

**RED CHRIS PROJECT
2003 EXPLORATION REPORT
APPENDICES IV - IX**



East Zone Drilling

AUGUST, 2004

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**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

27,479

CERTIFICATE OF ANALYSIS

ID: 03J1812

Phone (604) 879-7878
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 [181215:00:01:30111003:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

50 Samples

Out: Nov 10, 2003 In: Oct 30, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	50	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
884100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: ICP(AqR)30

Document Distribution

1 Red Chris Development Company Ltd. EN RT CC IN FX
 488 - 625 Howe Street 1 2 0 2 0
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 B.C. V6C 2T6 0 0 0 0 0
 Canada
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 Fax: (604)683-0126
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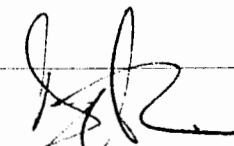
2 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
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 Canada
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3 bcMetals EN RT CC IN FX
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##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	100.0
02	0711	ICP	ppm	Cu ICP	Copper	1	10000
03	0714	ICP	ppm	Pb ICP	Lead	2	10000
04	0730	ICP	ppm	Zn ICP	Zinc	1	10000
05	0703	ICP	ppm	As ICP	Arsenic	5	10000
06	0702	ICP	ppm	Sb ICP	Antimony	5	2000
07	0732	ICP	ppm	Hg ICP	Mercury	3	10000
08	0717	ICP	ppm	Mo ICP	Molybdenum	1	1000
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	1000
10	0705	ICP	ppm	Bi ICP	Bismuth	2	2000
11	0707	ICP	ppm	Cd ICP	Cadmium	0.2	2000.0
12	0710	ICP	ppm	Co ICP	Cobalt	1	10000
13	0718	ICP	ppm	Ni ICP	Nickel	1	10000
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	10000
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	1000
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	10000
17	0729	ICP	ppm	V ICP (Incomplete Digestion)	Vanadium	1	10000
18	0716	ICP	ppm	Mn ICP	Manganese	1	10000
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	10000
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	10000
21	0731	ICP	ppm	Zr ICP (Incomplete Digestion)	Zirconium	1	10000
22	0736	ICP	ppm	Sc ICP	Scandium	1	10000
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	10.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	10.00
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	-10.00
26	0712	ICP	%	Fe ICP (Incomplete Digestion)	Iron	0.01	10.00
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	10.00
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	10.00
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	10.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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 DL=Download 3D=3! Disk EM=E-Mail B1=BBS Type BI=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

il - 03J1812

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INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

50 Samples
 Ship# 50=Pulp 3=Repeat

[181215:00:01:30111003:002]

Out: Nov 10, 2003
 In : Oct 30, 2003

Page 1 of 2
 Section 1 of 2

Sample Name	Type	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm
95083 Job #03I1571	Pulp	5.1	1.7%	11	120	<5	13	4	6	<10	<2	<0.2	9	<1	28	6	73	42	1419
95104 Job #03I1571	Pulp	2.5	2.3%	4	65	<5	<5	<3	7	<10	<2	<0.2	5	5	38	<5	155	31	385
95126 Job #03I1571	Pulp	1.0	4254	13	80	<5	<5	<3	6	<10	<2	<0.2	8	2	119	<5	38	75	923
97189 Job #03I1605	Pulp	0.4	3582	10	21	<5	<5	<3	16	<10	<2	<0.2	12	6	17	<5	32	21	347
97087 Job #03I1608	Pulp	0.8	3784	77	469	<5	12	<3	6	<10	<2	<0.2	9	6	32	<5	60	30	834
95265 Job #03I1611	Pulp	1.7	5125	18	99	<5	<5	<3	7	<10	<2	<0.2	9	2	87	<5	22	63	913
95353 Job #03I1612	Pulp	0.8	4431	10	99	<5	<5	<3	9	<10	<2	<0.2	9	3	147	<5	33	69	795
95379 Job #03I1612	Pulp	1.5	3446	16	118	<5	15	3	7	<10	<2	<0.2	9	3	33	<5	25	40	1990
95404 Job #03I1612	Pulp	1.5	5600	13	76	<5	<5	<3	5	<10	<2	<0.2	8	1	61	<5	28	54	688
95426 Job #03I1613	Pulp	1.6	5724	14	86	<5	<5	<3	6	<10	<2	<0.2	7	7	120	<5	33	44	1175
95511 Job #03I1621	Pulp	0.9	5589	10	90	<5	7	<3	4	<10	<2	<0.2	9	4	56	<5	56	41	1120
95548 Job #03I1621	Pulp	4.2	3285	146	736	44	45	7	7	<10	<2	3.7	15	10	14	<5	59	22	2244
95573 Job #03I1621	Pulp	1.3	3229	6	70	<5	7	<3	5	<10	<2	<0.2	8	2	192	<5	35	32	1136
97216 Job #03I1627	Pulp	7.2	2.8%	14	118	<5	8	<3	5	<10	<2	<0.2	8	6	30	10	92	43	955
97237 Job #03I1627	Pulp	5.0	7963	95	226	<5	21	5	5	<10	<2	<0.2	14	10	8	<5	59	29	1910
97268 Job #03I1627	Pulp	0.9	3430	17	83	<5	12	<3	11	<10	<2	<0.2	13	1	29	7	22	44	1285
97302 Job #03J1639	Pulp	1.5	1.3%	17	138	<5	<5	<3	5	<10	<2	<0.2	9	<1	30	<5	79	50	1600
97334 Job #03J1639	Pulp	1.9	9154	13	141	<5	<5	<3	7	<10	<2	<0.2	12	1	82	<5	38	80	814
97355 Job #03J1639	Pulp	3.6	1.4%	10	108	<5	<5	<3	6	<10	<2	<0.2	10	4	35	7	41	58	921
97377 Job #03J1650	Pulp	3.2	1.2%	7	109	<5	<5	<3	5	151	<2	4.6	10	<1	89	<5	90	55	812
97398 Job #03J1650	Pulp	7.8	1.9%	8	96	<5	<5	<3	5	<10	<2	<0.2	9	7	55	5	105	46	675
97419 Job #03J1650	Pulp	2.8	7100	9	75	<5	<5	<3	5	<10	<2	<0.2	9	<1	181	6	63	59	780
95472 Job #03J1652	Pulp	0.7	4041	15	152	<5	<5	<3	8	<10	<2	<0.2	10	<1	48	<5	25	77	856
95486 Job #03J1652	Pulp	0.3	2020	16	149	<5	<5	<3	5	<10	<2	<0.2	18	34	84	5	74	66	1229
95726 Job #03J1655	Pulp	5.0	1.6%	16	104	<5	<5	<3	6	<10	<2	<0.2	9	5	40	<5	76	41	1230
95747 Job #03J1655	Pulp	4.7	8337	48	946	<5	39	8	5	<10	<2	4.3	12	5	13	<5	88	29	1877
95768 Job #03J1655	Pulp	1.0	4933	11	89	<5	34	<3	6	<10	<2	<0.2	7	3	41	<5	41	49	874
95789 Job #03J1656	Pulp	5.5	1.2%	47	69	46	54	7	6	<10	<2	<0.2	23	9	10	5	41	34	1753
95810 Job #03J1656	Pulp	4.5	1.3%	15	124	<5	53	4	8	<10	<2	<0.2	10	3	20	7	92	50	1917
95598 Job #03J1657	Pulp	10.3	1.7%	847	1304	41	176	13	7	<10	<2	<0.2	13	11	6	<5	115	34	2748
95621 Job #03J1657	Pulp	2.7	5885	46	112	80	64	4	7	<10	<2	<0.2	11	10	10	<5	68	35	2069
95642 Job #03J1657	Pulp	2.9	1.4%	21	141	<5	46	<3	6	<10	<2	<0.2	8	<1	19	<5	86	46	1448
95663 Job #03J1657	Pulp	5.6	7822	55	75	37	30	8	6	<10	<2	<0.2	13	11	9	<5	146	49	2126
95684 Job #03J1657	Pulp	3.9	1.5%	19	106	<5	99	4	6	<10	<2	<0.2	11	5	20	8	77	39	1114
95705 Job #03J1657	Pulp	5.4	1.5%	8	103	<5	<5	<3	5	<10	<2	<0.2	8	<1	32	6	93	45	2025
97512 Job #03J1658	Pulp	1.4	3657	12	115	<5	<5	<3	7	<10	<2	<0.2	14	8	90	<5	47	87	740
97538 Job #03J1658	Pulp	1.0	3903	7	99	<5	<5	<3	6	<10	<2	<0.2	12	3	82	<5	38	70	804
97569 Job #03J1660	Pulp	1.2	3577	12	103	<5	<5	<3	4	<10	<2	<0.2	12	6	145	6	46	66	1099
97662 Job #03J1675	Pulp	1.0	3406	13	96	<5	<5	<3	5	<10	<2	<0.2	9	4	90	<5	31	79	1198

Minimum Detection 0.1 1 2 1 5 5 3 1 10 2 0.2 1 1 2 5 1 1 1

Maximum Detection 100.0 10000 10000 10000 10000 2000 10000 1000 1000 2000 2000.0 10000 10000 10000 1000 10000 10000 10000

Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Ref Check m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

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 Page 1 of 2
 Section 2 of 2

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

Ship# **50 Samples**
 50=Pulp 3=Repeat

[181215:00:01:30111003:002]

Out: Nov 10, 2003
 In : Oct 30, 2003

Sample Name	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
95083 Job #0311571	2	65	3	2	<0.01	0.21	2.96	7.68	1.34	0.19	0.06	<0.01
95104 Job #0311571	<2	9	2	1	<0.01	0.05	0.33	6.07	0.29	0.05	0.04	<0.01
95126 Job #0311571	6	89	2	9	<0.01	0.68	4.31	4.08	1.69	0.16	0.08	0.10
97189 Job #0311605	2	84	5	3	<0.01	0.71	2.62	5.23	1.64	0.35	0.06	0.07
97087 Job #0311608	2	79	3	5	<0.01	0.50	3.77	3.36	1.48	0.17	0.08	0.07
95265 Job #0311611	4	132	3	9	<0.01	0.55	3.23	4.73	1.37	0.29	0.11	0.10
95353 Job #0311612	5	148	3	11	<0.01	0.56	3.08	4.97	1.29	0.40	0.15	0.12
95379 Job #0311612	4	98	4	6	<0.01	0.53	4.57	4.87	1.78	0.25	0.07	0.09
95404 Job #0311612	4	89	2	7	<0.01	0.44	2.46	4.65	0.93	0.33	0.10	0.09
95426 Job #0311613	2	103	2	4	<0.01	0.45	6.17	4.95	2.66	0.24	0.08	0.05
95511 Job #0311621	4	107	3	7	<0.01	0.48	3.26	4.93	1.34	0.31	0.13	0.08
95548 Job #0311621	3	103	3	4	<0.01	0.39	4.52	5.29	2.09	0.22	0.11	0.07
95573 Job #0311621	5	132	2	8	<0.01	0.51	3.59	4.20	1.34	0.33	0.14	0.10
97216 Job #0311627	<2	56	2	2	<0.01	0.26	1.52	7.92	0.93	0.20	0.05	<0.01
97237 Job #0311627	2	82	4	4	<0.01	0.43	3.22	6.42	1.30	0.24	0.10	0.06
97268 Job #0311627	4	168	3	5	<0.01	0.79	3.50	4.60	1.31	0.28	0.15	0.09
97302 Job #03J1639	<2	54	4	4	<0.01	0.42	3.20	7.07	1.35	0.24	0.06	0.05
97334 Job #03J1639	4	70	4	8	0.03	0.63	1.99	6.88	1.24	0.48	0.10	0.12
97355 Job #03J1639	2	53	3	3	0.01	0.66	0.91	7.06	0.81	0.22	0.06	0.05
97377 Job #03J1650	2	44	3	4	0.01	0.36	1.50	6.99	0.91	0.28	0.06	0.06
97398 Job #03J1650	<2	40	3	4	0.01	0.26	1.28	6.43	0.71	0.23	0.06	0.01
97419 Job #03J1650	3	107	2	4	<0.01	0.45	2.32	7.19	1.04	0.31	0.11	0.07
95472 Job #03J1652	6	92	3	8	<0.01	0.58	3.24	6.41	1.43	0.24	0.12	0.13
95486 Job #03J1652	6	115	4	8	0.01	0.92	3.30	6.00	1.60	0.38	0.12	0.11
95726 Job #03J1655	<2	110	2	2	<0.01	0.37	4.12	7.07	2.01	0.25	0.07	0.01
95747 Job #03J1655	<2	77	3	2	<0.01	0.25	4.59	6.55	1.97	0.14	0.06	0.01
95768 Job #03J1655	5	119	3	7	<0.01	0.64	2.96	4.97	1.16	0.31	0.13	0.10
95789 Job #03J1656	3	105	4	5	<0.01	0.38	3.55	8.13	1.18	0.26	0.11	0.06
95810 Job #03J1656	<2	69	3	5	<0.01	0.35	2.55	7.60	1.13	0.24	0.08	0.03
95598 Job #03J1657	<2	46	3	2	<0.01	0.20	2.92	8.98	1.18	0.13	0.04	0.01
95621 Job #03J1657	<2	66	3	3	<0.01	0.24	3.70	7.97	1.45	0.14	0.04	0.02
95642 Job #03J1657	<2	94	3	2	<0.01	0.32	1.51	8.30	0.88	0.21	0.04	<0.01
95663 Job #03J1657	<2	37	4	3	<0.01	0.28	2.62	9.01	1.09	0.17	0.04	0.02
95684 Job #03J1657	3	88	4	4	<0.01	0.49	3.04	6.73	1.19	0.24	0.05	0.06
95705 Job #03J1657	<2	50	3	2	<0.01	0.36	1.07	8.01	0.76	0.28	0.06	0.01
97512 Job #03J1658	6	471	4	11	0.03	1.12	2.17	5.02	1.19	0.63	0.10	0.11
97538 Job #03J1658	7	658	5	9	0.08	1.31	2.46	4.68	1.52	0.81	0.08	0.08
97569 Job #03J1660	6	89	3	9	<0.01	0.63	5.29	5.04	2.22	0.22	0.07	0.16
97662 Job #03J1675	5	133	3	10	<0.01	0.75	4.68	4.62	1.82	0.25	0.09	0.11

Minimum Detection	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10.00	10.00	10.00	10.00	10.00	10.00	10.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

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50 Samples
 Ship# 50=Pulp 3=Repeat

