	40	<0.5	168	458
13125	46	0.09	750	5300	95	1.0	297	712
13126	44	0.11	1300	5500	90	0.5	189	654
13127	44	0.17	1650	6900	80	1.0	202	1040
13127 Rpt	44	0.16	1600	6950	75	1.0	198	997
13128	36	0.18	1250	9100	70	1.0	247	1090
13129	46	0.10	700	6200	85	1.0	271	762
13130	48	0.09	750	7850	90	1.0	200	752
13131	38	0.09	850	3150	85	<0.5	81	765
13132	38	0.10	950	7550	95	1.0	121	762
13133	44	0.09	950	1.10%	90	0.5	235	730
13134	44	0.10	900	9250	90	1.0	287	732
13135	48	0.09	1050	8650	90	1.0	203	732
13136	52	0.09	900	1.37%	85	1.0	240	725



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 21 of 49

	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
13137	56	0.09	950	1.08%	100	1.0	257	731
13138	52	0.09	950	1.75%	100	1.0	222	723
13139	48	0.09	1050	1.65%	95	1.0	294	663
13141	46	0.09	900	1.13%	120	1.0	327	695
13142	48	0.09	1050	6500	130	1.0	260	726
13143	58	0.08	1200	2900	135	1.0	309	823
13143 Rpt	58	0.08	1150	2800	135	0.5	304	806
13144	56	0.07	950	2700	130	1.0	256	806
13145	80	0.07	950	200	140	<0.5	54	785
13145 Rpt	78	0.07	900	150	140	<0.5	50	775
13201	328	0.04	3050	100	80	<0.5	264	2820
13202	652	0.04	3550	300	130	1.5	278	1730
13203	98	0.04	3100	200	210	2.0	288	1430
Std Nominal	1180	1.30	600	1.97%	120	6.0	100	132
Determined	1190	1.27	600	1.98%	120	6.0	105	138
13204	20	0.04	2500	100	210	2.5	125	1280
13205	20	0.04	2200	100	210	2.0	97	1230
13206	24	0.03	2600	<50	270	1.5	93	647
13207	28	0.03	2700	<50	225	1.0	86	660
13208	20	0.04	2800	<50	160	1.0	163	711
13209	26	0.05	2950	<50	80	<0.5	65	823
13210	24	0.05	3150	<50	75	0.5	57	1040
13211	22	0.05	3100	<50	85	0.5	67	1140
13212	16	0.05	3150	<50	95	0.5	83	1040
13213	16	0.05	3150	50	90	0.5	49	1170
13213 Rpt	18	0.05	3250	100	95	0.5	52	1170
13214	36	0.07	3600	100	55	1.0	110	1220
13215	78	0.04	300	200	20	<0.5	38	227
13216	60	0.04	300	100	30	<0.5	26	242
13217	84	0.05	450	100	35	<0.5	100	320
13218	72	0.04	300	150	25	<0.5	50	251
13219	62	0.07	600	9800	80	1.0	378	517
13220	62	0.07	550	9300	80	1.0	366	512
13221	Sample Not Received							
13323	50	0.05	400	150	50	<0.5	75	377
13324	58	0.09	600	3950	95	0.5	256	663
13325	60	0.05	350	500	15	<0.5	66	244
13326	38	0.07	550	1450	25	<0.5	60	415
13327	16	0.05	400	1200	15	<0.5	47	315
13328	22	0.05	300	100	10	<0.5	61	258
Std Nominal	552	2.04	1000	6650	125	1.5	19	932
Determined	566	2.07	950	6700	130	1.5	18	944
13329	32	0.08	400	800	20	<0.5	22	445



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: u281981 Order Number: NC-002 Page 22 of 49

	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
13330	668	0.07	450	6000	80	<0.5	116	567
13344	1420	0.07	600	600	75	<0.5	5	446
13345	1730	0.06	600	250	75	<0.5	4	409
13345 Rpt	1770	0.07	550	300	75	<0.5	5	422
13346	1800	0.07	550	350	70	<0.5	4	400
13347	1610	0.06	550	350	80	<0.5	4	412
13348	2710	0.06	500	900	80	<0.5	6	381
13349	3270	0.07	850	9300	120	<0.5	42	456
13350	1680	0.04	2700	550	260	<0.5	4	555
13351	1430	0.03	2400	1100	260	<0.5	4	963
13373	894	0.03	2700	1050	270	<0.5	17	691
13374	280	0.02	2900	1450	330	<0.5	20	615
13375	286	0.03	2900	1150	295	<0.5	6	734
13376	542	0.03	2750	1600	250	<0.5	13	706
13377	526	0.02	2750	4200	320	<0.5	28	641
13378	932	0.02	2550	1600	295	<0.5	23	579
13378 Rpt	896	0.03	2650	1550	300	<0.5	21	551
13379	136	0.03	2900	4050	255	0.5	37	782
13380	1300	0.34	100	800	145	<0.5	19	135
13381	1040	0.03	2500	1350	275	<0.5	19	664
13382	304	0.03	2900	1800	310	<0.5	22	826
13383	446	0.03	2750	3600	295	<0.5	54	761
13384	328	0.03	2950	3300	280	<0.5	44	701
Std Nominal	232		1850					
Determined	236	0.04	1850	300	30	<0.5	7	42
13385	108	0.05	2400	3300	195	<0.5	22	824
13386	70	0.09	2300	1.21%	150	<0.5	49	962
13387	68	0.07	650	5600	65	0.5	55	428
13388	64	0.05	500	6650	40	1.0	35	315
13388 Rpt	66	0.05	500	6550	40	1.0	34	312
13389	3480	0.06	450	5300	55	1.0	27	351
13390	2620	0.08	650	5700	70	1.5	38	527
13391	3740	0.06	350	750	70	<0.5	6	353
13392	796	0.07	850	2650	145	<0.5	10	698
13393	2690	0.03	1750	2300	160	0.5	22	754
13470	884	0.03	2450	1500	300	<0.5	15	586
13471	1030	0.03	2500	300	230	<0.5	4	706
13472	270	0.03	2800	300	285	<0.5	7	765
13473	206	0.03	2900	250	340	<0.5	9	554
13474	116	0.03	2900	400	345	0.5	5	623
13475	1030	0.03	2800	450	285	<0.5	6	653
13476	216	0.03	2950	600	280	<0.5	15	646
13477	164	0.03	2950	1450	290	<0.5	10	750



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: u281981 Order Number: NC-002 Page 23 of 49

	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
13478	568	0.03	2800	800	295	<0.5	9	746
13478 Rpt	550	0.03	2850	750	295	<0.5	9	757
13479	164	0.03	2850	600	330	<0.5	12	587
13481	1540	0.04	2400	1350	265	0.5	37	821
13482	410	0.03	2850	1150	310	<0.5	41	757
13483	222	0.03	3150	550	280	<0.5	26	665
13484	794	0.03	2800	1100	280	<0.5	26	686
13485	4680	0.07	600	200	85	<0.5	1	332
13485 Rpt	4630	0.07	600	150	85	<0.5	2	342
13486	4060	0.08	650	200	95	<0.5	3	450
13487	5430	0.05	250	150	45	<0.5	3	186
13488	4680	0.06	350	400	55	0.5	21	378
13489	4500	0.06	300	400	70	<0.5	24	322
13490	3030	0.09	400	3650	80	<0.5	8	769
13491	3090	0.07	300	1550	75	0.5	16	392
13492	1900	0.03	2350	7400	150	<0.5	9	456
Std Nominal	620		550					
Determined	622	0.06	550	250	135	0.5	32	163
13493	1770	0.03	2200	3550	235	<0.5	13	917
13494	1530	0.03	2100	5450	235	0.5	12	520
13508	310	0.03	2200	400	210	1.0	3	366
13509	230	0.03	2700	450	260	<0.5	2	300
13510	172	0.02	3200	3350	285	1.5	9	569
13511	640	0.03	3100	1350	275	1.0	15	369
13512	3870	0.03	1700	1.03%	220	<0.5	21	510
13513	5780	0.03	350	850	50	<0.5	1	144
13514	5790	0.03	300	800	35	<0.5	<1	153
13515	6180	0.03	250	850	40	<0.5	5	149
13516	Sample Not Received							
13517	Sample Not Received							
13518	Sample Not Received							
13519	Sample Not Received							
13521	Sample Not Received							
13522	Sample Not Received							
13523	Sample Not Received							
13524	Sample Not Received							
13525	Sample Not Received							
13526	Sample Not Received							
13527	Sample Not Received							
13528	Sample Not Received							





