



Certificate of Analysis

Work Order : VC132133

[Report File No.: 000003041]

To: **Gordon Richards**
GORDON RICHARDS
6410 HOLLY PARK DR
DELTA BC V4K 4W6

Date: Aug 27, 2013

P.O. No. : PALEO Project
Project No. : -
No. Of Samples : 27
Date Submitted : Aug 08, 2013
Report Comprises : Pages 1 to 7
(Inclusive of Cover Sheet)

Distribution of unused material:

Active files:

Certified By :



Satpaul Gill
QAQC Chemist

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

Report Footer: L.N.R. = Listed not received I.S. = Insufficient Sample
n.a. = Not applicable -- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion
Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element Method Det.Lim. Units	WtKg WGH79 0.001 kg	Ag MMI-M 1 ppb	Al MMI-M 1 ppm	As MMI-M 10 ppb	Au MMI-M 0.1 ppb	Ba MMI-M 10 ppb	Bi MMI-M 1 ppb	Ca MMI-M 10 ppm	Cd MMI-M 1 ppb	Ce MMI-M 5 ppb
S274	0.310	25	145	<10	0.3	9120	<1	200	4	532
S275	0.340	5	158	30	0.5	12300	<1	140	5	2090
S276	0.335	20	188	50	0.4	2630	<1	50	8	661
S277	0.420	13	199	30	0.3	2750	<1	10	2	90
S278	0.310	3	140	30	0.4	7010	<1	170	4	925
S279	0.285	7	>200	30	0.3	3420	<1	20	7	310
S280	0.310	18	>200	<10	0.3	1850	<1	<10	1	58
S281	0.305	14	188	<10	0.2	1590	<1	40	7	335
S282	0.360	4	110	<10	0.4	7190	<1	170	5	638
S283	0.335	6	151	30	0.3	4400	<1	60	1	1050
S284	0.340	5	90	<10	0.4	10700	<1	220	1	421
S285	0.405	9	135	20	0.2	4100	<1	100	3	1200
S286	0.340	21	66	<10	0.2	2040	<1	50	1	521
S287	0.320	9	162	20	0.1	2870	<1	50	2	730
S288	0.365	5	70	<10	0.3	9240	<1	230	1	169
S289	0.330	2	94	<10	0.2	23200	<1	470	2	1250
S290	0.335	4	65	<10	0.5	14100	<1	320	1	287
S291	0.340	4	161	20	0.3	5440	<1	120	2	1310
S292	0.350	2	68	<10	0.3	13500	<1	400	3	1100
S293	0.350	10	114	<10	0.2	3650	<1	100	3	681
S294	0.315	12	196	<10	0.2	1860	<1	<10	3	101
S295	0.300	4	123	10	0.7	9920	<1	200	4	783
S296	0.420	3	>200	40	0.4	5020	<1	50	4	810
S297	0.410	7	>200	20	0.3	3840	<1	70	8	632
S298	0.305	24	>200	10	0.2	2270	<1	<10	17	46
S299	0.400	23	145	60	0.6	5520	1	150	6	515
S300	0.330	2	118	20	0.4	10600	<1	220	2	1220

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Element	Co	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Hg
Method	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M	MMI-M
Det.Lim.	5	0.5	10	1	0.5	0.5	1	1	1	1
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb
S274	97	1.1	1440	213	117	40.4	131	3	198	<1
S275	35	13.2	530	245	104	68.0	62	9	316	<1
S276	66	8.6	860	179	94.1	54.3	123	21	231	1
S277	86	6.5	560	20	13.4	3.4	217	9	14	<1
S278	34	6.3	650	166	78.9	48.8	72	9	211	<1
S279	233	11.1	740	66	31.8	14.6	156	19	60	<1
S280	59	13.9	500	7	4.0	1.6	199	7	6	<1
S281	68	6.3	350	82	33.2	19.2	82	10	79	<1
S282	21	9.0	620	129	60.5	38.7	26	4	167	1
S283	37	4.4	970	269	123	84.9	65	9	345	1
S284	19	3.3	880	136	65.1	38.7	6	<1	178	4
S285	37	3.8	690	205	88.6	77.5	34	5	307	1
S286	26	6.1	1040	137	60.9	50.2	9	4	185	<1
S287	60	8.0	530	87	34.9	31.2	43	8	115	2
S288	14	1.2	1030	76	35.0	21.9	4	<1	105	5
S289	7	4.0	590	108	48.7	33.5	5	1	146	<1
S290	12	0.7	980	53	24.3	14.6	7	<1	69	4
S291	32	5.2	770	156	62.6	56.4	44	6	221	1
S292	11	1.3	610	70	36.4	17.8	10	<1	90	<1
S293	34	5.7	660	201	96.5	63.0	29	5	261	<1
S294	117	10.7	450	12	8.5	2.5	200	6	10	<1
S295	36	4.3	880	230	120	56.8	30	4	262	1
S296	102	11.8	890	140	59.7	35.5	132	18	149	<1
S297	51	11.8	630	141	65.9	40.6	59	11	168	1
S298	117	5.1	350	16	10.5	2.0	184	7	9	<1
S299	42	8.3	930	110	53.8	34.3	114	14	148	1
S300	25	4.2	440	195	90.6	55.6	27	4	244	1