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Page 2 of 2
Section 1 of 2

Sample Name	Type	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm
97690 Job #03J1675	Pulp	1.1	4496	7	144	<5	<5	<3	7	<10	<2	<0.2	11	<1	87	<5	30	81	760
97785 Job #03J1678	Pulp	1.2	4822	54	116	23	<5	<3	28	<10	<2	<0.2	21	4	5	<5	32	20	372
97819 Job #03J1678	Pulp	1.0	3301	15	77	<5	13	<3	11	<10	<2	<0.2	10	3	43	<5	28	47	867
99008 Job #03J1683	Pulp	0.3	3846	38	46	<5	<5	<3	10	<10	<2	<0.2	11	4	5	7	40	14	269
99044 Job #03J1683	Pulp	0.7	5299	23	41	<5	15	<3	4	<10	<2	<0.2	9	2	9	<5	46	7	237
99070 Job #03J1690	Pulp	1.0	4259	13	57	<5	<5	<3	6	<10	<2	<0.2	11	1	16	<5	25	37	398
99092 Job #03J1690	Pulp	1.1	7444	7	24	<5	<5	<3	4	<10	<2	<0.2	12	<1	7	<5	40	7	116
99168 Job #03J1691	Pulp	0.7	4982	20	34	<5	<5	<3	5	<10	<2	<0.2	10	2	10	<5	25	10	282
99189 Job #03J1691	Pulp	1.1	4384	14	60	<5	<5	<3	7	<10	<2	<0.2	13	2	14	<5	28	48	431
95833 Job #03J1693	Pulp	3.4	1.2%	10	76	<5	7	<3	5	<10	<2	<0.2	5	<1	24	<5	84	29	1251
99359 Job #03J1693	Pulp	1.0	6961	7	35	<5	<5	<3	5	<10	<2	<0.2	19	3	7	7	33	26	242
RE 95083 Job #03I1571	Repeat	5.2	1.7%	10	116	<5	15	<3	5	<10	<2	<0.2	8	<1	25	<5	71	41	1408
RE 97377 Job #03J1650	Repeat	3.5	1.2%	6	106	<5	<5	<3	5	<10	<2	<0.2	9	2	90	6	87	55	794
RE 97690 Job #03J1675	Repeat	1.1	4572	10	145	<5	<5	<3	7	<10	<2	<0.2	12	4	107	<5	31	86	753

Minimum Detection	0.1	1	2	1	5	5	3	1	10	2	0.2	1	1	2	5	1	1	1
Maximum Detection	100.0	10000	10000	10000	10000	2000	10000	1000	1000	2000	2000.0	10000	10000	10000	1000	10000	10000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
---	No Test	Ins	Insufficient Sample	Del	Delay	Max	No Estimate	Rec	Rec	Check	m	x1000	%	Estimate	%	NS	No Sample	

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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project : Red Chris

Ship# **50 Samples**
 50=Pulp 3=Repeat

[181215:00:01:30111003:002]

Out: Nov 10, 2003
In : Oct 30, 2003

Sample Name	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
97690 Job #03J1675	3	37	4	5	0.02	0.91	1.35	7.66	0.85	0.34	0.06	0.09
97785 Job #03J1678	2	61	4	3	<0.01	0.48	1.06	6.85	0.39	0.22	0.08	0.07
97819 Job #03J1678	2	80	3	5	<0.01	0.54	3.30	5.26	1.59	0.23	0.08	0.10
99008 Job #03J1683	2	40	5	3	<0.01	0.54	1.59	6.29	0.67	0.34	0.04	0.08
99044 Job #03J1683	4	88	3	1	<0.01	0.56	0.99	4.63	0.41	0.33	0.09	0.08
99070 Job #03J1690	4	82	5	5	<0.01	0.91	2.34	4.95	0.92	0.44	0.10	0.12
99092 Job #03J1690	2	38	3	1	<0.01	0.50	0.60	5.35	0.25	0.34	0.05	0.07
99168 Job #03J1691	4	106	4	1	<0.01	0.60	2.07	4.41	0.72	0.38	0.14	0.09
99189 Job #03J1691	5	127	5	6	<0.01	0.72	2.42	6.02	1.17	0.33	0.12	0.11
95833 Job #03J1693	<2	61	2	1	<0.01	0.14	3.61	4.90	1.67	0.09	0.04	<0.01
99359 Job #03J1693	2	112	4	3	<0.01	0.61	1.58	6.31	0.70	0.31	0.08	0.11
RE 95083 Job #03I1571	2	66	3	2	<0.01	0.21	2.94	7.63	1.33	0.19	0.06	<0.01
RE 97377 Job #03J1650	<2	43	3	4	0.01	0.35	1.47	6.91	0.89	0.26	0.05	0.06
RE 97690 Job #03J1675	4	38	4	5	0.02	0.93	1.32	7.94	0.84	0.34	0.05	0.08

Minimum Detection	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	10000	10.00	10.00	10.00	10.00	10.00	10.00	10.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

ID: 03K1946

Phone: (604) 279-7979
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 [194609:02:06:30112603:001]

INTERNATIONAL PLASMA LABORATORY LTD.

11 Samples

Out: Nov 26, 2003 In: Nov 18, 2003

bcMetals
 Project : None Given
 Shipper : J. Richard
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B211	10	Rock	crush, split & pulverize	12M/Dis	03M/Dis
B31108	1	CoarsePu	Coarse Pulp- Sample pulv. & prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: ICP(Multi-Acid)30 in ppm / Au(FA/AAS 20g) S(T)

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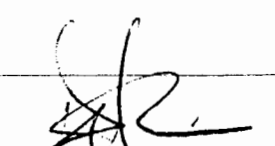
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 North Vancouver DL 3D EM BT BL
 B.C. V7N 3K6 0 0 0 0 0
 Canada
 Att: J.Richard Ph: (604)985-2243
 Fx: (604)985-2247
 Em: jrwood@direct.ca

##	Code	Method	Units	Description	Element	Limit	Limit
						Low	High
01	0312	FA/AAS	ppb	Au FA/AAS finish 20g	Gold	5	10000
02	0135	Leco	%	S(tot) Assay by LECO in %	Sulfur (LECO)	0.01	100.00
03	0751	ICPM	ppm	Al ICP(Multi-Acid)	Aluminum	100	50000
04	0752	ICPM	ppm	Sb ICP(Multi-Acid) Depressed	Antimony	5	2000
05	0753	ICPM	ppm	As ICP(Multi-Acid) Depressed	Arsenic	5	10000
06	0754	ICPM	ppm	Ba ICP(Multi-Acid)	Barium	2	10000
07	0755	ICPM	ppm	Bi ICP(Multi-Acid)	Bismuth	2	2000
08	0757	ICPM	ppm	Cd ICP(Multi-Acid)	Cadmium	0.2	2000.0
09	0758	ICPM	ppm	Ca ICP(Multi-Acid)	Calcium	100	100000
10	0759	ICPM	ppm	Cr ICP(Multi-Acid)	Chromium	1	10000
11	0760	ICPM	ppm	Co ICP(Multi-Acid)	Cobalt	1	10000
12	0761	ICPM	ppm	Cu ICP(Multi-Acid)	Copper	1	20000
13	0762	ICPM	ppm	Fe ICP(Multi-Acid)	Iron	100	50000
14	0763	ICPM	ppm	La ICP(Multi-Acid)	Lanthanum	2	10000
15	0764	ICPM	ppm	Pb ICP(Multi-Acid) Depressed	Lead	2	10000
16	0765	ICPM	ppm	Mg ICP(Multi-Acid)	Magnesium	100	100000
17	0766	ICPM	ppm	Mn ICP(Multi-Acid)	Manganese	1	10000
18	0782	ICPM	ppm	Hg ICP(Multi-Acid)	Mercury	3	10000
19	0767	ICPM	ppm	Mo ICP(Multi-Acid)	Molybdenum	1	1000
20	0768	ICPM	ppm	Ni ICP(Multi-Acid)	Nickel	1	10000
21	0769	ICPM	ppm	P ICP(Multi-Acid)	Phosphorus	100	50000
22	0770	ICPM	ppm	K ICP(Multi-Acid)	Potassium	100	100000
23	0786	ICPM	ppm	Sc ICP(Multi-Acid)	Scandium	1	10000
24	0771	ICPM	ppm	Ag ICP(Multi-Acid)	Silver	0.1	100.0
25	0772	ICPM	ppm	Na ICP(Multi-Acid)	Sodium	100	100000
26	0773	ICPM	ppm	Sr ICP(Multi-Acid)	Strontium	1	10000
27	0797	ICPM	ppm	Tl ICP(Multi-Acid)	Thallium	2	1000
28	0776	ICPM	ppm	Ti ICP(Multi-Acid)	Titanium	100	100000
29	0777	ICPM	ppm	W ICP(Multi-Acid)	Tungsten	5	1000
30	0779	ICPM	ppm	V ICP(Multi-Acid)	Vanadium	1	10000
31	0780	ICPM	ppm	Zn ICP(Multi-Acid)	Zinc	1	10000
32	0781	ICPM	ppm	Zr ICP(Multi-Acid)	Zirconium	1	10000

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

194609-02:06:30112603:001

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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: None Given

Ship# 11 Samples
10=Rock 1=CoarsePulp

[194609:02:06:30112603:001]

Out: Nov 26, 2003
In : Nov 18, 2003

Page 1 of 1
Section 1 of 2

Sample Name	Type	Au ppb	S(tot) %	Al ppm	Sb ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Fe ppm	La ppm	Pb ppm	Mg ppm	Mn ppm	Hg ppm
W-03-01R	Rock	<5	—	7.8%	<5	<5	670	<2	<0.2	587	14	10	26	9.3%	26	27	3350	70	<3
W-03-02R	Rock	<5	—	10%	<5	<5	537	<2	<0.2	672	14	12	35	7.6%	26	28	4737	188	<3
W-03-03R	Rock	<5	—	6066	<5	<5	177	<2	<0.2	455	331	<1	30	3868	2	4	232	33	<3
W-03-04R	Rock	<5	—	32975	<5	<5	100	<2	<0.2	1323	127	2	9	6125	9	13	909	20	<3
W-03-08R	Rock	—	—	6.6%	<5	<5	392	<2	<0.2	1090	50	13	52	6.5%	22	20	393	21	<3
W-03-09R	Rock	<5	—	6.6%	<5	<5	731	<2	<0.2	5532	80	17	18	7.7%	16	24	5616	672	<3
W-03-10R	CoarsePulp	—	0.33	47554	<5	<5	698	<2	<0.2	3554	90	254	133	17%	14	328	8390	2.0%	<3
W-03-11R	Rock	—	—	6.9%	<5	<5	188	<2	<0.2	755	51	14	88	49068	25	34	315	175	<3
W-03-12R	Rock	<5	—	6.0%	<5	<5	520	<2	<0.2	27001	45	5	458	49259	6	6	13747	230	<3
W-03-13R	Rock	5	—	6.5%	<5	<5	400	<2	<0.2	4951	59	8	2301	36289	5	11	5745	79	<3
W-03-17R	Rock	—	—	9.4%	<5	<5	368	<2	<0.2	58336	327	40	45	6.5%	16	16	47357	847	<3

Minimum Detection	5	0.01	100	5	5	2	2	0.2	100	1	1	1	100	2	2	100	1	3
Maximum Detection	10000	100.00	50000	2000	10000	10000	2000	2000.0	100000	10000	10000	20000	50000	10000	10000	100000	10000	10000
Method	FA/AAS	Leco	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

iPL 03K1946

Company: iPL
 Phone: (604) 879-2878
 Fax: (604) 879-2888
 Email: iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD

Client: bcMetals
 Project: None Given

11 Samples
 Ship# 10=Rock 1=CoarsePulp

[194609:02:06:30112603:001]
 Out: Nov 26, 2003
 In: Nov 18, 2003

Page 1 of 1
 Section 2 of 2

Sample Name	Mo ppm	Ni ppm	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	V ppm	Zn ppm	Zr ppm
W-03-01R	5	<1	1130	7862	13	<0.1	2972	117	<2	6460	<5	43	17	273
W-03-02R	4	<1	904	8892	27	<0.1	5314	78	<2	7949	<5	48	27	388
W-03-03R	<1	2	<100	608	1	<0.1	509	6	<2	555	<5	2	6	133
W-03-04R	<1	2	499	1049	3	<0.1	712	59	<2	1468	<5	16	18	216
W-03-08R	<1	<1	945	4133	7	<0.1	2891	305	<2	3569	<5	30	5	212
W-03-09R	3	<1	1472	23062	10	0.1	2722	77	<2	4375	<5	32	108	222
W-03-10R	8	<1	351	14434	55	20.9	2937	69	<2	14%	9	722	308	350
W-03-11R	3	3	352	1181	17	0.2	1886	35	<2	6931	<5	88	30	323
W-03-12R	7	<1	213	27319	10	2.1	2726	380	<2	2299	<5	59	65	28
W-03-13R	4	<1	266	30345	9	2.2	2905	495	<2	2261	<5	25	30	40
W-03-17R	6	101	717	15734	21	<0.1	30634	449	<2	7392	<5	167	73	169

Minimum Detection	1	1	100	100	1	0.1	100	1	2	100	5	1	1	1
Maximum Detection	1000	10000	50000	100000	10000	100.0	100000	10000	1000	100000	1000	10000	10000	10000
Method	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

IP-03K2004

Case # 91
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email: iplab@telus.net
 [200416:36:07:30120303:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:

Comment:
 Batch #2 samples from previous jobs
 for every sample > 0.20% Cu

127 Samples

Out: Dec 03, 2003 In: Nov 27, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	127	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: ICP(AqR)30 in ppm

##	Code	Method	Units	Description	Element	Limit	
						Low	High
01	0701	ICP	ppm	Al ICP (Incomplete Digestion)	Aluminum	100	50000
02	0702	ICP	ppm	Sb ICP	Antimony	5	2000
03	0703	ICP	ppm	As ICP	Arsenic	5	10000
04	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	10000
05	0705	ICP	ppm	Bi ICP	Bismuth	2	2000
06	0707	ICP	ppm	Cd ICP	Cadmium	0.2	2000.0
07	0708	ICP	ppm	Ca ICP (Incomplete Digestion)	Calcium	100	100000
08	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	10000
09	0710	ICP	ppm	Co ICP	Cobalt	1	10000
10	0711	ICP	ppm	Cu ICP	Copper	1	10000
11	0712	ICP	ppm	Fe ICP (Incomplete Digestion)	Iron	100	50000
12	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	10000
13	0714	ICP	ppm	Pb ICP	Lead	2	10000
14	0715	ICP	ppm	Mg ICP (Incomplete Digestion)	Magnesium	100	100000
15	0716	ICP	ppm	Mn ICP	Manganese	1	10000
16	0732	ICP	ppm	Hg ICP	Mercury	3	10000
17	0717	ICP	ppm	Mo ICP	Molydenum	1	1000
18	0718	ICP	ppm	Ni ICP	Nickel	1	10000
19	0719	ICP	ppm	P ICP	Phosphorus	100	50000
20	0720	ICP	ppm	K ICP (Incomplete Digestion)	Potassium	100	100000
21	0736	ICP	ppm	Sc ICP	Scandium	1	10000
22	0721	ICP	ppm	Ag ICP	Silver	0.1	100.0
23	0722	ICP	ppm	Na ICP (Incomplete Digestion)	Sodium	100	100000
24	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	10000
25	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	1000
26	0726	ICP	ppm	Ti ICP (Incomplete Digestion)	Titanium	100	100000
27	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	1000
28	0729	ICP	ppm	V ICP (Incomplete Digestion)	Vanadium	1	10000
29	0730	ICP	ppm	Zn ICP	Zinc	1	10000
30	0731	ICP	ppm	Zr ICP (Incomplete Digestion)	Zirconium	1	10000

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS

ID: 03K2004

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 Email ipiah@telus.net

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

Ship# **127 Samples**
127=Pulp

[200416:36:07:30120303:001]