Reference: u281981 Order Number: NC-002 Page 24 of 49

	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
13529	Sample Not Received							
13530	Sample Not Received							
13531	Sample Not Received							
13532	Sample Not Received							
13533	Sample Not Received							
13534	Sample Not Received							
13535	Sample Not Received							
13536	Sample Not Received							
13588	Sample Not Received							
13589	Sample Not Received							
13590	Sample Not Received							
13591	Sample Not Received							
13592	Sample Not Received							
13593	Sample Not Received							
13594	Sample Not Received							
13595	Sample Not Received							
13596	Sample Not Received							
13597	Sample Not Received							
13598	Sample Not Received							
13599	Sample Not Received							
13600	Sample Not Received							
13480	200	0.02	2850	750	325	<0.5	9	562
13140	90	<0.01	200	8.31%	10	3.0	3000	15
13140 Rpt	90	<0.01	200	8.44%	10	3.0	2940	14
Std Nominal	1070	2.15	1300	1.74%	155	0.5	13	239
Determined	1080	2.13	1250	1.75%	155	0.5	14	245
Std Nominal								
Determined	NR	NR	NR	NR	NR	NR	NR	NR

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MINERAL TESTING & LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 Australia

Telephone (08) 9456 0404  
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Reference: u281981 Order Number: NC-002 Page 25 of 49

	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
12585	0.3	<0.5	280	414	8.0	1.0	46	7
12586	<0.1	<0.5	30	152	3.5	1.0	20	4
12587	<0.1	<0.5	35	118	3.0	1.5	36	5
12588	0.2	<0.5	50	106	5.5	1.0	30	6
12589	<0.1	<0.5	75	234	4.0	0.5	44	5
12590	<0.1	<0.5	45	138	4.0	<0.5	42	5
12591	0.1	<0.5	30	72	8.5	<0.5	32	6
12592	0.2	<0.5	30	38	12.5	<0.5	30	6
12593	0.4	<0.5	265	22	15.0	<0.5	28	7
12594	0.2	<0.5	105	18	14.5	0.5	34	7
12595	0.3	<0.5	50	16	15.0	1.0	36	10
12596	0.2	<0.5	30	14	12.0	0.5	30	8
12596 Rpt	0.3	<0.5	30	12	13.0	<0.5	28	8
12597	0.4	<0.5	20	4	11.5	<0.5	28	8
12598	0.3	<0.5	20	8	16.0	0.5	30	10
12599	0.4	<0.5	20	8	14.5	0.5	30	11
Std Nominal	<0.1	<0.5	155	316	7.5	2.0	6930	3
Determined	<0.1	<0.5	155	320	7.5	1.5	6870	4
12600	48.7	<0.5	2440	3.18%	11.0	10.0	118	452
12601	0.5	<0.5	20	18	10.0	0.5	22	10
12602	0.4	<0.5	20	26	15.5	<0.5	32	9
12603	0.3	<0.5	20	22	11.5	1.0	36	9
12604	0.2	<0.5	10	8	10.5	0.5	26	6
12605	0.2	<0.5	25	6	12.5	<0.5	28	7
12605 Rpt	0.2	<0.5	25	8	13.0	<0.5	30	7
12606	0.4	<0.5	35	10	11.5	0.5	30	6
12607	0.4	<0.5	70	10	12.5	0.5	38	6
12608	0.5	<0.5	70	10	10.0	0.5	24	7
12609	0.2	<0.5	60	18	15.0	0.5	44	7
12610	6.8	<0.5	135	14	14.5	14.0	64	36
12611	1.0	<0.5	60	22	46.0	1.0	30	13
12612	0.3	<0.5	50	22	17.5	0.5	16	7
12613	1.0	<0.5	60	10	11.0	1.0	28	7
12614	0.3	<0.5	95	40	15.0	<0.5	20	10
12615	0.1	<0.5	205	46	14.0	1.0	20	8
12675	0.6	<0.5	35	260	7.5	2.5	18	9
12676	0.3	<0.5	70	158	3.5	3.0	84	7
12677	0.4	<0.5	125	412	7.5	2.5	110	8
12677 Rpt	0.4	<0.5	130	408	7.5	2.5	110	7
12678	0.4	<0.5	50	504	3.5	1.5	44	8
12679	0.5	<0.5	30	204	2.0	1.0	18	10
12680	0.5	<0.5	25	198	2.0	1.0	22	10
12693	0.2	<0.5	65	78	5.5	1.5	40	5



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: u281981 Order Number: NC-002 Page 26 of 49

	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
12694	0.7	<0.5	40	10	18.0	0.5	26	7
12695	0.1	<0.5	20	2	16.5	<0.5	32	6
12696	0.1	<0.5	20	4	17.0	0.5	26	6
Std Nominal	3.0	9.0	45	1500	9.5	67.0	74	521
Determined	2.9	9.0	45	1520	9.0	65.0	72	519
12697	0.2	<0.5	80	8	10.0	1.0	8	8
12698	0.4	<0.5	20	10	9.0	0.5	26	10
12699	0.3	<0.5	10	10	9.5	0.5	8	10
12700	<0.1	<0.5	450	80	10.5	1.0	5090	8
12701	0.4	<0.5	10	10	10.0	0.5	28	10
12702	0.3	<0.5	10	4	10.0	0.5	20	9
12703	0.4	<0.5	15	4	8.5	0.5	14	10
12704	0.4	<0.5	10	4	9.0	0.5	20	9
12704 Rpt	0.4	<0.5	10	6	9.5	0.5	18	8
12705	0.5	<0.5	10	6	9.5	0.5	20	12
12706	0.4	<0.5	15	8	9.5	1.0	22	11
12707	0.4	<0.5	10	4	10.0	1.0	4	11
12708	0.3	<0.5	15	8	10.0	0.5	24	10
12709	0.4	<0.5	10	12	9.5	1.0	20	11
12710	0.3	<0.5	15	18	9.0	1.0	18	8
12711	0.3	<0.5	15	10	10.0	1.5	12	10
12712	0.3	<0.5	10	32	7.0	1.0	12	6
12713	0.2	<0.5	10	70	5.5	2.5	8	5
12714	0.7	<0.5	30	38	36.0	2.0	8	17
12715	0.2	<0.5	40	34	18.5	1.0	22	6
12716	0.4	<0.5	40	14	21.5	0.5	16	7
12717	0.2	<0.5	45	12	20.5	1.0	18	5
12718	0.1	<0.5	55	8	15.5	1.0	10	5
12719	0.1	<0.5	70	10	18.0	1.0	18	4
12720	49.1	<0.5	2450	3.22%	10.0	10.0	116	440
Std Nominal	2.6		15	5310	30.5	319	38	24
Determined	2.7	<0.5	20	5330	29.5	312	38	24
12779	0.3	<0.5	185	360	4.0	5.0	90	7
12780	0.3	<0.5	315	366	4.5	3.0	82	8
12781	0.3	<0.5	140	434	2.5	4.0	88	6
12782	0.5	<0.5	190	408	5.5	3.0	120	8
12783	0.7	<0.5	590	602	6.0	3.0	206	13
12784	1.2	0.5	1.06%	2600	6.5	13.5	718	60
12784 Rpt	1.2	0.5	1.10%	2640	6.5	14.0	736	58
12785	3.8	0.5	7560	2270	2.5	8.5	602	50
12786	0.4	<0.5	1120	7590	8.5	4.0	390	19
12787	0.4	<0.5	2050	1740	9.0	3.0	220	14
12788	0.4	<0.5	2000	2050	13.0	3.0	330	13