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Element Method Det.Lim. Units	In MMI-M 0.5 ppb	K MMI-M 0.1 ppm	La MMI-M 1 ppb	Li MMI-M 5 ppb	Mg MMI-M 1 ppm	Mn MMI-M 10 ppb	Mo MMI-M 5 ppb	Nb MMI-M 0.5 ppb	Nd MMI-M 1 ppb	Ni MMI-M 5 ppb
S274	<0.5	1.7	195	<5	34	160	<5	1.1	462	1640
S275	<0.5	6.5	1320	<5	25	1440	<5	3.4	1500	65
S276	<0.5	4.0	233	<5	8	2420	6	22.4	737	136
S277	<0.5	3.9	40	<5	4	760	<5	12.5	47	119
S278	<0.5	4.6	436	<5	28	1800	<5	8.1	702	154
S279	<0.5	3.4	140	7	7	8140	6	21.6	192	166
S280	<0.5	3.8	27	<5	3	300	<5	9.3	24	157
S281	<0.5	3.3	150	<5	5	780	<5	8.2	249	209
S282	<0.5	6.4	291	<5	26	580	<5	2.7	518	87
S283	<0.5	5.1	555	<5	12	930	5	5.2	1120	60
S284	<0.5	6.2	217	<5	39	240	<5	<0.5	443	46
S285	<0.5	5.4	593	<5	14	780	<5	2.1	1160	48
S286	<0.5	1.9	307	<5	12	140	<5	<0.5	616	26
S287	<0.5	5.0	359	<5	8	790	6	4.2	479	46
S288	<0.5	5.7	82	<5	54	60	<5	<0.5	203	78
S289	<0.5	5.7	226	<5	92	70	<5	<0.5	390	62
S290	<0.5	4.5	58	<5	82	140	<5	<0.5	132	209
S291	<0.5	4.2	651	<5	11	1370	<5	2.4	873	53
S292	<0.5	4.7	105	<5	74	620	<5	<0.5	198	351
S293	<0.5	5.7	361	<5	20	710	<5	3.1	804	63
S294	<0.5	2.8	46	<5	2	630	<5	8.7	44	302
S295	<0.5	3.2	394	<5	38	820	<5	2.3	705	329
S296	<0.5	3.0	389	6	11	3880	7	17.4	510	180
S297	<0.5	4.6	280	<5	18	720	<5	11.3	574	210
S298	<0.5	4.4	22	<5	3	830	<5	6.6	24	137
S299	<0.5	4.2	291	<5	21	1760	9	16.3	510	129
S300	<0.5	4.4	523	<5	46	530	<5	1.2	780	102