Out: Dec 03, 2003
In : Nov 27, 2003

Page 1 of 4
Section 1 of 2

Sample Name	Type	Al ppm	Sb ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Fe ppm	La ppm	Pb ppm	Mg ppm	Mn ppm	Hg ppm	Mo ppm	Ni ppm
95819 Job #03J1699	Pulp	2135	90	<5	9	<2	<0.2	33725	66	7	1.7%	6.0%	<2	15	15362	973	<3	4	<1
97955 Job #03J1700	Pulp	4934	18	<5	60	<2	<0.2	46912	31	2	5453	5.5%	5	4	20138	1023	<3	5	<1
99208 Job #03J1700	Pulp	6100	9	<5	9	10	<0.2	19360	20	10	6296	7.0%	5	11	9891	570	<3	5	<1
97936 Job #03J1702	Pulp	5650	<5	<5	26	<2	<0.2	44834	28	5	4105	5.8%	6	12	17645	1584	<3	5	<1
99247 Job #03J1702	Pulp	5979	<5	<5	2	<2	<0.2	17418	31	9	3156	6.5%	4	<2	8130	270	<3	5	<1
99277 Job #03J1702	Pulp	5371	<5	<5	2	4	<0.2	21340	21	10	2692	5.6%	4	23	8993	379	<3	4	<1
99290 Job #03J1703	Pulp	4370	<5	<5	<2	<2	<0.2	6169	41	7	4494	6.4%	4	10	2508	131	<3	3	<1
99313 Job #03J1703	Pulp	5663	<5	<5	7	<2	<0.2	22038	14	11	2292	6.1%	5	7	9784	293	<3	2	<1
99342 Job #03J1703	Pulp	6448	<5	<5	5	<2	<0.2	21043	54	11	3354	5.9%	5	<2	9859	447	<3	3	<1
95982 Job #03J1704	Pulp	438	<5	<5	10	<2	<0.2	16387	108	1	3.3%	8.0%	<2	5	8103	829	<3	3	<1
96003 Job #03J1704	Pulp	3960	32	<5	26	<2	<0.2	17044	63	3	1.3%	6.8%	4	14	8790	1142	<3	1	<1
95942 Job #03J1705	Pulp	4289	<5	<5	29	<2	<0.2	27429	28	4	7070	7.2%	4	10	11370	1108	<3	5	<1
95963 Job #03J1706	Pulp	8742	<5	<5	9	<2	<0.2	23785	37	13	2791	7.5%	6	4	12595	398	<3	15	<1
98023 Job #03J1706	Pulp	5980	58	<5	27	<2	<0.2	44664	60	7	7354	6.9%	7	9	19601	1463	<3	6	<1
98046 Job #03J1706	Pulp	10966	18	<5	18	<2	<0.2	23155	48	5	2967	43607	9	10	9600	768	<3	2	1
97979 Job #03J1707	Pulp	1537	63	<5	8	8	<0.2	17510	100	3	2.6%	7.9%	2	10	9022	1138	<3	5	<1
99453 Job #03J1707	Pulp	5378	<5	<5	5	<2	<0.2	17875	30	12	6914	7.9%	4	7	7315	662	<3	3	<1
99477 Job #03J1707	Pulp	5202	<5	<5	<2	<2	<0.2	6501	75	10	9175	7.7%	3	6	2741	176	<3	5	<1
99377 Job #03J1713	Pulp	7577	<5	<5	9	3	<0.2	26163	25	12	4376	5.8%	10	<2	13650	436	<3	5	<1
99405 Job #03J1713	Pulp	4189	<5	<5	5	<2	<0.2	23838	63	6	7672	6.2%	4	10	10169	308	<3	4	<1
99497 Job #03J1714	Pulp	3737	9	<5	4	<2	<0.2	14643	68	12	1.2%	7.3%	3	12	7023	552	<3	8	<1
99522 Job #03J1714	Pulp	5018	189	19	<2	<2	23.0	24642	30	10	7267	8.4%	5	3136	12066	1706	<3	3	<1
94029 Job #03J1726	Pulp	4048	24	<5	25	<2	<0.2	25159	79	4	1.8%	7.7%	5	28	11901	1142	<3	4	<1
94054 Job #03J1726	Pulp	8978	<5	<5	100	<2	<0.2	34960	23	6	2255	48363	6	7	12015	818	<3	3	<1
94102 Job #03J1726	Pulp	3528	8	<5	21	10	<0.2	17928	65	5	1.3%	8.0%	5	10	8582	1651	<3	3	<1
96015 Job #03J1729	Pulp	4269	18	<5	31	3	<0.2	17166	87	5	1.7%	7.6%	5	8	9233	913	<3	3	<1
96037 Job #03J1729	Pulp	6466	12	<5	86	4	<0.2	24205	8	4	2961	44481	9	17	8697	1098	<3	5	<1
98071 Job #03J1729	Pulp	6319	12	<5	6	<2	<0.2	37586	45	14	2332	5.8%	5	12	16375	996	<3	10	<1
98093 Job #03J1729	Pulp	6096	<5	<5	5	5	<0.2	29136	31	11	3710	6.6%	5	8	13161	570	<3	10	<1
99534 Job #03J1741	Pulp	4902	<5	<5	8	<2	<0.2	27896	34	7	3726	6.0%	5	8	14580	751	<3	3	<1
99562 Job #03J1741	Pulp	5961	<5	<5	4	<2	<0.2	26293	42	10	2323	5.9%	4	25	14764	427	<3	6	<1
99599 Job #03J1741	Pulp	6190	<5	<5	7	16	<0.2	20518	31	10	2613	6.7%	5	6	12306	561	<3	4	<1
94145 Job #03J1745	Pulp	4427	<5	<5	<2	<2	<0.2	25943	56	11	3479	7.5%	4	40	10350	1005	<3	8	<1
94171 Job #03J1745	Pulp	4462	51	<5	16	<2	<0.2	26700	71	4	1.2%	7.5%	5	9	12864	1133	<3	4	<1
94194 Job #03J1745	Pulp	4518	11	<5	49	<2	<0.2	26116	60	4	9273	6.1%	4	5	12426	897	<3	4	<1
94215 Job #03J1745	Pulp	5620	12	<5	3	<2	<0.2	26984	45	8	4589	46430	5	22	12513	613	<3	5	<1
94236 Job #03J1745	Pulp	4393	<5	<5	8	<2	<0.2	22465	50	6	3703	44522	6	8	7677	437	<3	5	<1
94271 Job #03J1749	Pulp	4903	<5	<5	<2	3	<0.2	20906	26	10	4500	6.2%	5	13	8855	440	<3	<1	<1
94293 Job #03J1749	Pulp	3879	58	<5	<2	<2	<0.2	23885	39	11	7539	7.6%	3	40	9044	1680	<3	4	<1

Minimum Detection	100	5	5	2	2	0.2	100	1	1	1	100	2	2	100	1	3	1	1
Maximum Detection	50000	2000	10000	10000	2000	2000.0	100000	10000	10000	10000	50000	10000	10000	100000	10000	10000	1000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

in L 03K2004

INTERNATIONAL PLASMA LABORATORY LTD

Case: 12704
 Phone: (604) 979-7878
 Fax: (604) 979-7808
 Email: iplab@telus.net

Client : bcMetals
 Project: Red Chris

Ship# 127 Samples
 127=Puip

[200416:36:07:30120303:001]

Out: Dec 03, 2003
 In : Nov 27, 2003

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Sample Name	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	V ppm	Zn ppm	Zr ppm
95819 Job #03J1699	<100	1509	2	6.3	485	56	<10	<100	8	19	58	3
97955 Job #03J1700	783	2063	7	1.4	689	105	<10	<100	6	54	87	3
99208 Job #03J1700	1027	3760	5	0.6	608	82	<10	<100	11	35	33	5
97936 Job #03J1702	951	2592	7	0.8	792	92	<10	<100	9	48	117	4
99247 Job #03J1702	1078	2693	4	0.3	680	75	<10	<100	<5	31	29	5
99277 Job #03J1702	1287	2940	7	0.2	254	48	<10	<100	<5	21	131	7
99290 Job #03J1703	662	2977	<1	0.6	305	51	<10	<100	8	1	39	4
99313 Job #03J1703	1282	3451	2	0.1	886	99	<10	<100	6	13	16	7
99342 Job #03J1703	1201	3926	3	0.3	993	110	<10	<100	6	17	25	7
95982 Job #03J1704	<100	232	<1	4.3	252	12	<10	<100	11	34	54	2
96003 Job #03J1704	288	2412	3	3.7	885	72	<10	<100	<5	36	123	3
95942 Job #03J1705	1071	3225	5	1.4	936	124	<10	<100	6	34	128	3
95963 Job #03J1706	1354	5059	2	0.3	463	70	<10	<100	<5	24	20	9
98023 Job #03J1706	786	1882	9	2.9	753	94	<10	<100	9	60	128	3
98046 Job #03J1706	1368	1997	14	0.3	691	67	<10	<100	5	82	97	2
97979 Job #03J1707	<100	899	1	6.9	336	19	<10	<100	10	38	74	2
99453 Job #03J1707	849	3649	2	0.1	362	34	<10	<100	<5	12	18	5
99477 Job #03J1707	686	3366	2	0.6	463	40	<10	<100	<5	15	12	4
99377 Job #03J1713	1083	3621	7	0.8	1277	239	<10	<100	7	55	53	4
99405 Job #03J1713	583	2728	2	1.0	601	63	<10	<100	<5	25	30	3
99497 Job #03J1714	317	2857	2	0.7	364	26	<10	<100	7	20	19	4
99522 Job #03J1714	652	2985	3	14.3	683	59	<10	<100	<5	19	4255	4
94029 Job #03J1726	476	2446	4	2.9	455	55	<10	<100	<5	42	172	4
94054 Job #03J1726	1735	3523	9	0.4	1274	130	<10	<100	<5	69	158	2
94102 Job #03J1726	532	2887	7	3.3	472	46	<10	<100	<5	51	113	4
96015 Job #03J1729	441	2566	4	3.6	848	68	<10	<100	7	41	104	3
96037 Job #03J1729	1676	3572	7	0.6	1791	147	<10	<100	<5	39	134	2
98071 Job #03J1729	1020	1440	7	0.6	636	60	<10	<100	13	63	63	4
98093 Job #03J1729	843	1966	4	0.5	668	59	<10	<100	<5	43	66	3
99534 Job #03J1741	993	3101	3	0.6	773	73	<10	<100	7	25	46	3
99562 Job #03J1741	1074	3267	3	0.5	300	35	<10	<100	<5	22	98	7
99599 Job #03J1741	1114	3271	3	0.5	444	47	<10	<100	8	23	33	5
94145 Job #03J1745	595	2507	2	0.5	603	59	<10	<100	7	18	303	5
94171 Job #03J1745	439	2069	6	3.1	790	83	<10	<100	<5	47	112	3
94194 Job #03J1745	536	2607	4	2.7	839	67	<10	<100	5	38	86	2
94215 Job #03J1745	984	2737	4	0.6	317	82	<10	<100	<5	17	116	5
94236 Job #03J1745	970	2769	4	0.4	1012	71	<10	<100	<5	27	34	4
94271 Job #03J1749	831	2917	3	1.2	683	64	<10	<100	<5	19	34	4
94293 Job #03J1749	905	2671	6	1.8	647	68	<10	<100	<5	28	110	5

Minimum Detection 100 100 1 0.1 100 1 10 100 5 1 1 1
 Maximum Detection 50000 100000 10000 100.0 100000 10000 1000 100000 1000 10000 10000 10000
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Rec Check m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

127=03K2004

INTERNATIONAL PLASMA LABORATORY LTD

Phone: (604) 379-7898
 Fax: (604) 379-7898
 Email: iplab@telus.net

Client: bcMetals
 Project: Red Chris

Ship# 127 Samples
 127=Pulp

[200416:36:07:30120303:001]

Out: Dec 03, 2003
 In: Nov 27, 2003

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 Section 1 of 2

Sample Name	Type	Al ppm	Sb ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Fe ppm	La ppm	Pb ppm	Mg ppm	Mn ppm	Hg ppm	Mo ppm	Ni ppm
94315 Job #03J1749	Pulp	5348	11	<5	<2	<2	<0.2	15095	21	13	5890	8.4%	4	16	6464	549	<3	6	<1
98150 Job #03J1755	Pulp	5233	<5	<5	4	<2	<0.2	12966	46	14	2601	7.8%	4	12	5713	174	<3	4	<1
98176 Job #03J1755	Pulp	3769	154	<5	6	<2	<0.2	9214	73	23	8419	10%	<2	8	3955	435	<3	25	<1
98199 Job #03J1755	Pulp	6382	<5	<5	<2	<2	<0.2	26075	32	17	6747	8.5%	4	12	11857	387	<3	11	<1
98294 Job #03J1756	Pulp	5412	<5	<5	3	<2	<0.2	16417	42	13	5305	7.6%	4	6	7429	215	<3	5	<1
98317 Job #03J1756	Pulp	5199	<5	<5	5	<2	<0.2	16625	42	11	2729	49229	7	14	7669	438	<3	12	<1
99663 Job #03J1759	Pulp	6971	<5	<5	7	7	<0.2	21527	11	11	4270	6.0%	5	3	10575	321	<3	8	<1
98119 Job #03J1765	Pulp	4552	<5	<5	4	<2	<0.2	20489	33	10	2944	6.2%	4	17	7790	376	<3	7	10
98206 Job #03J1765	Pulp	5159	<5	<5	5	<2	<0.2	17512	27	14	6807	6.8%	4	5	11003	309	<3	11	<1
98230 Job #03J1765	Pulp	5634	<5	<5	10	<2	<0.2	16041	16	18	4308	6.0%	7	3	8262	215	<3	14	<1
98350 Job #03J1766	Pulp	5158	<5	<5	3	<2	<0.2	23561	19	13	4412	6.9%	5	5	13086	506	<3	3	<1
98234 Job #03J1767	Pulp	5796	<5	<5	16	<2	<0.2	20345	17	15	4738	5.7%	8	7	10211	204	<3	38	<1
98412 Job #03J1773	Pulp	6637	<5	<5	6	<2	<0.2	24617	12	15	3983	5.8%	6	42	10895	341	<3	6	<1
99619 Job #03J1774	Pulp	7141	<5	<5	4	6	<0.2	24536	16	7	5072	7.0%	6	14	13912	573	<3	5	<1
99647 Job #03J1774	Pulp	2765	<5	<5	8	<2	<0.2	4985	58	14	2.4%	12%	<2	8	2352	119	<3	5	<1
94340 Job #03J1777	Pulp	5496	<5	<5	4	5	<0.2	24466	25	8	5412	48667	4	28	11125	733	<3	13	<1
98464 Job #03J1777	Pulp	6961	<5	<5	11	<2	<0.2	33996	16	10	4374	46270	5	8	14942	739	<3	7	<1
98488 Job #03J1777	Pulp	4449	<5	<5	4	<2	<0.2	37958	31	11	5315	6.0%	6	11	18373	946	<3	12	<1
98452 Job #03J1778	Pulp	4669	<5	<5	6	<2	<0.2	26411	22	11	3992	6.6%	5	9	14603	1012	<3	11	<1
94416 Job #03J1789	Pulp	5065	<5	<5	3	<2	<0.2	32378	24	13	3669	6.4%	6	18	16214	788	<3	4	<1
98530 Job #03J1789	Pulp	5409	<5	<5	3	<2	<0.2	18377	86	17	6295	9.3%	4	9	10193	324	<3	6	22
98539 Job #03J1793	Pulp	6166	157	<5	8	<2	<0.2	37404	38	11	2386	5.3%	6	34	15506	1065	<3	5	<1
94411 Job #03J1795	Pulp	8736	<5	<5	<2	<2	<0.2	31647	24	16	2401	7.5%	7	18	12953	551	<3	6	<1
98566 Job #03J1795	Pulp	7303	<5	<5	3	<2	<0.2	21574	39	11	4823	6.9%	3	8	9185	395	<3	5	<1
98601 Job #03J1795	Pulp	5808	<5	<5	8	2	<0.2	11951	76	17	1.1%	12%	2	6	8165	360	<3	9	<1
98599 Job #03J1799	Pulp	5650	<5	<5	4	<2	<0.2	41952	11	9	2223	6.8%	7	23	23266	1435	<3	8	<1
94486 Job #03J1802	Pulp	6289	<5	<5	<2	<2	<0.2	42262	27	11	1.3%	7.4%	5	12	17509	629	<3	3	<1
94523 Job #03J1802	Pulp	4271	<5	<5	5	<2	<0.2	21136	22	9	3788	6.2%	5	7	8915	543	<3	2	<1
94512 Job #03J1805	Pulp	4291	6	<5	<2	<2	<0.2	38707	20	11	2522	7.4%	5	27	17796	781	<3	5	<1
94543 Job #03J1805	Pulp	4356	<5	<5	<2	<2	<0.2	21095	33	13	5080	7.8%	3	5	8548	469	<3	4	<1
96188 Job #03J1805	Pulp	6933	<5	<5	16	<2	<0.2	15331	16	5	4584	33676	6	100	5796	937	<3	4	<1
94568 Job #03J1811	Pulp	6157	<5	<5	8	4	<0.2	25702	29	14	4593	6.5%	4	14	9920	742	<3	4	<1
94589 Job #03J1811	Pulp	3767	<5	<5	2	<2	<0.2	12486	92	12	1.5%	10.0%	5	25	7520	349	<3	5	<1
94610 Job #03J1811	Pulp	4534	<5	<5	3	<2	<0.2	5837	72	9	1.6%	7.6%	5	14	2518	191	<3	3	<1
96207 Job #03J1817	Pulp	6209	<5	<5	6	<2	<0.2	14832	34	12	7144	45965	7	18	5422	202	<3	5	<1
96228 Job #03J1817	Pulp	3695	<5	<5	7	<2	<0.2	9684	55	18	7704	12%	6	12	4309	258	<3	14	<1
94643 Job #03J1831	Pulp	5860	<5	<5	4	<2	<0.2	14449	36	10	5310	6.5%	3	21	6765	308	<3	8	<1
96234 Job #03J1831	Pulp	4153	<5	<5	6	<2	<0.2	22639	49	12	5931	5.1%	6	18	9415	421	<3	11	<1
96264 Job #03J1836	Pulp	5615	<5	<5	<2	<2	<0.2	16418	11	12	5536	8.7%	4	11	7846	405	<3	7	<1