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: u281981 Order Number: NC-002 Page 27 of 49

	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
12789	0.4	<0.5	200	2990	11.0	1.5	200	8
12790	0.6	<0.5	200	4120	16.0	1.5	362	14
12791	1.6	<0.5	290	2640	12.5	1.5	380	24
12791 Rpt	1.6	<0.5	290	2660	11.5	1.0	388	24
12792	2.5	<0.5	1190	2130	8.0	1.5	1300	43
12793	1.4	<0.5	1230	566	7.0	1.5	992	56
12794	2.9	<0.5	6800	1650	10.5	3.0	1030	80
12795	1.0	<0.5	340	494	19.0	0.5	620	28
12796	0.6	<0.5	545	296	20.5	0.5	624	28
12797	0.4	<0.5	320	122	19.5	<0.5	374	19
12798	0.5	<0.5	365	228	17.0	0.5	314	39
12799	0.4	<0.5	315	88	17.0	<0.5	260	23
12800	<0.1	<0.5	445	78	10.0	1.0	5030	8
12801	0.7	1.0	595	122	19.5	0.5	388	26
12802	1.2	<0.5	630	92	22.5	1.0	362	16
12802 Rpt	1.2	<0.5	650	90	21.0	1.0	378	16
12803	0.6	0.5	810	428	18.0	0.5	434	13
12804	1.0	<0.5	815	478	17.5	<0.5	388	17
12804 Rpt	1.0	<0.5	785	478	18.5	<0.5	380	18
12805	0.6	<0.5	395	134	14.5	0.5	168	8
12806	0.7	<0.5	260	72	13.0	1.0	108	11
12807	0.3	<0.5	175	142	13.5	1.0	120	17
12808	0.5	<0.5	690	412	17.5	2.0	470	20
12809	1.0	<0.5	6980	1750	18.0	5.5	4050	78
12810	3.8	<0.5	6900	586	13.5	6.5	1380	243
12885	0.6	<0.5	1520	1370	28.5	11.0	248	31
12886	1.2	<0.5	810	1240	21.0	6.0	256	27
12887	1.4	<0.5	190	888	15.0	1.5	230	20
12888	1.3	<0.5	115	2310	13.5	1.5	212	23
Std Nominal			1600	9990				
Determined	2.7	<0.5	1700	1.05%	17.0	3.0	70	10
12889	0.8	<0.5	980	7680	16.0	3.0	340	24
12890	1.3	<0.5	2960	7920	17.0	6.5	252	25
12891	1.4	<0.5	155	1660	13.5	2.5	196	23
12892	1.7	<0.5	125	726	13.5	2.5	210	27
12893	1.4	<0.5	75	2690	13.5	1.0	154	21
12894	1.2	<0.5	75	1200	13.5	1.0	170	20
12895	1.2	<0.5	135	1490	12.5	1.5	224	20
12896	1.4	<0.5	115	1050	14.5	1.0	240	21
12897	0.8	<0.5	145	1790	16.0	1.5	290	30
12898	0.9	<0.5	155	3450	13.5	1.0	298	21
12899	0.7	<0.5	225	2320	16.5	1.5	434	19
12900	<0.1	<0.5	450	78	10.5	1.0	5010	8



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 28 of 49

	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
12901	0.9	<0.5	280	3500	15.0	1.0	490	18
Std Nominal			1.50%	4480				
Determined	3.4	<0.5	1.47%	4370	201	2.0	22	13
12902	1.0	<0.5	200	2960	14.5	2.0	316	20
12903	1.2	<0.5	150	4670	15.0	1.0	212	18
12904	1.4	<0.5	145	3410	15.0	2.5	212	26
12905	0.8	<0.5	115	1410	13.0	8.0	182	21
12906	0.7	<0.5	60	2470	13.0	4.0	138	14
12907	0.5	<0.5	75	1090	15.0	4.0	144	15
12908	0.5	<0.5	70	546	15.5	5.0	148	17
12909	0.7	<0.5	50	1250	15.0	0.5	122	22
12910	0.7	<0.5	100	1850	21.0	1.0	192	34
12911	0.9	<0.5	100	1710	18.5	1.0	230	34
12911 Rpt	0.9	<0.5	100	1730	18.0	1.0	238	35
12912	0.6	<0.5	160	1360	23.0	3.0	366	25
12913	0.4	<0.5	795	728	17.0	1.5	354	15
12913 Rpt	0.5	<0.5	795	716	17.0	1.5	360	16
12914	0.4	<0.5	460	652	20.5	0.5	306	13
12915	0.4	<0.5	220	742	19.0	0.5	390	11
12916	0.3	<0.5	115	534	17.5	0.5	306	9
12917	0.3	<0.5	135	402	16.0	1.5	260	12
12918	0.3	<0.5	720	848	14.0	1.5	342	18
12919	2.5	<0.5	2500	1010	12.5	5.5	392	43
12920	47.6	<0.5	2430	3.25%	10.5	9.5	118	456
12921	0.8	<0.5	880	680	18.5	2.0	566	23
12922	0.6	<0.5	360	492	12.5	1.5	382	12
12923	1.0	<0.5	235	402	6.5	2.0	266	15
12924	1.2	<0.5	270	388	7.0	2.0	294	20
12925	0.9	<0.5	210	270	4.5	1.5	210	19
12926	0.9	<0.5	195	240	3.0	2.0	166	29
12927	1.1	<0.5	475	506	7.5	1.0	500	31
12928	2.4	<0.5	965	390	3.0	1.0	1170	31
12929	1.9	0.5	550	918	5.0	2.0	706	49
12929 Rpt	2.0	0.5	555	934	5.5	2.5	728	49
12930	0.7	<0.5	610	464	5.0	1.0	394	19
12931	0.7	<0.5	3350	690	7.0	4.5	596	22
12932	0.6	<0.5	1380	780	17.0	1.5	700	17
12933	0.5	<0.5	380	286	25.0	0.5	454	17
12934	0.5	1.0	445	26	28.5	1.0	400	19
12934 Rpt	0.5	1.0	435	30	30.0	1.0	392	20
12935	0.5	0.5	385	24	28.5	1.0	372	12
12936	0.5	<0.5	190	34	21.5	1.0	166	10
12937	0.2	<0.5	155	18	26.0	<0.5	128	8



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: u281981 Order Number: NC-002 Page 29 of 49