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Element Method Det.Lim. Units	P MMI-M 0.1 ppm	Pb MMI-M 10 ppb	Pd MMI-M 1 ppb	Pr MMI-M 1 ppb	Pt MMI-M 1 ppb	Rb MMI-M 5 ppb	Sb MMI-M 1 ppb	Sc MMI-M 5 ppb	Sm MMI-M 1 ppb	Sn MMI-M 1 ppb
S274	0.6	160	<1	88	<1	60	<1	235	136	<1
S275	1.6	370	<1	358	<1	157	2	256	287	<1
S276	4.8	940	<1	130	<1	126	3	195	192	<1
S277	8.2	90	<1	11	<1	125	1	75	11	<1
S278	2.4	180	<1	146	<1	127	2	243	175	<1
S279	6.7	170	<1	42	<1	143	2	144	48	<1
S280	10.2	20	<1	6	<1	121	<1	43	5	<1
S281	2.9	130	<1	52	<1	180	<1	122	63	<1
S282	0.9	160	<1	101	<1	170	<1	183	133	<1
S283	1.6	370	<1	215	<1	109	2	316	278	<1
S284	0.2	170	<1	82	<1	104	<1	142	127	<1
S285	1.1	370	<1	226	<1	142	<1	218	275	<1
S286	0.1	110	<1	117	<1	91	<1	163	154	<1
S287	1.3	440	<1	106	<1	153	1	121	108	<1
S288	0.2	100	<1	34	<1	88	<1	49	69	<1
S289	0.1	50	<1	77	<1	130	<1	47	109	<1
S290	0.2	60	<1	23	<1	47	<1	26	43	<1
S291	1.8	240	<1	190	<1	115	1	254	199	<1
S292	0.4	40	<1	36	<1	54	<1	32	58	<1
S293	0.9	200	<1	148	<1	109	<1	219	204	<1
S294	11.3	30	<1	11	<1	122	<1	61	10	<1
S295	0.8	160	<1	139	<1	91	<1	263	193	<1
S296	4.7	230	<1	108	<1	112	3	242	125	<1
S297	2.4	220	<1	112	<1	121	1	199	141	<1
S298	9.0	150	<1	6	<1	111	<1	55	6	<1
S299	4.7	920	<1	106	<1	136	4	187	127	<1
S300	0.6	320	<1	160	<1	92	<1	278	194	<1

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Element Method Det.Lim. Units	Sr MMI-M 10 ppb	Ta MMI-M 1 ppb	Tb MMI-M 1 ppb	Te MMI-M 10 ppb	Th MMI-M 0.5 ppb	Ti MMI-M 3 ppb	Tl MMI-M 0.5 ppb	U MMI-M 1 ppb	W MMI-M 1 ppb	Y MMI-M 1 ppb
S274	1740	<1	32	<10	38.9	200	0.5	98	<1	1340
S275	880	<1	45	<10	83.8	1400	1.0	158	1	1380
S276	180	<1	30	<10	59.2	4220	0.7	61	2	1100
S277	120	<1	3	<10	48.1	2080	0.8	41	<1	97
S278	730	<1	29	<10	55.9	1990	0.6	128	1	905
S279	170	<1	10	<10	60.8	3850	0.9	49	1	329
S280	100	<1	<1	<10	38.5	1200	0.7	29	<1	28
S281	290	<1	13	<10	29.2	1390	<0.5	43	<1	349
S282	820	<1	22	<10	23.0	700	0.6	54	<1	709
S283	310	<1	47	<10	34.9	1630	0.8	88	1	1510
S284	1570	<1	24	<10	8.2	58	0.5	34	<1	753
S285	470	<1	38	<10	27.3	957	0.6	55	<1	1140
S286	200	<1	25	<10	6.7	112	0.6	26	<1	789
S287	220	<1	16	<10	27.2	1590	0.6	23	<1	406
S288	1840	<1	13	<10	3.9	14	<0.5	22	<1	432
S289	4630	<1	20	<10	18.0	<3	0.6	19	<1	567
S290	2660	<1	9	<10	7.0	<3	<0.5	22	<1	304
S291	490	<1	30	<10	51.0	1160	0.7	50	<1	742
S292	3060	<1	12	<10	31.0	6	<0.5	29	<1	385
S293	450	<1	35	<10	17.9	689	0.6	64	<1	1200
S294	70	<1	2	<10	33.5	1250	0.7	30	<1	58
S295	1200	<1	38	<10	28.2	601	0.6	95	<1	1530
S296	330	<1	24	<10	71.0	3960	1.2	103	2	640
S297	410	<1	24	<10	33.9	2230	1.0	122	<1	780
S298	120	<1	2	<10	31.1	967	0.7	30	<1	68
S299	560	<1	20	<10	57.1	3440	0.8	71	2	563
S300	1550	<1	34	<10	26.3	604	0.8	79	<1	1190

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Final : VC132133 Order: PALEO Project

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Element	Yb	Zn	Zr
Method	MMI-M	MMI-M	MMI-M
Det.Lim.	1	20	5
Units	ppb	ppb	ppb
S274	84	120	130
S275	57	50	149
S276	62	150	246
S277	9	80	248
S278	52	80	177
S279	20	140	327
S280	3	60	188
S281	20	30	163
S282	38	60	96
S283	75	30	157
S284	37	<20	28
S285	52	40	86
S286	34	<20	41
S287	22	30	134
S288	21	20	13
S289	27	20	32
S290	15	70	14
S291	37	40	212
S292	23	70	26
S293	60	40	74
S294	6	80	152
S295	77	60	116
S296	36	70	329
S297	40	40	160
S298	7	390	161
S299	36	200	263
S300	56	80	82

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