Minimum Detection	100	5	5	2	2	0.2	100	1	1	1	100	2	2	100	1	3	1	1
Maximum Detection	50000	2000	10000	10000	2000	2000.0	100000	10000	10000	10000	50000	10000	10000	100000	10000	10000	1000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

i 03K2004

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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project : Red Chris

127 Samples
 Ship# 127=Pulp

[200416:36:07:30120303:001]

Out: Dec 03, 2003
 In : Nov 27, 2003

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 Section 2 of 2

Sample Name	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	V ppm	Zn ppm	Zr ppm
94315 Job #03J1749	722	4079	2	1.0	588	55	<10	<100	5	19	33	3
98150 Job #03J1755	1207	3126	1	0.2	399	63	<10	<100	8	11	14	6
98176 Job #03J1755	496	2775	1	1.1	464	29	<10	<100	<5	10	61	4
98199 Job #03J1755	888	2660	4	0.9	513	68	<10	<100	7	42	34	5
98294 Job #03J1756	979	3361	3	0.4	373	57	<10	<100	<5	19	16	6
98317 Job #03J1756	1095	3615	3	0.5	486	52	<10	<100	9	16	25	5
99663 Job #03J1759	1165	3465	4	0.5	731	66	<10	<100	5	34	47	3
98119 Job #03J1765	1081	2744	<1	0.2	304	24	<10	<100	7	10	73	6
98206 Job #03J1765	932	3106	4	0.7	625	81	<10	<100	<5	38	42	4
98230 Job #03J1765	1091	2884	6	0.6	490	353	<10	<100	7	49	34	5
98350 Job #03J1766	830	3058	4	0.8	820	62	<10	<100	7	31	45	4
98234 Job #03J1767	1058	3484	5	0.6	640	874	<10	<100	<5	30	27	3
98412 Job #03J1773	1438	3460	4	0.5	420	88	<10	<100	<5	20	168	6
99619 Job #03J1774	1064	4005	5	0.4	897	60	<10	<100	8	35	49	4
99647 Job #03J1774	107	1863	1	1.5	400	16	<10	<100	14	31	21	2
94340 Job #03J1777	848	2857	3	0.9	318	26	<10	<100	8	17	136	4
98464 Job #03J1777	855	3031	5	0.4	805	69	<10	<100	<5	31	44	3
98488 Job #03J1777	766	2229	4	1.2	586	117	<10	<100	10	20	55	3
98452 Job #03J1778	954	2943	4	0.5	860	64	<10	<100	7	30	62	5
94416 Job #03J1789	1203	2746	7	0.6	1216	117	<10	<100	5	38	62	4
98530 Job #03J1789	920	3651	4	0.5	376	36	<10	<100	7	17	32	5
98539 Job #03J1793	1207	3482	3	1.1	674	116	<10	<100	<5	20	140	5
94411 Job #03J1795	1335	3411	6	0.6	911	90	<10	<100	7	39	73	6
98566 Job #03J1795	1110	4226	4	0.4	713	107	<10	<100	<5	22	24	6
98601 Job #03J1795	458	4096	2	1.6	616	84	<10	<100	11	52	57	4
98599 Job #03J1799	1077	2359	11	0.8	373	104	<10	<100	<5	42	93	4
94486 Job #03J1802	968	2132	7	1.2	856	82	<10	<100	<5	63	49	4
94523 Job #03J1802	861	2719	3	0.7	615	47	<10	<100	<5	25	44	4
94512 Job #03J1805	997	2482	6	0.4	780	80	<10	<100	<5	22	300	6
94543 Job #03J1805	855	2476	3	0.4	682	43	<10	<100	9	20	23	5
96188 Job #03J1805	1367	2468	4	1.3	390	48	<10	<100	<5	31	1009	3
94568 Job #03J1811	1123	3511	6	0.4	977	72	<10	<100	<5	31	47	6
94589 Job #03J1811	202	2676	3	1.5	469	28	<10	<100	10	88	178	4
94610 Job #03J1811	435	3307	2	0.9	478	33	<10	<100	<5	49	13	4
96207 Job #03J1817	1182	3461	3	0.8	416	32	<10	<100	6	16	14	5
96228 Job #03J1817	292	3120	<1	2.7	462	32	<10	<100	9	19	36	4
94643 Job #03J1831	1025	3311	2	0.6	428	42	<10	<100	<5	15	53	5
96234 Job #03J1831	945	2809	2	0.8	469	55	<10	<100	8	14	51	4
96264 Job #03J1836	1127	3378	4	0.9	719	87	<10	<100	<5	31	34	6

Minimum Detection	100	100	1	0.1	100	1	10	100	5	1	1	1
Maximum Detection	50000	100000	10000	100.0	100000	10000	1000	100000	1000	10000	10000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

Job # 03K2004

Tel: (604) 879-7878
 Fax: (604) 879-7898
 Email: iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

Ship# 127 Samples
 127=Pu1p

[200416:36:07:30120303:001]

Out: Dec 03, 2003
 In : Nov 27, 2003

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 Section 1 of 2

Sample Name	Type	Al ppm	Sb ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Fe ppm	La ppm	Pb ppm	Mg ppm	Mn ppm	Hg ppm	Mo ppm	Ni ppm
96335 Job #03K1838	Pulp	4748	<5	<5	4	<2	<0.2	11687	13	13	3743	45501	6	10	4012	307	<3	24	<1
98714 Job #03K1838	Pulp	4113	9	<5	<2	<2	<0.2	21515	20	9	6869	6.0%	4	22	9730	720	<3	4	<1
96323 Job #03K1839	Pulp	4439	<5	<5	20	3	<0.2	8258	11	12	3247	32219	9	10	2628	129	<3	19	<1
98748 Job #03K1839	Pulp	3954	<5	<5	<2	<2	<0.2	11938	32	8	1.1%	6.3%	<2	10	5489	193	<3	4	<1
96353 Job #03K1855	Pulp	8067	<5	<5	12	<2	<0.2	30857	21	15	2331	5.8%	13	22	12527	770	<3	14	<1
98808 Job #03K1855	Pulp	4003	<5	<5	4	5	<0.2	23934	39	8	6932	6.7%	4	11	8660	532	<3	7	<1
96451 Job #03K1857	Pulp	6867	<5	<5	4	5	<0.2	26436	27	12	2942	46207	7	10	10777	351	<3	2	<1
98842 Job #03K1858	Pulp	3903	23	<5	4	5	<0.2	21871	41	9	8208	7.0%	<2	10	9837	931	<3	4	<1
98867 Job #03K1859	Pulp	5216	<5	<5	4	<2	<0.2	29295	18	8	3593	5.5%	6	30	14128	550	<3	4	<1
98934 Job #03K1885	Pulp	4010	<5	<5	2	<2	<0.2	20517	36	12	6842	7.6%	4	27	8358	555	<3	7	<1
98968 Job #03K1885	Pulp	3988	6	<5	<2	<2	<0.2	28082	26	11	2351	5.8%	7	27	12847	885	<3	5	<1
98990 Job #03K1885	Pulp	4168	36	<5	6	<2	<0.2	24409	41	10	5730	7.0%	3	10	10567	648	<3	4	<1
98913 Job #03K1886	Pulp	5780	<5	<5	19	<2	<0.2	35954	14	10	2217	45215	8	12	13019	621	<3	7	<1
94667 Job #03K1888	Pulp	3237	<5	<5	<2	7	<0.2	13837	45	13	1.8%	8.4%	3	14	6233	311	<3	5	<1
94707 Job #03K1888	Pulp	14044	<5	<5	11	6	<0.2	15846	22	12	1.0%	7.4%	8	17	12973	338	<3	6	<1
96563 Job #03K1888	Pulp	5920	102	<5	2	<2	<0.2	7135	17	12	5481	6.9%	3	30	2793	156	<3	20	<1
94712 Job #03K1891	Pulp	7313	<5	<5	9	<2	<0.2	32605	26	8	5632	5.2%	6	10	13710	290	<3	5	<1
96574 Job #03K1891	Pulp	5336	<5	<5	6	<2	<0.2	19731	36	9	6021	6.6%	5	19	8705	340	<3	6	<1
94750 Job #03K1900	Pulp	4933	<5	<5	4	<2	<0.2	12132	29	11	2550	48968	4	15	4959	294	<3	43	<1
96621 Job #03K1900	Pulp	4399	<5	<5	7	<2	<0.2	26014	51	10	4460	5.8%	4	10	13054	498	<3	11	<1
96642 Job #03K1900	Pulp	5138	<5	<5	24	<2	<0.2	42525	31	12	3271	46821	6	4	16897	533	<3	21	<1
94788 Job #03K1903	Pulp	4711	<5	<5	6	<2	<0.2	6581	38	10	3234	42435	5	8	2269	243	<3	26	<1
94894 Job #03K1909	Pulp	5929	<5	<5	7	<2	<0.2	21475	51	10	6658	5.3%	5	<2	8142	315	<3	20	<1
96760 Job #03K1909	Pulp	5208	<5	<5	<2	<2	<0.2	29701	37	9	6329	7.4%	4	12	13460	723	<3	9	<1
94806 Job #03K1910	Pulp	6587	<5	<5	7	<2	<0.2	18876	34	10	5472	5.0%	4	9	8580	475	<3	13	<1
96683 Job #03K1910	Pulp	4939	<5	<5	2	<2	<0.2	30718	65	15	7668	9.0%	3	9	16377	918	<3	16	<1
94827 Job #03K1911	Pulp	5931	<5	<5	9	<2	<0.2	16861	24	9	4862	42959	5	12	6975	318	<3	9	<1
96691 Job #03K1911	Pulp	5064	6	<5	6	<2	<0.2	29747	24	11	2398	5.9%	5	21	15009	1301	<3	7	<1
94873 Job #03K1925	Pulp	4548	10	<5	7	<2	<0.2	27074	41	9	8905	7.5%	<2	6	14613	632	<3	6	<1
96729 Job #03K1925	Pulp	16883	<5	<5	5	<2	<0.2	9650	54	12	6765	8.2%	9	19	16531	476	<3	5	<1
94917 Job #03K1928	Pulp	12525	<5	<5	<2	<2	<0.2	25591	34	10	5015	6.3%	5	18	12078	522	<3	4	<1
94950 Job #03K1928	Pulp	11895	<5	<5	14	<2	<0.2	11030	56	13	8555	11%	4	11	12870	796	<3	6	<1
94956 Job #03K1931	Pulp	5779	<5	<5	<2	<2	<0.2	20564	29	15	7098	8.7%	4	77	8963	299	<3	4	<1
94983 Job #03K1931	Pulp	6086	92	<5	11	6	<0.2	35780	32	10	9233	7.8%	5	18	19330	1214	<3	4	<1
96836 Job #03K1931	Pulp	7066	<5	<5	<2	<2	<0.2	32057	18	12	3825	7.0%	4	24	15962	889	<3	6	<1
94998 Job #03K1932	Pulp	5647	54	<5	3	<2	<0.2	11744	32	9	6122	7.4%	3	8	6658	601	<3	3	<1
96816 Job #03K1932	Pulp	5293	12	<5	<2	<2	<0.2	26487	42	14	5597	7.1%	4	6	12447	405	<3	6	<1
90018 Job #03K1937	Pulp	6382	<5	<5	<2	<2	<0.2	28511	25	10	2534	6.6%	5	9	12391	456	<3	3	<1
90039 Job #03K1937	Pulp	4699	<5	<5	3	<2	<0.2	23237	38	11	6733	7.9%	5	6	12740	419	<3	5	<1

Minimum Detection 100 5 5 2 2 0.2 100 1 1 1 100 2 2 100 1 3 1 1
 Maximum Detection 50000 2000 10000 10000 2000 2000.0 100000 10000 10000 10000 50000 10000 10000 100000 10000 10000 1000 10000
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Rec'check m=x1000 %=Estimate% NS=No Sample

CERTIFICATE OF ANALYSIS

IF 03K2004

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 Email: inlab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

Ship# 127 Samples
 127=Pulp

[200416:36:07:30120303:001]