	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
12938	0.1	<0.5	120	10	24.0	<0.5	76	5
12939	0.1	<0.5	115	6	22.0	<0.5	70	5
12940	0.1	<0.5	110	14	20.5	<0.5	58	5
12941	0.2	<0.5	160	6	21.5	<0.5	48	4
12942	0.1	<0.5	115	8	16.0	<0.5	32	5
12943	0.1	<0.5	60	4	17.5	<0.5	38	5
Std Nominal	<0.1	<0.5	155	316	7.5	2.0	6930	3
Determined	<0.1	<0.5	160	320	8.0	2.0	7090	3
12944	0.1	<0.5	30	10	15.5	<0.5	40	6
12945	0.1	<0.5	25	22	12.5	0.5	30	7
12946	<0.1	<0.5	20	14	10.5	1.0	18	5
12947	0.1	<0.5	20	8	11.5	1.0	30	9
12948	<0.1	<0.5	10	10	12.0	0.5	22	6
12949	<0.1	<0.5	15	8	10.5	1.0	18	4
12950	0.1	<0.5	20	16	11.0	1.0	10	7
12951	0.1	<0.5	10	10	10.0	0.5	12	4
12952	<0.1	<0.5	15	10	10.5	1.0	20	5
12953	0.3	<0.5	15	6	11.5	1.0	18	9
12953 Rpt	0.3	<0.5	15	8	12.5	1.0	20	9
12954	0.3	<0.5	20	10	12.5	1.0	36	8
12955	0.3	<0.5	20	8	12.5	1.0	20	9
12956	0.2	<0.5	15	4	13.0	0.5	18	7
12957	0.2	<0.5	20	10	13.5	1.0	28	8
12958	0.3	<0.5	30	16	12.5	1.0	14	7
12959	0.8	<0.5	15	16	7.0	14.0	14	5
12960	<0.1	<0.5	450	80	11.5	1.0	5030	7
12961	0.5	<0.5	20	10	12.0	9.0	18	6
12962	1.0	<0.5	20	14	7.0	26.5	8	6
12963	1.7	<0.5	35	66	6.0	7.5	22	7
12964	0.3	<0.5	35	80	35.0	1.0	20	7
12964 Rpt	0.3	<0.5	30	82	34.5	1.0	18	7
12965	0.3	<0.5	30	84	14.0	3.0	18	6
12966	0.3	<0.5	155	216	15.0	1.0	14	6
12967	0.2	<0.5	40	130	11.0	0.5	6	4
12968	0.2	<0.5	60	64	4.0	1.5	12	4
12969	<0.1	<0.5	60	88	4.5	1.0	10	3
12970	0.3	<0.5	75	210	12.5	0.5	26	4
12971	0.3	<0.5	30	18	11.5	0.5	10	4
12972	0.5	<0.5	35	70	12.5	1.0	18	6
Std Nominal	3.0	9.0	45	1500	9.5	67.0	74	521
Determined	3.0	9.0	50	1480	9.5	66.0	78	512
12973	0.2	<0.5	25	66	11.5	1.5	26	6
12974	0.1	<0.5	20	16	9.5	1.0	10	6



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 30 of 49

	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
12975	0.2	<0.5	45	30	2.5	1.5	4	4
12976	0.2	<0.5	25	4	13.5	1.0	24	5
12977	0.2	<0.5	15	8	8.5	3.0	6	4
12978	0.2	<0.5	25	6	9.5	1.0	12	8
12979	<0.1	<0.5	20	4	15.0	1.5	20	4
12980	47.6	<0.5	2440	3.17%	10.0	10.0	120	448
12981	<0.1	<0.5	15	10	5.5	2.5	6	5
12981 Rpt	<0.1	<0.5	10	8	5.5	3.0	8	4
12982	0.1	<0.5	15	14	13.0	1.0	22	5
12983	0.2	<0.5	25	18	14.0	1.0	12	6
12984	<0.1	<0.5	15	14	10.5	1.5	2	4
12985	0.2	<0.5	10	10	13.0	1.5	6	7
12986	<0.1	<0.5	25	8	15.5	3.0	14	3
12987	0.2	<0.5	20	10	9.5	1.5	10	5
12988	0.2	<0.5	20	14	12.0	1.5	20	8
12989	0.4	<0.5	30	20	13.0	1.0	28	5
12990	0.6	<0.5	455	652	17.5	4.5	72	40
12991	0.6	<0.5	740	1500	23.0	7.0	136	39
Std Nominal	2.6		15	5310	30.5	319	38	24
Determined	2.6	0.5	20	5220	29.5	308	40	23
12992	0.5	<0.5	610	1630	21.0	6.0	122	33
12992 Rpt	0.5	<0.5	585	1590	20.0	5.5	126	32
12993	1.3	<0.5	2660	4490	13.0	6.0	676	47
12994	1.3	0.5	3320	7080	9.0	13.0	1360	43
12995	0.7	<0.5	690	2070	7.5	4.0	332	36
12996	0.8	<0.5	150	786	6.5	3.0	134	32
12997	1.2	<0.5	145	1160	6.5	3.5	298	37
12998	1.7	0.5	155	1290	6.5	3.5	312	35
12999	0.5	0.5	305	2960	6.5	4.0	172	32
13000	0.5	<0.5	315	3340	6.0	4.5	184	32
13001	0.3	1.5	2580	1.30%	11.0	22.5	716	18
13002	0.5	2.0	3410	8870	10.5	15.5	1840	20
13003	0.2	1.5	3550	7700	7.0	23.5	1620	10
13003 Rpt	0.2	1.5	3470	7700	7.0	24.0	1650	10
13004	0.9	2.0	4070	1.12%	10.5	18.0	612	23
13005	0.7	1.0	5030	6270	8.0	8.5	698	36
13006	0.5	<0.5	200	5280	6.0	4.0	182	24
13006 Rpt	0.5	<0.5	195	5260	6.5	4.0	182	25
13007	0.4	<0.5	105	2510	5.5	3.5	120	26
13008	0.3	<0.5	120	1.07%	5.5	2.5	112	24
13009	0.3	<0.5	90	5010	6.5	3.0	112	24
13010	1.0	<0.5	60	4020	5.5	3.0	84	34
Std Nominal			1600	9990				



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: u281981 Order Number: NC-002 Page 31 of 49

	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	2.7	<0.5	1680	1.05%	18.0	3.0	46	10
13011	5.8	<0.5	80	5860	6.5	3.0	98	52
13012	0.5	<0.5	1740	1780	6.0	6.0	276	27
13013	0.3	<0.5	80	1230	5.5	3.0	166	24
13014	2.6	<0.5	170	1.55%	5.0	5.5	238	41
13015	0.3	<0.5	400	1300	5.0	8.5	110	17
13016	0.5	1.0	1020	1330	4.5	16.5	168	19
13017	0.9	0.5	215	1290	5.5	10.0	334	26
13018	1.0	<0.5	300	1620	6.5	4.0	554	27
13019	0.9	<0.5	165	2960	6.0	5.5	306	29
13020	<0.1	<0.5	455	76	10.0	1.0	5060	7
13021	0.7	<0.5	140	6900	8.5	2.5	226	31
13022	0.9	0.5	145	1180	7.5	3.5	196	38
13023	0.9	0.5	210	1810	11.0	3.0	294	44
13024	0.7	0.5	135	1120	6.5	3.5	184	43
13025	0.5	<0.5	235	840	10.5	8.0	346	36
13026	0.4	<0.5	225	448	7.0	7.0	292	27
13027	0.4	<0.5	145	480	6.0	5.0	204	21
13028	1.1	0.5	160	6760	8.5	7.5	276	42
13029	1.2	<0.5	145	6250	9.5	6.0	272	43
13030	0.9	<0.5	95	5210	9.0	3.0	166	27
13031	0.7	<0.5	160	1540	11.5	4.0	270	29
13032	0.7	<0.5	620	1130	15.0	7.0	336	30
13033	0.8	<0.5	270	1280	13.0	5.5	340	28
13034	1.1	<0.5	1170	1380	15.0	12.0	334	22
13035	1.6	1.0	6100	3640	6.5	21.0	880	34
13036	1.0	0.5	1480	2620	11.0	8.0	670	17
13037	1.1	1.0	2110	2960	14.5	12.0	902	23
13038	1.0	1.5	2210	3500	15.0	8.5	1400	24
13039	1.3	1.0	1920	2860	12.5	8.5	1140	24
Std Nominal			1.50%	4480				
Determined	3.5	<0.5	1.48%	4450	218	2.5	20	13
13040	48.9	<0.5	2370	3.18%	11.5	10.0	114	447
13041	2.3	<0.5	910	1280	7.5	10.5	636	21
13042	1.9	<0.5	1370	1740	9.0	12.5	698	26
13043	1.4	<0.5	1170	790	5.5	4.5	396	87
13044	1.6	0.5	1450	590	4.5	3.5	458	134
13045	0.6	0.5	1100	280	6.5	2.5	414	28
13046	0.6	<0.5	310	170	22.0	1.5	224	19
13046 Rpt	0.6	<0.5	290	166	23.0	2.0	212	19
13096	1.0	<0.5	145	944	16.5	1.0	248	24
13097	1.0	<0.5	205	1280	16.5	1.5	352	18
13098	1.1	<0.5	225	1330	18.5	1.0	482	22





Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 AustraliaTelephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 32 of 49

	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
13099	1.6	<0.5	250	1090	16.5	0.5	570	21
13099 Rpt	1.6	<0.5	250	1120	17.5	0.5	574	21
13100	1.6	<0.5	245	1110	18.5	0.5	586	21
13101	1.2	0.5	7620	3330	17.5	3.0	2020	34
13102	1.1	<0.5	535	1390	14.0	3.0	696	33
13103	1.9	1.0	7270	3110	9.0	11.0	840	33
13104	3.3	0.5	1.12%	1580	15.0	48.0	632	41
13105	3.4	0.5	2160	740	24.0	10.5	386	69
13106	4.3	<0.5	180	440	15.0	1.5	236	29
13107	2.1	<0.5	400	1620	15.0	1.5	1000	21
13108	1.2	<0.5	1610	1870	15.5	3.0	858	22
13109	2.8	<0.5	660	2890	20.0	3.0	1330	41
13110	1.5	<0.5	225	1180	35.0	1.0	510	46
13111	1.6	<0.5	305	1060	41.0	1.5	490	19
13112	1.7	1.0	5610	2650	18.5	10.0	1340	48
13113	1.5	0.5	1830	3920	16.0	3.0	2710	25
13114	3.8	0.5	815	1750	11.0	3.0	1390	30
13115	3.6	<0.5	1470	1570	8.0	3.0	1220	31
13116	1.7	<0.5	4050	1140	1.0	7.5	332	22
13116 Rpt	1.8	<0.5	4060	1140	0.5	7.0	340	23
13117	1.0	<0.5	3770	1130	0.5	7.0	296	17
13118	1.9	<0.5	2850	790	1.0	5.0	246	25
13119	1.5	<0.5	215	330	1.5	2.0	120	12
13120	<0.1	<0.5	455	76	10.0	1.0	4940	8
13121	4.1	<0.5	345	340	2.5	3.0	154	23
13122	0.3	<0.5	125	440	6.5	3.0	84	7
Std Nominal	<0.1	<0.5	155	316	7.5	2.0	6930	3
Determined	<0.1	<0.5	160	314	7.0	2.0	6720	3
13123	0.3	<0.5	230	1770	8.5	3.0	268	15
13124	0.5	<0.5	2880	674	8.5	4.0	358	38
13125	2.1	0.5	3970	1780	19.0	11.0	2240	27
13126	1.0	<0.5	2710	284	13.0	5.5	1490	38
13127	1.2	0.5	2940	1730	7.0	4.0	1400	39
13127 Rpt	1.2	0.5	2940	1700	6.5	3.5	1380	39
13128	1.3	<0.5	2560	466	9.5	2.5	1250	52
13129	1.2	<0.5	2790	310	21.0	4.5	1460	26
13130	1.1	<0.5	2830	228	19.5	3.0	1530	25
13131	0.5	<0.5	630	52	15.0	2.0	324	12
13132	0.9	<0.5	2460	578	13.5	3.0	1210	19
13133	1.0	<0.5	2690	796	16.5	2.5	1230	22
13134	1.6	<0.5	2580	152	14.0	2.0	1250	61
13135	1.6	<0.5	2280	102	14.0	1.0	1280	29
13136	1.5	1.0	4770	954	14.5	3.0	2310	140



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
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Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 33 of 49

	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
13137	1.6	0.5	3860	590	17.5	2.0	2120	270
13138	1.2	<0.5	5050	1620	17.5	2.5	2610	127
13139	1.8	3.5	6810	2840	16.5	3.0	3590	404
13141	1.8	<0.5	5440	538	16.5	3.0	2970	337
13142	1.5	<0.5	2900	1380	16.5	2.0	1620	94
13143	0.9	<0.5	615	3100	25.5	0.5	652	36
13143 Rpt	0.9	<0.5	600	3120	23.5	0.5	626	38
13144	0.8	<0.5	590	1790	29.0	<0.5	582	25
13145	0.4	<0.5	390	540	30.5	<0.5	382	17
13145 Rpt	0.4	<0.5	380	532	28.0	<0.5	362	17
13201	0.6	<0.5	1640	1220	6.5	11.0	184	15
13202	1.6	<0.5	2010	970	14.0	12.0	232	24
13203	3.5	0.5	300	1400	25.0	7.5	224	32
Std Nominal	3.0	9.0	45	1500	9.5	67.0	74	521
Determined	2.9	9.5	45	1520	9.0	66.5	76	519
13204	3.0	<0.5	200	1890	21.5	2.5	216	31
13205	3.5	<0.5	130	4110	26.5	2.0	200	21
13206	2.6	<0.5	135	4270	37.5	1.5	302	27
13207	3.1	<0.5	190	984	23.0	2.5	248	25
13208	4.1	<0.5	275	896	9.5	5.0	296	27
13209	1.5	<0.5	270	512	4.5	2.0	134	15
13210	1.6	<0.5	120	290	4.0	2.5	126	11
13211	2.1	<0.5	160	302	4.0	3.0	172	13
13212	2.6	<0.5	105	386	4.5	3.0	110	17
13213	2.1	<0.5	100	316	2.5	1.5	56	14
13213 Rpt	2.1	<0.5	100	316	3.0	1.5	54	14
13214	2.4	<0.5	200	564	4.0	2.5	148	21
13215	0.6	<0.5	190	208	6.5	2.0	108	13
13216	0.8	<0.5	220	272	8.0	1.5	106	13
13217	0.5	<0.5	1470	2020	10.0	3.0	232	14
13218	0.4	<0.5	235	300	10.5	1.5	168	11
13219	2.2	<0.5	3340	250	24.0	2.5	2150	50
13220	2.2	<0.5	3210	228	22.5	2.0	2060	46
13221	Sample Not Received							
13323	0.8	<0.5	195	400	10.5	1.5	216	8
13324	2.1	<0.5	870	2470	20.5	1.0	492	18
13325	0.5	<0.5	300	452	6.5	1.5	190	6
13326	2.2	<0.5	500	838	6.5	1.5	376	11
13327	1.0	<0.5	560	1350	6.0	1.5	358	9
13328	0.3	<0.5	230	1800	4.0	2.0	110	6
Std Nominal	2.6		15	5310	30.5	319	38	24
Determined	2.6	<0.5	20	5280	29.0	324	36	24
13329	0.5	<0.5	240	1070	9.0	0.5	152	10



Bureau Veritas Minerals Pty Ltd



MINERAL TESTING &amp; LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
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Reference: u281981 Order Number: NC-002 Page 34 of 49