Out: Dec 03, 2003
 In : Nov 27, 2003

Page 3 of 4
 Section 2 of 2

Sample Name	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	V ppm	Zn ppm	Zr ppm
96335 Job #03K1838	903	2911	<1	0.6	387	119	<10	<100	7	6	62	5
98714 Job #03K1838	776	2812	<1	1.1	363	46	<10	<100	10	7	37	3
96323 Job #03K1839	981	3432	<1	0.8	302	519	<10	<100	<5	2	51	5
98748 Job #03K1839	671	2668	<1	1.0	389	30	<10	<100	9	4	10	4
96353 Job #03K1855	1153	2317	7	0.2	449	253	<10	<100	<5	51	153	6
98808 Job #03K1855	911	2733	3	0.8	395	61	<10	<100	<5	17	45	5
96451 Job #03K1857	1344	2106	6	0.4	322	46	<10	<100	<5	42	39	6
98842 Job #03K1858	838	2536	2	1.8	412	45	<10	<100	7	15	36	4
98867 Job #03K1859	1174	2036	5	0.8	525	92	<10	<100	7	31	118	5
98934 Job #03K1885	1172	2737	2	1.1	522	61	<10	<100	11	15	81	6
98968 Job #03K1885	1155	2837	3	0.4	665	61	<10	<100	10	18	59	6
98990 Job #03K1885	1010	2766	7	0.8	1091	96	26	<100	<5	52	88	2
98913 Job #03K1886	1293	2259	9	0.2	314	50	<10	<100	<5	47	103	3
94667 Job #03K1888	372	2710	1	1.3	419	29	<10	<100	7	26	30	3
94707 Job #03K1888	821	2225	7	1.3	626	795	<10	<100	7	91	66	3
96563 Job #03K1888	1014	4223	2	1.4	592	52	<10	<100	9	15	43	4
94712 Job #03K1891	1180	2261	8	0.7	599	387	<10	<100	8	43	43	2
96574 Job #03K1891	1011	3975	5	0.5	531	70	<10	<100	7	26	29	4
94750 Job #03K1900	854	3482	<1	0.5	355	98	<10	<100	<5	6	34	6
96621 Job #03K1900	785	1972	7	0.8	625	80	<10	<100	6	58	71	4
96642 Job #03K1900	1121	2859	9	1.2	1076	139	<10	<100	6	51	47	3
94788 Job #03K1903	915	3559	1	0.5	384	44	<10	<100	7	8	13	5
94894 Job #03K1909	1063	4242	5	0.7	716	72	<10	<100	6	27	24	5
96760 Job #03K1909	780	3685	2	1.5	551	59	<10	<100	<5	19	128	3
94806 Job #03K1910	851	3701	1	0.8	375	58	<10	<100	8	13	49	4
96683 Job #03K1910	640	2575	3	1.3	653	56	<10	<100	<5	31	81	4
94827 Job #03K1911	1200	3246	3	1.2	390	48	<10	<100	<5	26	48	4
96691 Job #03K1911	860	3367	5	0.7	704	75	<10	<100	5	19	39	5
94873 Job #03K1925	559	2348	2	1.0	407	44	<10	<100	7	31	64	3
96729 Job #03K1925	1047	3687	7	1.3	745	1411	<10	240	<5	84	111	4
94917 Job #03K1928	1103	2079	6	0.4	632	183	<10	<100	<5	72	97	4
94950 Job #03K1928	772	1913	7	1.5	555	42	<10	<100	19	130	178	2
94956 Job #03K1931	779	4158	2	1.2	761	74	<10	<100	12	26	85	3
94983 Job #03K1931	829	2171	7	1.3	591	76	<10	<100	<5	66	155	3
96836 Job #03K1931	977	2586	5	0.5	504	63	<10	<100	<5	29	128	5
94998 Job #03K1932	872	3963	2	1.8	550	58	<10	<100	<5	14	53	4
96816 Job #03K1932	896	3335	5	1.2	1015	77	<10	<100	10	19	26	5
90018 Job #03K1937	1189	2560	8	0.6	921	82	<10	<100	10	35	53	5
90039 Job #03K1937	827	3117	4	1.0	751	75	<10	<100	11	32	29	3

Minimum Detection 100 100 1 0.1 100 1 10 100 5 1 1 1
 Maximum Detection 50000 100000 10000 100.0 100000 10000 1000 100000 1000 10000 10000 10000
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=RcCheck m=x1000 %=Estimate% NS=No Sample

CERTIFICATE OF ANALYSIS

Job # 03K2004

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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

Ship# 127 Samples
127=Pulp

[200416:36:07:30120303:001]

Out: Dec 03, 2003
In : Nov 27, 2003

Page 4 of 4
Section 1 of 2

Sample Name	Type	Al ppm	Sb ppm	As ppm	Ba ppm	Bi ppm	Cd ppm	Ca ppm	Cr ppm	Co ppm	Cu ppm	Fe ppm	La ppm	Pb ppm	Mg ppm	Mn ppm	Hg ppm	Mo ppm	Ni ppm
96862 Job #03K1937	Pulp	3891	<5	<5	<2	<2	<0.2	15767	44	13	9242	9.7%	3	25	7091	403	<3	5	<1
96869 Job #03K1939	Pulp	4857	<5	<5	4	<2	<0.2	19684	42	11	8251	7.5%	3	8	10705	837	<3	1	<1
90064 Job #03K1940	Pulp	5237	<5	<5	6	<2	<0.2	18315	26	11	2816	5.3%	2	17	8518	599	<3	6	<1
96911 Job #03K1947	Pulp	5091	<5	<5	3	<2	<0.2	10588	45	13	3109	5.6%	<2	11	4256	214	<3	7	<1
90112 Job #03K1949	Pulp	7522	<5	<5	5	<2	<0.2	21023	32	10	3691	5.7%	5	4	9796	363	<3	5	<1
90134 Job #03K1949	Pulp	6204	<5	<5	10	8	<0.2	24754	42	10	3003	6.0%	5	7	13175	397	<3	12	<1
96951 Job #03K1949	Pulp	5852	<5	<5	5	<2	<0.2	34275	30	10	5045	6.2%	6	9	14249	745	<3	6	<1
90181 Job #03K1950	Pulp	5842	<5	<5	9	<2	<0.2	24929	28	14	3940	6.3%	7	8	12478	362	<3	17	<1
96980 Job #03K1950	Pulp	5349	38	<5	3	<2	<0.2	29468	41	9	2840	6.3%	4	6	14014	483	<3	4	<1
90207 Job #03K1954	Pulp	5062	<5	<5	6	5	<0.2	29825	36	14	5316	6.7%	4	<2	15211	425	<3	8	<1

Minimum Detection 100 5 5 2 2 0.2 100 1 1 1 100 2 2 100 1 3 1 1
 Maximum Detection 50000 2000 10000 10000 2000 2000.0 100000 10000 10000 10000 50000 10000 10000 100000 10000 10000 10000 1000 10000
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP
 ---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample

CERTIFICATE OF ANALYSIS

Job # 03K2004

Lab: TELUS
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INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project: Red Chris

127 Samples
 Ship# 127=Pulp

[200416:36:07:30120303:001]

Out: Dec 03, 2003
 In : Nov 27, 2003

Page 4 of 4
 Section 2 of 2

Sample Name	P ppm	K ppm	Sc ppm	Ag ppm	Na ppm	Sr ppm	Tl ppm	Ti ppm	W ppm	V ppm	Zn ppm	Zr ppm
96862 Job #03K1937	653	3044	2	2.1	688	47	<10	<100	15	20	58	4
96869 Job #03K1939	744	3219	3	1.3	697	45	<10	<100	12	33	231	3
90064 Job #03K1940	958	2527	4	0.2	332	44	<10	<100	9	21	124	7
96911 Job #03K1947	1116	3210	2	0.2	610	56	<10	<100	6	11	17	5
90112 Job #03K1949	1124	3998	4	0.4	484	59	<10	<100	<5	25	16	5
90134 Job #03K1949	909	4083	3	0.3	540	66	<10	<100	17	28	30	3
96951 Job #03K1949	1198	2682	10	1.0	1175	90	<10	<100	6	31	47	3
90181 Job #03K1950	1089	3618	7	0.5	896	161	<10	<100	7	38	35	5
96980 Job #03K1950	1050	3080	4	0.8	752	72	<10	<100	<5	24	53	5
90207 Job #03K1954	786	2347	7	0.9	683	67	<10	<100	11	56	39	4

Minimum Detection	100	100	1	0.1	100	1	10	100	5	1	1	1
Maximum Detection	50000	100000	10000	100.0	100000	10000	1000	100000	1000	10000	10000	10000
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

iPL 03H1571

Canada
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 [157116:27:57:30100103:004]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: 2 PO#:
 Comment:

64 Samples

Out: Sep 27, 2003 In: Sep 23, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	61	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

Document Distribution

1 bcMetals
 103 - 1575 Beach Avenue
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 B.C. V6G 1Y5
 Canada
 Att: Ian Smith
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 DL 3D EM BT BL
 0 0 1 0 0
 Ph: (604)767-6048
 Fx: (604)608-3303
 Em: smithib@attglobal.net


2 bcMetals
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 Att: Ron Simpson
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 1 2 1 2 1
 DL 3D EM BT BL
 0 0 1 0 0
 Ph: (604)767-6048
 Fx: (604)608-3303
 Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No) Totals: 2=Copy 4=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C01840103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 311571

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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

Ship#2 **64 Samples**

61=Core 3=Pulp 1=Blk iPL 1=Std iPL [157116:31:51:30100103:005]

Out: Sep 27, 2003
 In : Sep 23, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
95082	C	1.51	1.59	1.49	95121	C	0.13	—	0.21		
95083	C	1.95	1.97	1.70	95122	C	0.74	—	1.18		
95084	C	1.12	1.26	1.02	95123	C	0.64	—	0.88		
95085	C	1.27	1.24	1.13	95124	C	0.42	—	0.68		
95086	C	2.88	3.18	2.00	95125	C	0.45	—	0.65		
95087	C	2.54	2.75	2.47	95126	C	0.30	—	0.43		
95088	C	3.16	2.88	2.42	95127	C	0.16	—	0.24		
95089	C	2.69	2.71	2.02	95128	C	0.15	—	0.28		
95090	C	1.19	1.29	1.02	95129	C	0.17	—	0.28		
95091	C	0.92	—	0.69	95130	C	0.30	—	0.21		
95092	C	2.30	2.17	1.84	95131	C	0.15	—	0.18		
95093	C	2.20	2.21	1.75	95132	C	0.17	—	0.26		
95094	C	1.89	1.97	1.64	95133	C	0.17	—	0.29		
95095	C	2.22	2.30	1.76	95134	C	0.44	—	0.71		
95096	C	2.49	2.32	2.30	95135	C	0.13	—	0.18		
95097	C	2.63	2.55	2.22	95136	C	0.06	—	0.08		
95098	C	2.68	2.69	2.15	95137	C	0.06	—	0.06		
95099	C	3.73	4.19	3.27	95138	C	0.03	—	0.03		
95100	Pulp P	0.55	—	0.61	95139	C	0.03	—	0.03		
95101	C	2.78	2.93	2.84	95140	Pulp P	0.57	—	0.59		
95102	C	2.82	2.78	2.28	95141	C	0.05	—	0.09		
95103	C	2.65	2.61	2.60	95142	C	0.29	—	1.74		
95104	C	2.15	2.26	2.19	95143	C	0.04	—	0.03		
95105	C	4.03	4.15	3.57	95144	C	0.06	—	0.13		
95106	C	3.38	3.13	2.73	95145	C	0.02	—	0.03		
95107	C	1.19	1.08	1.26	Blk iPL	Z	<0.01	—	<0.01		
95108	C	1.20	1.28	1.26	Std iPL	Z	0.33	—	—		
95109	C	0.91	—	1.09	RE 95082	R	1.56	—	1.47		
95110	C	0.89	—	1.13	RE 95101	R	2.50	—	2.85		
95111	C	0.86	—	0.88	RE 95121	R	0.13	—	0.22		
95112	C	1.53	1.48	1.10	RE 95140	Pulp R	0.56	—	0.59		
95113	C	2.18	2.08	1.66							
95114	C	0.74	—	0.95							
95115	C	1.18	1.23	1.20							
95116	C	1.66	1.55	1.43							
95117	C	1.69	1.62	1.20							
95118	C	0.82	—	0.74							
95119	C	0.90	—	1.23							
95120	Pulp P	0.77	—	0.94							

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 5511561

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 Email iplab@telus.net
 [156111:16:18:30100103:004]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: 1 PO#:
Comment:

81 Samples

Out: Sep 25, 2003 In: Sep 22, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	77	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is. no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis
B84100	5	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

Document Distribution

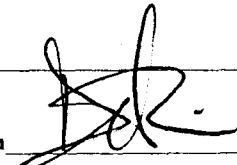
1 bcMetals	EN	RT	CC	IN	FX	##
103 - 1575 Beach Avenue	1	2	1	2	1	
Vancouver	DL	3D	EM	BT	BL	
B.C. V6G 1Y5	0	0	1	0	0	
Canada						
Att: Ian Smith						
						Ph: (604)767-6048
						Fx: (604)608-3303
						Em: smithib@attglobal.net

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
04	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 1=Copy 2=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C018401

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3311561

Canada 175, Ltd.
 Phone (604) 879-7878
 Fax (604) 879-7808
 Email iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project: Red Chris

81 Samples

Ship#1

77=Core 4=Pulp 1=Bik iPL 1=Std iPL

[156115:44:36:30100103:005]

Out: Sep 25, 2003
In : Sep 22, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Au g/mt	Cu %			
95001	C	0.01	—	—	<0.01	95040 Pulp	P	0.50	—	—	0.54	95079	C	0.84	—	—	0.86
95002	C	0.01	—	—	<0.01	95041	C	0.60	—	—	0.94	95080 Pulp	P	0.76	—	—	0.90
95003	C	0.01	—	—	<0.01	95042	C	0.73	—	—	1.03	95081	C	1.09	1.10	—	0.99
95004	C	0.01	—	—	<0.01	95043	C	0.51	—	—	0.75	BLK iPL	Z	<0.01	—	—	<0.01
95005	C	0.02	—	—	<0.01	95044	C	0.31	—	—	0.40	STD iPL	Z	0.34	—	—	—
95006	C	0.02	—	—	0.02	95045	C	0.21	—	—	0.28	RE 95001	R	0.01	—	—	<0.01
95007	C	0.02	—	—	0.01	95046	C	0.39	—	—	0.45	RE 95020 Pulp	R	0.76	—	—	0.90
95008	C	0.03	—	—	0.01	95047	C	0.38	—	—	0.49	RE 95040 Pulp	R	0.56	—	—	0.55
95009	C	0.02	—	—	<0.01	95048	C	0.75	—	—	0.97	RE 95059	R	0.34	—	—	0.47
95010	C	0.02	—	—	0.02	95049	C	0.33	—	—	0.44	RE 95079	R	0.98	—	—	0.86
95011	C	0.03	—	—	0.01	95050	C	0.58	—	—	0.73						
95012	C	0.03	—	—	0.02	95051	C	0.88	—	—	1.16						
95013	C	0.01	—	—	<0.01	95052	C	0.33	—	—	0.60						
95014	C	0.02	—	—	0.01	95053	C	0.73	—	—	1.23						
95015	C	0.02	—	—	0.01	95054	C	0.61	—	—	0.91						
95016	C	0.03	—	—	0.02	95055	C	0.50	—	—	0.55						
95017	C	0.03	—	—	0.02	95056	C	0.37	—	—	0.49						
95018	C	0.05	—	—	0.02	95057	C	0.60	—	—	0.79						
95019	C	0.04	—	—	0.02	95058	C	0.63	—	—	0.73						
95020 Pulp	P	0.78	—	—	0.90	95059	C	0.30	—	—	0.47						
95021	C	0.06	—	—	0.03	95060 Pulp	P	0.30	—	—	0.35						
95022	C	0.07	—	—	0.05	95061	C	0.51	—	—	0.66						
95023	C	0.07	—	—	0.04	95062	C	2.28	—	—	1.04						
95024	C	0.07	—	—	0.04	95063	C	0.37	—	—	0.55						
95025	C	0.06	—	—	0.04	95064	C	0.44	—	—	0.81						
95026	C	0.07	—	—	0.08	95065	C	0.83	—	—	0.76						
95027	C	0.09	—	—	0.08	95066	C	0.96	—	—	1.09						
95028	C	0.07	—	—	0.07	95067	C	0.99	—	—	1.06						
95029	C	0.06	—	—	0.07	95068	C	1.42	1.56	—	1.58						
95030	C	0.06	—	—	0.07	95069	C	1.76	1.86	—	1.92						
95031	C	0.04	—	—	0.07	95070	C	1.83	2.02	—	2.11						
95032	C	0.04	—	—	0.05	95071	C	1.31	1.46	—	1.61						
95033	C	0.06	—	—	0.09	95072	C	1.15	1.10	—	1.27						
95034	C	0.09	—	—	0.11	95073	C	2.21	2.35	—	2.09						
95035	C	0.06	—	—	0.07	95074	C	1.18	1.21	—	1.75						
95036	C	0.06	—	—	0.07	95075	C	1.18	2.16	1.58	1.16						
95037	C	0.06	—	—	0.09	95076	C	1.75	1.74	—	1.55						
95038	C	0.15	—	—	0.23	95077	C	2.02	1.88	—	1.56						
95039	C	0.23	—	—	0.34	95078	C	1.06	1.07	—	1.05						

Min Limit	0.01	0.07	0.01	0.01	0.01	0.07	0.01	0.01	0.01	0.01	0.07	0.01	0.01
Max Reported*	9999.00	9999.00	9999.00	100.00	9999.00	9999.00	9999.00	100.00	9999.00	9999.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	FA/AAS	AsyMuA	FA/AAS	FAGrav	FA/AAS	AsyMuA	FA/AAS	FAGrav	FA/AAS	AsyMuA	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Bik iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 11582

Vancouver
 Canada
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 [158216:19:23:30100103:003]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: 3 PO#:
Comment:

65 Samples Out: Sep 27, 2003 In: Sep 23, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

Document Distribution

1 bcMetals	EN	RT	CC	IN	FX	#	
103 - 1575 Beach Avenue	1	2	1	2	1		
Vancouver	DL	3D	EM	BT	BL		
B.C. V6G 1Y5	0	0	1	0	0		
Canada							
Att: Ian Smith							Ph: (604)767-6048
							Fx: (604)608-3303
							Em: smithib@attglobal.net

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C018401
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS

iPL 311582

INTERNATIONAL PLASMA LABORATORY LTD

Canada
Phone (604) 879 7878
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Email iplab@telus.net

Client : bcMetals
Project: Red Chris

Ship#3 **65 Samples**

62=Core 3=Pulp 1=Blk iPL 1=Std iPL [158216:19:23:30100103:003]

Out: Sep 27, 2003
In : Sep 23, 2003

Page 1 of 1

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
95146	C	0.04	—	0.07	95185	C	0.11	—	0.09					
95147	C	0.10	—	0.18	95186	C	0.09	—	0.09					
95148	C	0.04	—	0.06	95187	C	0.20	—	0.14					
95149	C	0.05	—	0.03	95188	C	0.09	—	0.09					
95150	C	0.01	—	<0.01	95189	C	0.07	—	0.10					
95151	C	0.01	—	<0.01	95190	C	0.06	—	0.08					
95152	C	0.01	—	<0.01	95191	C	0.06	—	0.07					
95153	C	0.01	—	<0.01	95192	C	0.08	—	0.09					
95154	C	0.01	—	<0.01	95193	C	0.08	—	0.10					
95155	C	0.05	—	<0.01	95194	C	0.09	—	0.12					
95156	C	0.01	—	<0.01	95195	C	0.07	—	0.11					
95157	C	0.01	—	<0.01	95196	C	0.15	—	0.20					
95158	C	0.01	—	<0.01	95197	C	0.11	—	0.14					
95159	C	0.02	—	<0.01	95198	C	0.13	—	0.15					
95160 Pulp	P	0.57	—	0.58	95199	C	0.13	—	0.15					
95161	C	0.02	—	<0.01	95200 Pulp	P	0.28	—	0.37					
95162	C	0.08	—	<0.01	95201	C	0.16	—	0.17					
95163	C	0.02	—	0.01	95202	C	0.14	—	0.19					
95164	C	0.02	—	0.01	95203	C	0.17	—	0.18					
95165	C	0.03	—	0.02	95204	C	0.29	—	0.26					
95166	C	0.05	—	0.01	95205	C	0.13	—	0.13					
95167	C	0.01	—	0.01	95206	C	0.21	—	0.18					
95168	C	0.03	—	0.02	95207	C	0.14	—	0.11					
95169	C	0.01	—	<0.01	95208	C	0.30	—	0.29					
95170	C	0.01	—	0.01	95209	C	0.35	—	0.33					
95171	C	0.04	—	0.02	Sample with no name ??	C	0.13	—	0.09					
95172	C	0.06	—	0.06	Blk iPL	Z	<0.01	—	<0.01					
95173	C	0.05	—	0.05	Std iPL	Z	0.34	—	—					
95174	C	0.06	—	0.05	RE 95146	R	0.07	—	0.07					
95175	C	0.07	—	0.06	RE 95165	R	0.02	—	0.02					
95176	C	0.05	—	0.07	RE 95185	R	0.11	—	0.09					
95177	C	0.12	—	0.11	RE 95204	R	0.26	—	0.25					
95178	C	0.07	—	0.05										
95179	C	0.12	—	0.09										
95180 Pulp	P	0.79	—	0.95										
95181	C	0.07	—	0.06										
95182	C	0.09	—	0.08										
95183	C	0.14	—	0.10										
95184	C	0.15	—	0.10										

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 311599

Canada
 Phone (604) 879-7879
 Fax (604) 879-7898
 Email iplab@telus.net
 [159915:29:36:30100103:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: 4 PO#:
 Comment:

79 Samples Out: Sep 29, 2003 In: Sep 25, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	76	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis
B84100	5	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

Document Distribution

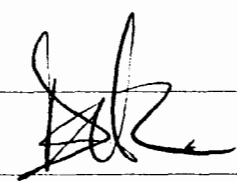
1 bcMetals	EN RT CC IN FX	##
103 - 1575 Beach Avenue	1 2 1 2 1	
Vancouver	DL 3D EM BT BL	
B.C. V6G 1Y5	0 0 1 0 0	
Canada		
Att: Ian Smith	Ph: (604) 767-6048	
	Fx: (604) 608-3303	
	Em: smithib@attglobe1.net	

Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 1=Copy 2=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C018401

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3311599

Canada 514 211-1111
 Phone (804) 879-7899
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INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project: Red Chris

79 Samples

Ship#4

76=Core 3=Pulp 1=Blk iPL 1=Std iPL

[159915:29:36:30100103:002]

Out: Sep 29, 2003
 In : Sep 25, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
95210	C	0.41	—	0.32	95250	C	1.11	1.39	0.40	97025	C	0.12	—	0.08
95211	C	0.48	—	0.33	95251	C	0.25	—	0.22	Blk iPL	Z	<0.01	—	<0.01
95212	C	0.39	—	0.32	95252	C	0.20	—	0.18	Std iPL	Z	0.33	—	—
95213	C	0.32	—	0.29	95253	C	0.31	—	0.29	RE 95210	R	0.38	—	0.32
95214	C	0.45	—	0.44	95254	C	0.25	—	0.24	RE 95230	R	0.22	—	0.27
95215	C	0.19	—	0.23	95255	C	0.30	—	0.35	RE 95250	R	1.17	—	0.39
95216	C	0.24	—	0.29	95256	C	0.23	—	0.20	RE 97005	R	0.11	—	0.11
95217	C	0.23	—	0.25	95257	C	0.17	—	0.18	RE 97025	R	0.15	—	0.08
95218	C	0.19	—	0.19	95258	C	0.36	—	0.31					
95219	C	0.21	—	0.28	95259	C	0.19	—	0.20					
95221	C	0.24	—	0.27	95260 Pulp	P	0.30	—	0.34					
95222	C	0.25	—	0.26	95261	C	0.27	—	0.28					
95223	C	0.24	—	0.34	95262	C	0.33	—	0.32					
95224	C	0.20	—	0.27	95263	C	0.22	—	0.23					
95225	C	0.25	—	0.28	95264	C	0.18	—	0.27					
95226	C	0.15	—	0.20	97001	C	0.09	—	0.10					
95227	C	0.24	—	0.29	97002	C	0.08	—	0.10					
95228	C	0.22	—	0.33	97003	C	0.11	—	0.11					
95229	C	0.20	—	0.28	97004	C	0.15	—	0.17					
95230	C	0.24	—	0.28	97005	C	0.12	—	0.12					
95231	C	0.36	—	0.36	97006	C	0.15	—	0.11					
95232	C	0.24	—	0.27	97007	C	0.13	—	0.15					
95233	C	0.30	—	0.30	97008	C	0.11	—	0.12					
95234	C	0.05	—	0.06	97009	C	0.09	—	0.09					
95235	C	0.19	—	0.22	97010	C	0.04	—	0.06					
95236	C	0.22	—	0.26	97011	C	0.11	—	0.21					
95237	C	0.25	—	0.27	97012	C	0.20	—	0.42					
95238	C	0.21	—	0.24	97013	C	0.19	—	0.38					
95239	C	0.19	—	0.19	97014	C	0.26	—	0.37					
95240 Pulp	P	0.30	—	0.34	97015	C	0.08	—	0.10					
95241	C	0.26	—	0.27	97016	C	0.11	—	0.11					
95242	C	0.27	—	0.28	97017	C	0.11	—	0.07					
95243	C	0.42	—	0.37	97018	C	0.10	—	0.08					
95244	C	0.04	—	<0.01	97019	C	0.13	—	0.10					
95245	C	0.37	—	0.35	97020 Pulp	P	0.28	—	0.34					
95246	C	0.33	—	0.28	97021	C	0.08	—	0.06					
95247	C	0.32	—	0.31	97022	C	0.09	—	0.07					
95248	C	0.53	—	0.45	97023	C	0.12	—	0.07					
95249	C	2.04	2.54	0.87	97024	C	0.09	—	0.07					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 311605

Canada V.C. 1E1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [160512:24:02:30100203:001]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
Comment:

70 Samples Out: Oct 02, 2003 In: Sep 26, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	66	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

Document Distribution

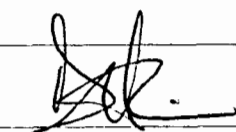
##	Code	Method	Units	Description	Element	Limit Low	Limit High
1	bcMetals	EN RT CC IN FX					
	103 - 1575 Beach Avenue	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6G 1Y5	0 0 1 0 0					
	Canada						
	Att: Ian Smith	Ph: (604) 767-6048					
		Fx: (604) 608-3303					
		Em: smithib@attglobe1.net					
2	bcMetals	EN RT CC IN FX					
	103 - 1575 Beach Avenue	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6G 1Y5	0 0 1 0 0					
	Canada						
	Att: Ron Simpson	Ph: (604) 767-6048					
		Fx: (604) 608-3303					
		Em: rgs@uniserve.com					

01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 4=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C01840103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 011605

Canada: 61
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email: iplab@telus.net
 Page 1 of 1

INTERNATIONAL LABORATORIES

Client : bcMetals
 Project : Red Chris

70 Samples

Ship# 66=Core 4=PuIp 4=Repeat 1=Blk iPL [160512:47:20:30100203:002]

Out: Oct 02, 2003
 In : Sep 26, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
97133	C	0.06	—	0.02	97172	C	0.18	—	0.13		
97134	C	0.05	—	0.03	97173	C	0.35	—	0.12		
97135	C	0.06	—	0.03	97174	C	0.21	—	0.21		
97136	C	0.07	—	0.04	97175	C	0.18	—	0.19		
97137	C	0.06	—	0.04	97176	C	0.12	—	0.16		
97138	C	0.14	—	0.09	97177	C	0.12	—	0.17		
97139	C	0.05	—	0.03	97178	C	0.19	—	0.16		
97140	PuIp	0.57	—	0.52	97179	C	0.22	—	0.19		
97141	C	0.05	—	0.02	97180	PuIp	0.81	—	0.84		
97142	C	0.07	—	0.04	97181	C	0.12	—	0.12		
97143	C	0.05	—	0.04	97182	C	0.09	—	0.11		
97144	C	0.08	—	0.04	97183	C	0.13	—	0.13		
97145	C	0.08	—	0.04	97184	C	0.18	—	0.20		
97146	C	0.08	—	0.05	97185	C	0.16	—	0.17		
97147	C	0.08	—	0.06	97186	C	0.15	—	0.15		
97148	C	0.06	—	0.05	97187	C	0.16	—	0.18		
97149	C	0.10	—	0.05	97188	C	0.28	—	0.27		
97150	C	0.10	—	0.06	97189	C	0.28	—	0.32		
97151	C	0.08	—	0.05	97190	C	0.22	—	0.26		
97152	C	0.08	—	0.06	97191	C	0.15	—	0.16		
97153	C	0.09	—	0.05	97192	C	0.06	—	0.08		
97154	C	0.10	—	0.07	97193	C	0.09	—	0.11		
97155	C	0.06	—	0.04	97194	C	0.05	—	0.10		
97156	C	0.06	—	0.05	97195	C	0.19	—	0.29		
97157	C	0.04	—	0.03	97196	C	0.66	—	0.80		
97158	C	0.06	—	0.05	97197	C	0.41	—	0.57		
97159	C	0.06	—	0.05	97198	C	0.25	—	0.51		
97160	PuIp	0.27	—	0.34	97199	C	0.19	—	0.36		
97161	C	0.08	—	0.06	97200	PuIp	0.55	—	0.53		
97162	C	0.10	—	0.08	97201	C	0.19	—	0.35		
97163	C	0.13	—	0.08	97202	C	0.18	—	0.37		
97164	C	0.07	—	0.06	RE 97133	R	0.06	—	0.02		
97165	C	0.07	—	0.07	RE 97152	R	0.10	—	0.06		
97166	C	0.08	—	0.11	RE 97172	R	0.18	—	0.14		
97167	C	0.11	—	0.13	RE 97191	R	0.14	—	0.15		
97168	C	0.12	—	0.11	Blank iPL - N/C	Z	<0.01	—	<0.01		
97169	C	0.12	—	0.10	FA_StdC	Z	0.31	—	—		
97170	C	0.16	—	0.15	FA_StdC REF		0.33	0.33	—		
97171	C	0.12	—	0.12							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=PuIp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS

iPL 311608

Canada V6G 3E1
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[160815:29:52:30100103:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

107 Samples

Out: Oct 01, 2003 In: Sep 26, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	102	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	5	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	6	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

Document Distribution

1 bcMetals
103 - 1575 Beach Avenue
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Canada
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2 bcMetals
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B.C. V6G 1Y5
Canada
Att: Ron Simpson
Ph: (604)767-6048
Fx: (604)608-3303
Em: rgs@uniserve.com

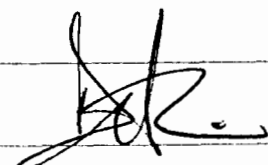
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 4=Invoice 0=3 1/2 Disk

DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C01840103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 11608

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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