	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
13330	1.2	<0.5	250	328	21.5	1.0	148	11
13344	0.3	<0.5	15	12	11.5	1.0	16	8
13345	0.3	<0.5	15	10	10.5	1.0	16	9
13345 Rpt	0.4	<0.5	20	12	10.5	1.0	18	9
13346	0.3	<0.5	15	8	9.0	1.0	16	9
13347	0.4	<0.5	30	10	10.0	1.0	18	9
13348	0.4	<0.5	25	4	13.5	1.0	22	6
13349	4.1	<0.5	25	8	12.0	42.0	12	13
13350	0.2	<0.5	25	10	34.0	<0.5	10	5
13351	0.1	<0.5	55	30	21.5	0.5	12	4
13373	0.4	<0.5	70	18	24.0	0.5	38	8
13374	0.5	<0.5	85	24	43.0	<0.5	62	15
13375	0.3	<0.5	100	46	23.0	0.5	78	8
13376	<0.1	<0.5	110	26	21.0	1.0	86	6
13377	0.2	<0.5	260	50	26.0	1.0	162	9
13378	0.1	<0.5	85	12	28.0	1.0	48	6
13378 Rpt	0.1	<0.5	85	10	26.0	0.5	46	5
13379	0.4	<0.5	285	60	23.0	2.5	204	8
13380	<0.1	<0.5	455	80	10.5	1.0	5090	7
13381	0.1	<0.5	80	6	19.0	2.0	56	5
13382	0.3	<0.5	100	10	23.0	1.5	74	7
13383	1.0	<0.5	110	22	23.0	1.0	72	13
13384	0.6	<0.5	120	18	19.0	0.5	70	15
Std Nominal			1600	9990				
Determined	2.5	<0.5	1650	1.01%	15.0	3.0	60	9
13385	0.4	<0.5	145	32	17.5	<0.5	108	15
13386	0.3	<0.5	1550	6500	19.5	1.5	888	21
13387	0.3	<0.5	1600	1960	12.0	1.5	916	22
13388	0.3	<0.5	2300	446	9.0	1.5	902	31
13388 Rpt	0.3	<0.5	2280	444	9.0	1.5	906	31
13389	0.2	<0.5	1450	100	6.5	0.5	636	12
13390	0.4	<0.5	1590	106	7.5	1.0	774	15
13391	0.2	<0.5	125	46	8.0	1.0	66	8
13392	0.4	<0.5	130	44	26.0	1.5	66	13
13393	0.4	<0.5	50	28	18.0	0.5	22	9
13470	<0.1	<0.5	30	2	23.0	0.5	18	4
13471	<0.1	<0.5	20	8	17.0	0.5	10	3
13472	0.1	<0.5	30	4	19.5	0.5	16	4
13473	0.1	<0.5	35	2	22.5	<0.5	18	5
13474	0.2	<0.5	40	4	29.0	<0.5	24	5
13475	<0.1	<0.5	35	16	18.5	1.0	16	4
13476	<0.1	<0.5	55	6	28.0	1.0	30	5
13477	0.2	<0.5	60	2	23.0	0.5	26	7



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  
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Reference: u281981 Order Number: NC-002 Page 35 of 49

	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
13478	0.2	<0.5	70	12	23.0	0.5	22	6
13478 Rpt	0.2	<0.5	75	10	23.5	0.5	22	6
13479	<0.1	<0.5	60	4	35.0	2.0	36	5
13481	<0.1	<0.5	60	12	16.0	1.5	24	5
13482	0.2	<0.5	75	16	20.0	2.5	42	7
13483	0.2	<0.5	65	6	21.0	1.0	32	8
13484	0.1	<0.5	60	6	30.0	1.0	40	10
13485	<0.1	<0.5	25	36	15.0	<0.5	20	6
13485 Rpt	<0.1	<0.5	25	36	14.5	<0.5	18	6
13486	<0.1	<0.5	25	8	16.0	1.0	20	8
13487	<0.1	<0.5	10	8	5.5	<0.5	10	3
13488	<0.1	<0.5	40	12	9.0	1.0	24	7
13489	<0.1	<0.5	40	24	10.5	1.0	26	7
13490	0.5	<0.5	15	16	12.0	1.5	12	13
13491	0.3	<0.5	75	104	16.5	1.0	16	9
13492	0.7	<0.5	20	22	15.5	2.5	8	12
Std Nominal			1.50%	4480				
Determined	3.5	<0.5	1.52%	4520	199	2.5	20	13
13493	0.2	<0.5	30	22	14.5	1.0	10	6
13494	0.4	<0.5	40	66	12.0	1.5	8	7
13508	0.2	<0.5	35	6	49.5	1.0	8	8
13509	0.4	<0.5	60	22	45.5	0.5	28	7
13510	0.4	<0.5	190	206	52.0	<0.5	78	7
13511	1.0	<0.5	110	32	33.0	<0.5	54	12
13512	0.3	<0.5	70	142	15.5	2.0	20	11
13513	<0.1	<0.5	10	12	8.5	1.0	10	4
13514	<0.1	<0.5	<5	6	5.0	0.5	2	3
13515	<0.1	<0.5	10	20	5.5	1.0	4	6
13516	Sample Not Received							
13517	Sample Not Received							
13518	Sample Not Received							
13519	Sample Not Received							
13521	Sample Not Received							
13522	Sample Not Received							
13523	Sample Not Received							
13524	Sample Not Received							
13525	Sample Not Received							
13526	Sample Not Received							
13527	Sample Not Received							
13528	Sample Not Received							



Reference: u281981 Order Number: NC-002 Page 36 of 49

	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
13529	Sample Not Received							
13530	Sample Not Received							
13531	Sample Not Received							
13532	Sample Not Received							
13533	Sample Not Received							
13534	Sample Not Received							
13535	Sample Not Received							
13536	Sample Not Received							
13588	Sample Not Received							
13589	Sample Not Received							
13590	Sample Not Received							
13591	Sample Not Received							
13592	Sample Not Received							
13593	Sample Not Received							
13594	Sample Not Received							
13595	Sample Not Received							
13596	Sample Not Received							
13597	Sample Not Received							
13598	Sample Not Received							
13599	Sample Not Received							
13600	Sample Not Received							
13480	<0.1	<0.5	60	2	34.0	2.0	34	5
13140	47.3	<0.5	2390	3.21%	10.0	10.0	118	445
13140 Rpt	47.6	<0.5	2450	3.18%	10.0	10.5	116	447
Std Nominal	<0.1	<0.5	155	316	7.5	2.0	6930	3
Determined	0.1	<0.5	150	322	7.0	2.5	6940	3
Std Nominal								
Determined	NR	NR	NR	NR	NR	NR	NR	NR

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MINERAL TESTING & LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
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Reference: u281981 Order Number: NC-002 Page 37 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
12585	30	2.9	14.8
12586	16	1.3	5.8
12587	28	1.0	5.0
12588	30	2.3	12.1
12589	22	1.6	7.5
12590	18	1.8	7.3
12591	28	2.2	11.2
12592	34	2.7	15.9
12593	90	2.4	17.5
12594	66	2.5	19.0
12595	52	2.8	21.5
12596	46	2.5	17.7
12596 Rpt	44	2.6	19.1
12597	48	2.6	19.1
12598	52	2.9	19.4
12599	94	3.0	20.8
Std Nominal	104	0.7	2.8
Determined	108	0.7	2.9
12600	38	1.6	3.2
12601	48	2.8	17.2
12602	46	4.1	24.9
12603	42	3.0	18.1
12604	40	3.0	17.1
12605	42	4.6	18.2
12605 Rpt	44	4.6	19.2
12606	54	3.6	17.4
12607	46	3.9	17.2
12608	42	4.6	17.3
12609	42	5.5	20.5
12610	46	60.5	13.6
12611	38	37.9	12.5
12612	32	6.8	10.0
12613	32	6.9	8.7
12614	28	11.7	9.3
12615	24	9.3	10.0
12675	20	3.8	11.2
12676	28	3.9	10.9
12677	20	3.9	11.6
12677 Rpt	18	3.6	10.8
12678	14	4.1	11.5
12679	12	10.3	11.8
12680	4	9.8	11.5
12693	26	1.5	6.8