107 Samples

Ship#

102=Core 5=Pulp 6=Repeat 1=Blk iPL

[160815:29:52:30100103:002]

Out: Oct 01, 2003
 In : Sep 26, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
97026	C	0.09	—	0.05	97065	C	0.24	—	0.16	97104	C	0.03	—	0.03
97027	C	0.14	—	0.13	97066	C	0.16	—	0.17	97105	C	0.04	—	0.03
97028	C	0.11	—	0.10	97067	C	0.16	—	0.21	97106	C	0.03	—	0.03
97029	C	0.12	—	0.09	97068	C	0.19	—	0.21	97107	C	0.02	—	0.02
97030	C	0.16	—	0.10	97069	C	0.17	—	0.19	97108	C	0.03	—	0.02
97031	C	0.11	—	0.07	97070	C	0.21	—	0.24	97109	C	0.08	—	0.04
97032	C	0.12	—	0.10	97071	C	0.17	—	0.23	97110	C	0.07	—	0.03
97033	C	0.15	—	0.11	97072	C	0.23	—	0.30	97111	C	0.08	—	0.03
97034	C	0.20	—	0.13	97073	C	0.27	—	0.38	97112	C	0.07	—	0.03
97035	C	0.08	—	0.09	97074	C	0.47	—	0.40	97113	C	0.08	—	0.05
97036	C	0.10	—	0.11	97075	C	0.44	—	0.47	97114	C	0.10	—	0.05
97037	C	0.15	—	0.19	97076	C	0.58	—	0.36	97115	C	0.06	—	0.02
97038	C	0.10	—	0.09	97077	C	0.31	—	0.23	97116	C	0.08	—	0.06
97039	C	0.12	—	0.13	97078	C	0.33	—	0.30	97117	C	0.12	—	0.08
97040 Pulp	P	0.56	—	0.51	97079	C	0.66	—	0.53	97118	C	0.18	—	0.07
97041	C	0.13	—	0.13	97080 Pulp	P	0.28	—	0.35	97119	C	0.14	—	0.06
97042	C	0.24	—	0.28	97081	C	0.55	—	0.50	97120 Pulp	P	0.77	—	0.85
97043	C	0.10	—	0.10	97082	C	0.06	—	0.47	97121	C	0.17	—	0.15
97044	C	0.22	—	0.17	97083	C	0.63	—	0.51	97122	C	0.24	—	0.39
97045	C	0.23	—	0.22	97084	C	0.52	—	0.48	97123	C	0.14	—	0.09
97046	C	0.16	—	0.16	97085	C	0.56	—	0.49	97124	C	0.17	—	0.12
97047	C	0.16	—	0.18	97086	C	0.33	—	0.26	97125	C	0.20	—	0.09
97048	C	0.12	—	0.11	97087	C	0.30	—	0.35	97126	C	0.17	—	0.15
97049	C	0.26	—	0.24	97088	C	0.33	—	0.24	97127	C	0.14	—	0.11
97050	C	0.18	—	0.12	97089	C	0.18	—	0.14	97128	C	0.13	—	0.11
97051	C	0.19	—	0.13	97090	C	0.37	—	0.25	97129	C	0.14	—	0.10
97052	C	0.14	—	0.10	97091	C	0.38	—	0.33	97130	C	0.07	—	0.05
97053	C	0.16	—	0.19	97092	C	0.19	—	0.16	97131	C	0.11	—	0.09
97054	C	0.19	—	0.24	97093	C	0.35	—	0.27	97132	C	0.06	—	0.05
97055	C	0.11	—	0.17	97094	C	0.15	—	0.12	RE 97026	R	0.06	—	0.05
97056	C	0.21	—	0.45	97095	C	0.27	—	0.20	RE 97045	R	0.23	—	0.21
97057	C	0.22	—	0.40	97096	C	0.18	—	0.16	RE 97065	R	0.29	—	0.15
97058	C	0.19	—	0.26	97097	C	0.19	—	0.11	RE 97084	R	0.60	—	0.46
97059	C	0.17	—	0.21	97098	C	0.23	—	0.19	RE 97104	R	0.03	—	0.03
97060 Pulp	P	0.60	—	0.85	97099	C	0.13	—	0.20	RE 97123	R	0.13	—	0.09
97061	C	0.14	—	0.14	97100 Pulp	P	0.56	—	0.54	Blank iPL	Z	<0.01	—	<0.01
97062	C	0.10	—	0.10	97101	C	0.05	—	0.06	FA StdC	Z	0.34	—	—
97063	C	0.19	—	0.25	97102	C	0.05	—	0.06	FA_StdC REF		0.33	0.33	—
97064	C	0.17	—	0.19	97103	C	0.05	—	0.06					

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS
IF J311611

Company: IEL
 Phone: (604) 879-7878
 Fax: (604) 879-7898
 Email: iplab@telus.net
 [161114:55:52:30100503:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

69 Samples

Out: Oct 05, 2003 In: Sep 29, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	66	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AQR) / Every 20th sample send to ALS

Document Distribution

1 bcMetals
 103 - 1575 Beach Avenue
 Vancouver
 B.C. V6G 1Y5
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 Em: smithib@attglobal.net

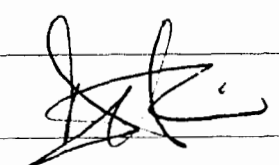
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 Vancouver
 B.C. V6G 1Y5
 Canada
 Att: Ron Simpson
 Ph: (604)767-6048
 Fx: (604)608-3303
 Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C01840103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 5311611

INTERNATIONAL PLASMA LABORATORY LTD

Canada 514 411
 Phone (504) 979-7878
 Fax (504) 979-7898
 Email iplab@telus.net

Client : bcMetals
 Project: Red Chris

69 Samples

Ship#

66=Core

3=Pulp

1=Blk iPL

4=Repeat

[161117:36:18:30100603:002]

Out: Oct 05, 2003

In : Sep 29, 2003

Page 1 of 1

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
95265	C	0.30	—	0.44	95304	C	0.01	—	0.04					
95266	C	0.17	—	0.14	95305	C	0.04	—	0.04					
95267	C	0.24	—	0.22	95306	C	0.03	—	0.01					
95268	C	0.17	—	0.19	95307	C	0.03	—	0.01					
95269	C	0.32	—	0.26	95308	C	0.04	—	0.01					
95270	C	0.22	—	0.21	95309	C	0.04	—	0.01					
95271	C	0.22	—	0.21	95310	C	0.03	—	0.01					
95272	C	0.23	—	0.39	95311	C	0.03	—	0.02					
95273	C	0.32	—	0.38	95312	C	0.04	—	0.01					
95274	C	0.87	—	1.06	95313	C	0.07	—	0.05					
95275	C	0.62	—	0.54	95314	C	0.06	—	0.03					
95276	C	0.33	—	0.37	95315	C	0.07	—	0.04					
95277	C	0.21	—	0.26	95316	C	0.03	—	0.02					
95278	C	0.30	—	0.29	95317	C	0.04	—	0.03					
95279	C	0.29	—	0.36	95318	C	0.04	—	0.02					
95280 Pulp	P	0.53	—	0.54	95319	C	0.04	—	0.02					
95281	C	0.30	—	0.32	95320 Pulp	P	0.55	—	0.53					
95282	C	0.80	—	0.69	95321	C	0.05	—	0.03					
95283	C	1.56	1.28	1.36	95322	C	0.04	—	0.03					
95284	C	1.61	1.37	1.18	95323	C	0.06	—	0.05					
95285	C	1.91	1.71	1.50	95324	C	0.06	—	0.06					
95286	C	1.35	1.28	1.02	95325	C	0.05	—	0.05					
95287	C	1.16	1.22	1.18	95326	C	0.05	—	0.05					
95288	C	1.29	1.22	1.13	95327	C	0.05	—	0.06					
95289	C	1.68	1.65	1.79	95328	C	0.06	—	0.05					
95290	C	1.14	0.89	0.77	95329	C	0.07	—	0.08					
95291	C	1.44	1.61	1.36	95330	C	0.07	—	0.09					
95292	C	2.41	2.59	2.08	95331	C	0.06	—	0.07					
95293	C	2.11	2.26	2.19	95332	C	0.12	—	0.16					
95294	C	0.02	—	0.02	95333	C	0.14	—	0.23					
95295	C	0.02	—	0.02	Blank iPL	Z	<0.01	—	<0.01					
95296	C	0.02	—	0.02	RE 95265	R	0.29	—	0.45					
95297	C	0.03	—	0.03	RE 95284	R	1.44	—	1.16					
95298	C	0.05	—	0.03	RE 95304	R	0.01	—	0.04					
95299	C	0.02	—	0.02	RE 95323	R	0.06	—	0.05					
95300 Pulp	P	0.81	—	0.88	FA_StdC	Z	0.34	—	—					
95301	C	0.02	—	0.04	FA_StdC REF		0.33	0.33	—					
95302	C	0.02	—	0.08										
95303	C	0.03	—	0.04										

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp Z=Blk iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 03I1612

Phone (001) 979 7979
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 Email: iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

84 Samples

81=Core 2=Pulp 1=Blk iPL 1=Std iPL [161214:34:11:30100303:002]

Out: Oct 03, 2003
 In : Sep 29, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
95334 C	0.39	—	0.70	95374 C	0.27	—	0.27	95413 C	0.37	—	0.47
95335 C	1.42	1.40	2.26	95375 C	0.42	—	0.31	95414 C	0.49	—	0.54
95336 C	1.18	1.44	2.46	95376 C	0.40	—	0.31	95415 C	0.44	—	0.62
95337 C	1.17	1.20	1.67	95377 C	0.37	—	0.34	95416 C	0.45	—	0.50
95338 C	0.36	—	0.53	95378 C	0.32	—	0.35	95417 C	0.55	—	0.62
95339 C	0.25	—	0.38	95379 C	0.36	—	0.32	95418 C	0.55	—	0.59
95341 C	0.14	—	0.16	95380 Pulp P	0.75	—	0.90	Blank Z	<0.01	—	<0.01
95342 C	0.83	—	0.87	95381 C	0.07	—	0.05	Std C Z	0.35	—	—
95343 C	0.52	—	0.85	95382 C	0.35	—	0.29	RE 95334 R	0.35	—	0.69
95344 C	0.39	—	0.88	95383 C	0.39	—	0.33	RE 95354 R	0.33	—	0.38
95345 C	0.29	—	0.39	95384 C	0.48	—	0.52	RE 95374 R	0.31	—	0.28
95346 C	0.40	—	0.52	95385 C	0.45	—	0.54	RE 95393 R	0.21	—	0.30
95347 C	0.24	—	0.33	95386 C	0.31	—	0.33	RE 95413 R	0.37	—	0.47
95348 C	0.12	—	0.21	95387 C	0.93	—	0.92				
95349 C	0.28	—	0.37	95388 C	0.39	—	0.70				
95350 C	0.36	—	0.64	95389 C	0.29	—	0.36				
95351 C	0.18	—	0.22	95390 C	0.30	—	0.30				
95352 C	0.34	—	0.40	95391 C	2.35	2.34	0.50				
95353 C	0.32	—	0.40	95392 C	0.35	—	0.37				
95354 C	0.31	—	0.39	95393 C	0.21	—	0.30				
95355 C	0.29	—	0.38	95394 C	0.55	—	0.35				
95356 C	0.26	—	0.31	95395 C	0.33	—	0.31				
95357 C	0.34	—	0.34	95396 C	0.20	—	0.22				
95358 C	0.27	—	0.26	95397 C	0.38	—	0.46				
95359 C	0.40	—	0.34	95398 C	0.45	—	0.53				
95360 Pulp	0.53	—	0.55	95399 C	0.49	—	0.45				
95361 C	0.54	—	0.40	95400 Pulp P	0.30	—	0.33				
95362 C	0.24	—	0.23	95401 C	0.38	—	0.50				
95363 C	0.25	—	0.23	95402 C	0.30	—	0.47				
95364 C	0.31	—	0.27	95403 C	0.37	—	0.48				
95365 C	0.55	—	0.51	95404 C	0.40	—	0.78				
95366 C	0.82	—	0.39	95405 C	0.32	—	0.51				
95367 C	0.45	—	0.64	95406 C	0.32	—	0.49				
95368 C	0.34	—	0.39	95407 C	0.51	—	0.49				
95369 C	0.30	—	0.38	95408 C	0.33	—	0.59				
95370 C	0.54	—	0.45	95409 C	0.35	—	0.54				
95371 C	0.43	—	0.45	95410 C	0.31	—	0.37				
95372 C	0.28	—	0.31	95411 C	0.52	—	0.67				
95373 C	0.48	—	0.53	95412 C	0.45	—	0.77				

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 311613

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 [161312:48:56:30100603:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

75 Samples

Out: Oct 06, 2003 In: Sep 29, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	71	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

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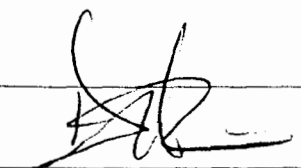
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C01840103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

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INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

75 Samples
 Ship# 71=Core 4=Pulp 1=Blk iPL 1=Std iPL [161312:48:56:30100603:001]

Out: Oct 06, 2003
 In : Sep 29, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
95419 C	0.11	—	0.09	95458 C	0.10	—	0.09	RE 95438 R	0.09	—	0.03
95420 Pulp P	0.27	—	0.33	95459 C	0.14	—	0.12	RE 95458 R	0.09	—	0.09
95421 C	0.62	—	0.74	95460 Pulp P	0.83	—	0.94	RE 95477 R	0.14	—	0.35
95422 C	0.60	—	0.65	95461 C	0.18	—	0.15				
95423 C	0.53	—	0.52	95462 C	0.07	—	0.07				
95424 C	1.08	1.10	1.32	95463 C	0.07	—	0.09				
95425 C	0.65	—	0.73	95464 C	0.14	—	0.12				
95426 C	0.44	—	0.57	95465 C	0.09	—	0.09				
95427 C	1.06	1.16	1.29	95466 C	0.75	—	0.83				
95428 C	0.90	—	1.25	95467 C	0.08	—	0.09				
95429 C	0.48	—	0.58	95468 C	0.14	—	0.12				
95430 C	0.40	—	0.48	95469 C	0.12	—	0.14				
95431 C	0.68	—	0.79	95470 C	0.12	—	0.13				
95432 C	1.06	1.04	1.34	95471 C	0.24	—	0.22				
95433 C	0.61	—	0.64	95472 C	0.14	—	0.14				
95434 C	0.11	—	0.11	95473 C	0.12	—	0.15				
95435 C	0.10	—	0.08	95474 C	0.42	—	0.47				
95436 C	0.09	—	0.02	95475 C	0.14	—	0.22				
95437 C	0.19	—	0.10	95476 C	0.12	—	0.16				
95438 C	0.10	—	0.03	95477 C	0.18	—	0.36				
95439 C	0.16	—	0.08	95478 C	0.17	—	0.29				
95440 Pulp P	0.54	—	0.59	95479 C	0.26	—	0.40				
95441 C	0.13	—	0.05	95480 Pulp P	0.57	—	0.59				
95442 C	0.08	—	0.04	95481 C	0.16	—	0.29				
95443 C	0.38	—	0.12	95482 C	0.20	—	0.42				
95444 C	0.25	—	0.09	95483 C	0.34	—	0.61				
95445 C	0.09	—	0.04	95484 C	0.26	—	0.44				
95446 C	0.18	—	0.07	95485 C	0.33	—	0.37				
95447 C	0.23	—	0.09	95486 C	0.97	1.09	1.58				
95448 C	0.27	—	0.10	95487 C	0.99	—	1.35				
95449 C	0.24	—	0.11	95488 C	0.98	—	1.25				
95450 C	0.20	—	0.08	95489 C	0.99	—	1.19				
95451 C	0.16	—	0.08	95490 C	0.71	—	1.14				
95452 C	0.16	—	0.09	95491 C	0.56	—	0.73				
95453 C	0.21	—	0.16	95492 C	0.54	—	0.55				
95454 C	0.12	—	0.09	95493 C	0.34	—	0.28				
95455 C	0.01	—	<0.01	Blank Z	<0.01	—	<0.01				
95456 C	0.01	—	<0.01	StdC Z	0.32	—	—				
95457 C	0.09	—	0.09	RE 95419 R	0.10	—	0.10				