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: u281981 Order Number: NC-002 Page 38 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
12694	34	3.0	18.6
12695	34	2.4	19.2
12696	34	2.6	20.1
Std Nominal	5200	0.8	2.7
Determined	5150	0.8	2.8
12697	42	2.3	19.8
12698	32	2.2	17.4
12699	48	2.2	17.0
12700	96	1.1	2.8
12701	38	2.1	15.5
12702	34	2.4	16.6
12703	40	2.6	16.9
12704	40	2.7	16.4
12704 Rpt	44	2.6	16.8
12705	48	3.2	18.0
12706	86	3.2	17.0
12707	52	3.7	17.1
12708	42	4.0	17.5
12709	44	4.5	16.7
12710	42	4.2	16.6
12711	42	4.2	16.5
12712	20	3.0	9.7
12713	12	2.9	3.9
12714	20	35.1	11.9
12715	20	10.0	10.3
12716	14	6.1	10.4
12717	20	6.0	9.7
12718	36	4.9	10.3
12719	36	3.9	9.9
12720	38	1.6	3.2
Std Nominal	92	4.2	15.6
Determined	96	4.3	15.7
12779	32	5.8	11.5
12780	24	5.8	11.2
12781	24	4.3	11.2
12782	36	5.0	11.1
12783	64	6.3	11.1
12784	142	9.7	12.3
12784 Rpt	148	9.8	12.7
12785	106	14.3	15.1
12786	90	10.4	23.3
12787	46	5.6	17.7
12788	48	4.4	16.2



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: u281981 Order Number: NC-002 Page 39 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
12789	40	3.1	12.7
12790	72	4.2	20.5
12791	58	6.6	28.8
12791 Rpt	60	6.5	29.6
12792	88	6.8	29.2
12793	76	5.4	28.4
12794	142	6.8	23.4
12795	78	3.0	18.6
12796	88	2.7	19.6
12797	78	2.6	18.3
12798	86	3.1	21.4
12799	64	3.2	19.7
12800	98	1.0	2.7
12801	66	4.5	22.2
12802	70	5.0	24.9
12802 Rpt	72	5.0	26.2
12803	162	4.1	24.6
12804	64	4.1	25.5
12804 Rpt	66	4.1	24.8
12805	56	3.6	20.1
12806	36	4.1	19.7
12807	46	4.3	18.3
12808	58	4.8	20.7
12809	126	4.7	23.5
12810	156	11.7	24.1
12885	12	7.9	13.3
12886	32	10.0	23.1
12887	48	7.6	25.5
12888	48	7.7	24.1
Std Nominal			
Determined	72	61.6	1.8
12889	66	10.7	28.1
12890	58	11.3	25.9
12891	74	8.6	26.7
12892	54	8.4	29.2
12893	46	7.1	26.9
12894	44	10.2	27.3
12895	56	7.6	26.3
12896	52	7.3	26.7
12897	82	6.6	25.5
12898	74	5.8	27.3
12899	104	5.6	26.7
12900	100	1.0	2.7





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: u281981 Order Number: NC-002 Page 40 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
12901	104	6.6	26.4
Std Nominal			
Determined	106	10.3	10.5
12902	86	7.3	27.5
12903	60	6.4	27.2
12904	76	5.9	24.1
12905	66	5.3	25.3
12906	56	5.1	25.9
12907	62	4.1	25.7
12908	64	4.1	27.7
12909	48	3.7	25.2
12910	88	4.1	24.1
12911	88	5.2	22.7
12911 Rpt	90	5.4	22.7
12912	118	5.6	22.5
12913	116	5.8	22.7
12913 Rpt	114	6.0	24.6
12914	98	5.1	24.5
12915	118	4.7	23.4
12916	98	4.4	23.4
12917	92	5.4	24.1
12918	106	8.2	25.4
12919	124	26.5	16.0
12920	36	1.6	3.2
12921	156	15.7	23.9
12922	94	8.0	16.2
12923	74	5.5	11.0
12924	66	7.1	13.3
12925	56	10.9	18.4
12926	46	11.4	17.5
12927	98	8.2	26.0
12928	106	9.0	38.4
12929	106	9.4	42.1
12929 Rpt	104	9.6	44.3
12930	88	6.7	34.3
12931	84	7.5	37.1
12932	118	4.6	26.3
12933	100	3.9	25.9
12934	120	3.1	23.2
12934 Rpt	118	3.3	23.1
12935	100	3.2	21.7
12936	52	3.1	20.0
12937	60	3.5	25.5



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MINERAL TESTING & LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 Australia

Telephone (08) 9456 0404  
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Reference: u281981 Order Number: NC-002 Page 41 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
12938	54	3.2	22.3
12939	42	2.9	18.3
12940	42	2.8	17.0
12941	34	2.5	15.4
12942	44	2.3	13.3
12943	44	2.6	15.4
Std Nominal	104	0.7	2.8
Determined	102	0.7	2.7
12944	36	2.1	14.7
12945	30	1.9	13.9
12946	20	3.2	12.3
12947	30	10.3	13.5
12948	42	2.4	13.7
12949	22	3.1	12.0
12950	24	2.2	11.6
12951	20	4.9	10.4
12952	28	2.7	11.5
12953	34	2.4	13.6
12953 Rpt	34	2.4	13.8
12954	62	2.4	14.4
12955	36	2.8	14.8
12956	38	3.1	15.0
12957	36	3.8	15.4
12958	34	3.6	13.9
12959	18	2.5	4.7
12960	98	1.1	2.7
12961	30	3.2	10.0
12962	12	2.9	3.6
12963	24	3.2	3.5
12964	16	13.1	9.4
12964 Rpt	16	13.5	9.6
12965	18	5.7	9.7
12966	24	5.0	14.0
12967	28	7.5	11.9
12968	10	4.3	9.9
12969	16	3.5	8.4
12970	36	4.1	11.2
12971	24	3.9	10.5
12972	38	5.0	10.9
Std Nominal	5200	0.8	2.7
Determined	5150	0.8	2.8
12973	62	3.3	13.0
12974	32	2.6	12.6



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MINERAL TESTING & LABORATORY SERVICES

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58 Sorbonne Crescent Canning Vale  
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Reference: u281981 Order Number: NC-002 Page 42 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
12975	16	4.2	10.9
12976	34	2.4	13.3
12977	22	2.9	10.8
12978	24	2.4	11.9
12979	38	2.5	11.2
12980	36	1.6	3.2
12981	36	1.5	6.1
12981 Rpt	34	1.5	6.1
12982	34	2.0	11.4
12983	38	2.7	12.6
12984	32	1.8	8.6
12985	38	2.6	13.6
12986	44	3.7	11.3
12987	30	1.9	9.7
12988	40	2.2	11.3
12989	34	2.4	9.7
12990	30	8.9	14.0
12991	24	11.6	14.6
Std Nominal	92	4.2	15.6
Determined	94	4.2	15.8
12992	36	20.5	16.6
12992 Rpt	34	20.1	16.9
12993	104	29.4	35.0
12994	258	40.8	35.1
12995	112	35.3	32.0
12996	44	45.7	35.9
12997	78	60.6	46.1
12998	90	57.1	43.3
12999	72	52.7	40.2
13000	74	53.7	39.9
13001	212	42.6	17.7
13002	248	52.5	28.6
13003	248	28.3	15.9
13003 Rpt	256	28.8	16.5
13004	276	62.2	20.7
13005	164	21.4	26.8
13006	70	24.9	29.9
13006 Rpt	72	25.2	30.4
13007	38	20.8	31.3
13008	30	28.9	32.3
13009	58	40.5	33.6
13010	34	50.9	37.0
Std Nominal			



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MINERAL TESTING & LABORATORY SERVICES

ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
Perth WA 6155 Australia

Telephone (08) 9456 0404  
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Reference: u281981 Order Number: NC-002 Page 43 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
Determined	72	63.0	2.2
13011	34	76.5	33.8
13012	60	37.5	35.0
13013	54	28.8	32.0
13014	60	100	45.1
13015	54	29.3	36.0
13016	72	31.8	35.8
13017	92	32.6	37.1
13018	114	36.4	39.7
13019	88	33.8	34.8
13020	98	1.1	2.8
13021	60	55.7	42.5
13022	78	29.1	36.6
13023	82	33.2	41.2
13024	48	82.0	41.6
13025	110	46.4	43.5
13026	92	22.7	35.9
13027	64	14.7	30.8
13028	94	41.0	40.2
13029	66	45.5	49.4
13030	44	41.1	46.3
13031	78	37.2	48.2
13032	90	26.7	50.5
13033	88	19.9	40.9
13034	128	18.7	42.3
13035	130	17.2	39.0
13036	146	12.0	42.7
13037	208	14.5	43.7
13038	332	13.4	46.4
13039	278	14.4	45.3
Std Nominal			
Determined	96	10.8	12.3
13040	36	1.6	3.2
13041	192	12.3	46.0
13042	222	13.8	43.7
13043	110	9.1	44.0
13044	100	8.7	45.6
13045	76	8.4	47.0
13046	56	6.0	33.9
13046 Rpt	54	5.9	33.6
13096	38	5.7	29.9
13097	52	5.5	28.9
13098	58	6.3	30.2



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: u281981 Order Number: NC-002 Page 44 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
13099	62	5.9	30.2
13099 Rpt	60	5.9	30.6
13100	62	5.9	30.1
13101	120	7.9	31.7
13102	72	5.8	29.6
13103	122	17.2	25.5
13104	110	21.5	14.2
13105	92	16.0	11.9
13106	44	9.7	11.6
13107	148	13.9	11.9
13108	130	14.1	10.4
13109	188	10.5	10.9
13110	106	9.9	11.6
13111	118	8.1	11.6
13112	304	10.7	14.8
13113	444	7.2	11.4
13114	284	6.5	11.5
13115	260	6.2	12.0
13116	84	8.3	12.0
13116 Rpt	84	8.2	11.7
13117	72	7.8	11.6
13118	102	6.9	11.8
13119	56	11.4	13.2
13120	94	1.0	2.9
13121	62	16.4	16.1
13122	20	1.6	5.2
Std Nominal	104	0.7	2.8
Determined	108	0.7	3.0
13123	44	2.0	7.6
13124	56	3.1	14.0
13125	70	4.7	27.3
13126	54	8.8	28.9
13127	108	8.5	34.4
13127 Rpt	108	8.6	35.0
13128	60	6.9	31.2
13129	56	4.5	26.5
13130	124	4.0	27.5
13131	36	3.5	26.9
13132	178	3.5	26.1
13133	226	3.4	25.7
13134	104	3.6	26.3
13135	104	3.9	26.3
13136	216	3.7	26.0



Reference: u281981 Order Number: NC-002 Page 45 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
13137	196	4.0	25.5
13138	446	3.9	24.8
13139	258	4.2	25.0
13141	96	5.0	25.7
13142	128	5.4	26.2
13143	156	5.3	28.4
13143 Rpt	152	5.4	28.6
13144	146	4.5	27.0
13145	124	4.2	27.6
13145 Rpt	128	4.1	27.2
13201	58	15.7	10.8
13202	62	13.5	10.5
13203	54	11.1	10.9
Std Nominal	5200	0.8	2.7
Determined	5240	0.8	2.8
13204	30	13.5	10.9
13205	32	13.3	11.2
13206	42	12.6	11.3
13207	54	7.0	11.2
13208	58	5.9	11.4
13209	30	4.8	11.8
13210	44	3.9	11.5
13211	64	4.0	11.9
13212	30	3.9	12.0
13213	36	5.3	12.2
13213 Rpt	38	5.3	12.3
13214	82	11.4	16.8
13215	28	1.4	5.1
13216	30	1.9	8.6
13217	38	2.4	12.8
13218	24	2.0	10.3
13219	82	4.3	23.0
13220	72	4.3	22.2
13221	Sample Not Received		
13323	14	3.0	14.7
13324	36	5.4	26.7
13325	14	1.7	8.8
13326	10	3.1	13.7
13327	6	2.3	13.4
13328	4	1.4	8.0
Std Nominal	92	4.2	15.6
Determined	94	4.4	15.9
13329	4	3.1	13.3



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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: u281981 Order Number: NC-002 Page 46 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
13330	28	3.6	21.3
13344	38	4.1	17.4
13345	38	3.9	16.9
13345 Rpt	40	4.0	17.6
13346	36	4.0	16.9
13347	32	4.1	17.0
13348	24	4.7	16.4
13349	6	11.3	9.6
13350	22	11.9	11.2
13351	20	4.6	11.1
13373	38	3.5	12.1
13374	80	3.7	13.1
13375	98	4.6	13.5
13376	76	4.0	12.5
13377	68	4.3	12.7
13378	56	3.7	12.3
13378 Rpt	54	3.7	12.3
13379	38	5.3	13.7
13380	96	1.0	2.8
13381	48	3.7	11.9
13382	36	2.9	14.0
13383	38	3.5	13.3
13384	94	3.2	13.2
Std Nominal			
Determined	66	62.0	2.0
13385	50	6.5	15.5
13386	60	8.4	21.2
13387	46	3.4	13.2
13388	96	3.2	10.3
13388 Rpt	94	3.1	10.4
13389	30	3.6	12.6
13390	28	4.9	17.2
13391	24	3.6	12.5
13392	46	7.1	22.0
13393	14	4.5	10.1
13470	48	2.9	12.3
13471	36	3.7	11.9
13472	46	4.5	13.3
13473	52	3.7	13.6
13474	60	3.1	13.9
13475	50	4.3	13.3
13476	56	5.3	13.8
13477	46	3.6	13.9



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ABN: 30 008 127 802

58 Sorbonne Crescent Canning Vale  
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Telephone (08) 9456 0404  
Facsimile (08) 9456 0403

Reference: u281981 Order Number: NC-002 Page 47 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
13478	44	3.4	13.0
13478 Rpt	46	3.5	13.3
13479	72	4.5	13.6
13481	46	3.1	12.0
13482	40	3.3	13.5
13483	36	4.4	14.0
13484	44	5.6	12.6
13485	22	3.2	11.5
13485 Rpt	20	3.2	11.3
13486	38	5.4	16.4
13487	14	1.8	6.6
13488	30	3.1	11.0
13489	40	2.9	10.6
13490	20	4.8	19.5
13491	40	5.5	16.5
13492	10	15.3	8.3
Std Nominal			
Determined	100	10.8	12.6
13493	24	8.3	10.2
13494	28	6.7	10.4
13508	150	2.4	9.5
13509	132	3.2	12.2
13510	136	3.8	13.8
13511	98	4.7	13.3
13512	44	11.8	8.3
13513	16	2.7	6.9
13514	8	2.0	6.0
13515	12	1.8	6.4
13516	Sample Not Received		
13517	Sample Not Received		
13518	Sample Not Received		
13519	Sample Not Received		
13521	Sample Not Received		
13522	Sample Not Received		
13523	Sample Not Received		
13524	Sample Not Received		
13525	Sample Not Received		
13526	Sample Not Received		
13527	Sample Not Received		
13528	Sample Not Received		





Reference: u281981 Order Number: NC-002 Page 48 of 49

	Zn ppm	U ppm	Th ppm
Detection Limit	2	0.1	0.1
13529	Sample Not Received		
13530	Sample Not Received		
13531	Sample Not Received		
13532	Sample Not Received		
13533	Sample Not Received		
13534	Sample Not Received		
13535	Sample Not Received		
13536	Sample Not Received		
13588	Sample Not Received		
13589	Sample Not Received		
13590	Sample Not Received		
13591	Sample Not Received		
13592	Sample Not Received		
13593	Sample Not Received		
13594	Sample Not Received		
13595	Sample Not Received		
13596	Sample Not Received		
13597	Sample Not Received		
13598	Sample Not Received		
13599	Sample Not Received		
13600	Sample Not Received		
13480	68	4.4	13.3
13140	38	1.5	3.1
13140 Rpt	36	1.6	3.2
Std Nominal	104	0.7	2.8
Determined	106	0.7	2.8
Std Nominal			
Determined	NR	NR	NR

\*\*\*\*\*

\*\*\*\*\*

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 %



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58 Sorbonne Crescent Canning Vale  
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Telephone (08) 9456 0404  
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Reference: u281981 Order Number: NC-002 Page 49 of 49

#### 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.

#### 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.