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS
iPL 311621

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[162112:51:57:30100603:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals
Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

92 Samples Out: Oct 06, 2003 In: Sep 29, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	88	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis
B84100	5	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AQR) / Every 20th sample send to ALS

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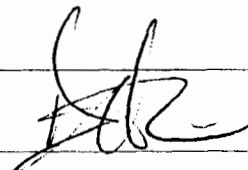
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

92 Samples
 Ship# 88=Core 4=PuIp 1=Blk iPL 1=Std iPL [162112:51:57:30100603:001]

Out: Oct 06, 2003
 In : Sep 29, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
95494	C	0.30	—	0.27	95533	C	0.26	—	0.24	95572	C	0.28	—	0.37
95495	C	0.49	—	0.60	95534	C	0.36	—	0.39	95573	C	0.24	—	0.32
95496	C	0.32	—	0.38	95535	C	0.65	—	0.80	95574	C	0.27	—	0.39
95497	C	0.43	—	0.43	95536	C	0.96	—	1.10	95575	C	0.40	—	0.41
95498	C	0.31	—	0.28	95537	C	1.86	1.78	0.39	95576	C	0.25	—	0.45
95499	C	0.47	—	0.35	95538	C	0.96	—	0.81	95577	C	0.43	—	0.87
95500	PuIp	0.30	—	0.36	95539	C	1.63	1.75	0.15	95578	C	0.40	—	0.87
95501	C	0.32	—	0.26	95540	PuIp	0.57	—	0.58	95579	C	0.66	—	0.74
95502	C	0.31	—	0.38	95541	C	1.45	1.49	0.80	95581	C	1.09	1.03	1.11
95503	C	0.63	—	0.54	95542	C	0.66	—	0.59	95582	C	0.28	—	0.32
95504	C	0.47	—	0.53	95543	C	0.32	—	0.27	95583	C	0.10	—	0.22
95505	C	0.41	—	0.45	95544	C	0.63	—	0.23	95584	C	0.08	—	0.17
95506	C	0.43	—	0.51	95545	C	0.77	—	0.69	95585	C	0.16	—	0.26
95507	C	0.37	—	0.57	95546	C	0.48	—	0.50	95586	C	0.19	—	0.50
95508	C	0.61	—	0.88	95547	C	0.32	—	0.28	Blk iPL	Z	<0.01	—	<0.01
95509	C	0.54	—	0.74	95548	C	0.40	—	0.33	Std iPL	Z	0.34	—	—
95510	C	0.55	—	0.60	95549	C	0.31	—	0.31	RE 95494	R	0.28	—	0.27
95511	C	0.40	—	0.58	95550	C	0.34	—	0.39	RE 95513	R	0.53	—	0.68
95512	C	0.42	—	0.47	95551	C	0.35	—	0.40	RE 95533	R	0.26	—	0.25
95513	C	0.61	—	0.65	95552	C	0.30	—	0.29	RE 95552	R	0.29	—	0.29
95514	C	0.54	—	0.46	95553	C	0.27	—	0.24	RE 95572	R	0.32	—	0.38
95515	C	0.77	—	0.92	95554	C	0.33	—	0.32					
95516	C	0.99	—	0.85	95555	C	0.42	—	0.58					
95517	C	0.16	—	0.16	95556	C	0.37	—	0.43					
95518	C	0.24	—	0.19	95557	C	0.32	—	0.30					
95519	C	0.22	—	0.19	95558	C	0.37	—	0.44					
95520	PuIp	0.80	—	0.96	95559	C	0.29	—	0.31					
95521	C	0.13	—	0.12	95560	PuIp	0.80	—	0.96					
95522	C	0.24	—	0.23	95561	C	0.27	—	0.36					
95523	C	0.29	—	0.26	95562	C	0.30	—	0.59					
95524	C	0.23	—	0.29	95563	C	0.77	—	0.71					
95525	C	0.36	—	0.39	95564	C	0.49	—	0.62					
95526	C	0.54	—	0.45	95565	C	0.39	—	0.53					
95527	C	0.21	—	0.21	95566	C	0.29	—	0.45					
95528	C	0.32	—	0.29	95567	C	0.16	—	0.15					
95529	C	0.50	—	0.47	95568	C	0.21	—	0.25					
95530	C	0.27	—	0.22	95569	C	0.36	—	0.50					
95531	C	0.37	—	0.37	95570	C	0.39	—	0.55					
95532	C	0.30	—	0.38	95571	C	0.47	—	0.43					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=PuIp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 311627

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 [162716:57:36:30100703:002]

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

98 Samples

Out: Oct 05, 2003 In: Sep 30, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	93	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	5	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	6	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

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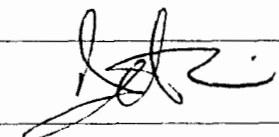
##	Code	Method	Units	Description	Element	Limit Low	Limit High
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02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 311627

Date: 10/05/2003
 Time: 09:19:00
 Fax: 603-870-7200
 Email: plb@plb.net

INTERNATIONAL STANDARDIZATION

Client: bcMetals
Project: Red Chris

98 Samples

Ship#

93=Core 5=Pulp 1=Blk iPL 6=Repeat

[162716:57:36:30100703:002]

Out: Oct 05, 2003
In: Sep 30, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
97203	C	0.34	—	0.84	97242	C	0.46	—	0.48	97281	C	0.06	—	0.13
97204	C	0.15	—	0.33	97243	C	0.47	—	0.56	97282	C	0.09	—	0.16
97205	C	0.94	—	1.36	97244	C	0.57	—	0.79	97283	C	0.04	—	0.11
97206	C	1.21	1.24	1.31	97245	C	0.46	—	0.64	97284	C	0.03	—	0.08
97207	C	0.80	—	1.21	97246	C	0.55	—	0.52	97285	C	0.04	—	0.09
97208	C	1.92	1.79	1.75	97247	C	0.55	—	0.50	97286	C	0.05	—	0.15
97209	C	2.65	2.23	2.10	97248	C	0.46	—	0.48	97287	C	0.05	—	0.15
97210	C	2.29	2.24	1.60	97249	C	0.41	—	0.42	97288	C	0.09	—	0.22
97211	C	2.75	2.46	1.90	97250	C	0.99	—	1.14	97289	C	0.15	—	0.19
97212	C	3.16	2.65	1.90	97251	C	4.29	3.74	1.89	97290	C	0.65	—	0.65
97213	C	4.34	3.81	3.10	97252	C	0.40	—	0.48	97291	C	0.31	—	0.69
97214	C	2.98	2.64	2.24	97253	C	0.38	—	0.42	97292	C	0.25	—	0.46
97215	C	3.21	3.17	2.36	97254	C	0.46	—	0.57	97293	C	1.37	1.47	2.02
97216	C	3.67	3.42	2.75	97255	C	0.25	—	0.30	97294	C	0.75	—	1.43
97217	C	2.08	1.82	1.45	97256	C	0.32	—	0.33	97295	C	1.56	1.61	2.36
97218	C	0.63	—	0.72	97257	C	0.23	—	0.27	97296	C	2.82	2.35	2.90
97219	C	0.74	—	0.68	97258	C	0.18	—	0.21	97297	C	2.20	2.00	2.40
97220 Pulp	P	0.29	—	0.36	97259	C	0.16	—	0.16	97298	C	0.41	—	0.55
97221	C	0.95	—	0.84	97260 Pulp	P	0.58	—	0.57	97299	C	0.36	—	0.60
97222	C	0.74	—	0.72	97261	C	0.30	—	0.31	97300 Pulp	P	0.69	—	0.89
97223	C	0.62	—	0.84	97262	C	0.20	—	0.20	Blank iPL	Z	<0.01	—	<0.01
97224	C	0.98	—	1.12	97263	C	0.14	—	0.13	RE 97203	R	0.46	—	0.84
97225	C	0.39	—	0.40	97264	C	0.21	—	0.23	RE 97222	R	0.87	—	0.72
97226	C	0.30	—	0.32	97265	C	0.20	—	0.19	RE 97242	R	0.48	—	0.47
97227	C	0.39	—	0.43	97266	C	0.10	—	0.10	RE 97261	R	0.29	—	0.32
97228	C	0.38	—	0.38	97267	C	0.28	—	0.29	RE 97281	R	0.07	—	0.14
97229	C	0.37	—	0.41	97268	C	0.28	—	0.34	RE 97300 Pulp	R	0.76	—	0.90
97230	C	0.46	—	0.50	97269	C	0.52	—	0.43	FA StdC	Z	0.36	—	—
97231	C	0.46	—	0.49	97270	C	0.35	—	0.39	FA StdC REF	Z	0.33	0.33	—
97232	C	0.40	—	0.40	97271	C	0.26	—	0.29					
97233	C	0.47	—	0.64	97272	C	0.33	—	0.35					
97234	C	0.47	—	0.40	97273	C	0.20	—	0.21					
97235	C	0.29	—	0.32	97274	C	0.57	—	0.17					
97236	C	0.32	—	0.32	97275	C	0.40	—	0.42					
97237	C	0.60	—	0.76	97276	C	0.10	—	0.34					
97238	C	0.40	—	0.47	97277	C	0.08	—	0.23					
97239	C	0.51	—	0.52	97278	C	0.09	—	0.27					
97240 Pulp	P	0.74	—	0.92	97279	C	0.08	—	0.24					
97241	C	0.96	—	0.94	97280 Pulp	P	0.30	—	0.35					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 33J1639

(604) 767-6048
 (604) 608-3303
 Fax: (604) 608-3303
 Email: iplab@atglobe.net
 [163914:52:05:30100703:001]

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
Comment:

65 Samples Out: Oct 07, 2003 In: Oct 02, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

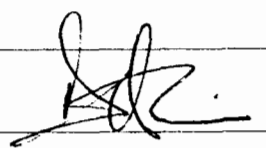
Document Distribution

##	Code	Method	Units	Description	Element	Limit Low	Limit High
1	bcMetals	EN RT CC IN FX					
	103 - 1575 Beach Avenue	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6G 1Y5	0 0 1 0 0					
	Canada						
	Att: Ian Smith	Ph: (604) 767-6048					
		Fx: (604) 608-3303					
		Em: smithib@atglobe.net					
2	bcMetals	EN RT CC IN FX					
	103 - 1575 Beach Avenue	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6G 1Y5	0 0 1 0 0					
	Canada						
	Att: Ron Simpson	Ph: (604) 767-6048					
		Fx: (604) 608-3303					
		Em: rgs@uniserve.com					

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 4=Invoice 0=3/4 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C01840103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3J1639

Date: 10/07/2003
 Time: 06:00:00
 File: 163917061830100703003
 Email: ipstat@metals.net
 Page 1 of 1

Client : bcMetals
 Project: Red Chris

65 Samples

Ship#

62=Core

3=Pulp

4=Repeat

I=Blk iPL

[163917:06:18:30100703:003]

Out: Oct 07, 2003

In : Oct 02, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
97301	C	0.53	—	0.78	97340 Pulp	P	0.28	—	0.34			
97302	C	0.86	—	1.14	97341	C	0.25	—	0.36			
97303	C	1.03	1.00	1.30	97342	C	0.30	—	0.41			
97304	C	1.29	1.23	1.39	97343	C	0.40	—	0.59			
97305	C	1.17	1.18	1.60	97344	C	0.23	—	0.34			
97306	C	0.18	—	0.33	97345	C	0.31	—	0.42			
97307	C	0.15	—	0.32	97346	C	0.27	—	0.40			
97308	C	0.13	—	0.24	97347	C	0.32	—	0.45			
97309	C	0.11	—	0.22	97348	C	0.40	—	0.58			
97310	C	0.14	—	0.27	97349	C	0.30	—	0.41			
97311	C	0.14	—	0.20	97350	C	0.61	—	0.75			
97312	C	0.12	—	0.21	97351	C	0.86	—	1.06			
97313	C	0.10	—	0.16	97352	C	0.78	—	0.93			
97314	C	0.16	—	0.30	97353	C	0.64	—	0.93			
97315	C	0.33	—	0.42	97354	C	0.48	—	0.66			
97316	C	0.18	—	0.29	97355	C	1.09	1.22	1.27			
97317	C	0.23	—	0.33	97356	C	0.97	—	1.16			
97318	C	0.17	—	0.29	97357	C	0.88	—	1.10			
97319	C	0.31	—	0.45	97358	C	0.87	—	1.17			
97320 Pulp	P	0.51	—	0.53	97359	C	0.82	—	1.12			
97321	C	0.29	—	0.43	97360 Pulp	P	0.60	—	0.87			
97322	C	0.32	—	0.45	97361	C	0.64	—	0.84			
97323	C	0.59	—	0.58	97362	C	0.87	—	1.10			
97324	C	0.19	—	0.41	97363	C	0.01	—	0.02			
97325	C	0.16	—	0.26	97364	C	0.95	—	1.24			
97326	C	0.26	—	0.37	97365	C	0.46	—	0.58			
97327	C	0.25	—	0.37	RE 97301	R	0.44	—	0.77			
97328	C	0.24	—	0.37	RE 97320 Pulp	R	0.46	—	0.52			
97329	C	0.23	—	0.37	RE 97340 Pulp	R	0.31	—	0.34			
97330	C	0.18	—	0.29	RE 97359	R	0.87	—	1.13			
97331	C	0.18	—	0.29	Blank iPL	Z	<0.01	—	<0.01			
97332	C	0.25	—	0.39	FA StdC	Z	0.31	—	—			
97333	C	0.29	—	0.39	FA_StdC REF		0.33	0.33	—			
97334	C	0.45	—	0.82								
97335	C	0.31	—	0.43								
97336	C	0.29	—	0.44								
97337	C	0.82	—	0.99								
97338	C	0.71	—	0.86								
97339	C	0.29	—	0.37								

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS

iPL 33J1650

Phone: (604) 767-6048
 Fax: (604) 608-3303
 Email: iolab@attglobal.net
 [165014:53:03:30100703:001]

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

66 Samples

Out: Oct 07, 2003 In: Oct 03, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	63	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

Document Distribution

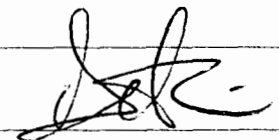
1 bcMetals
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 B.C. V6G 1Y5
 Canada
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 Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C01840103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 33J1650

Date: 07/03/03
 Time: 09:00
 Page 1 of 1

Client : bcMetals
 Project: Red Chris

66 Samples

Ship# 63=Core 3=Pulp 1=Blk iPL 1=Std iPL [165014:53:03:30100703:001]

Out: Oct 07, 2003
 In : Oct 03, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
97366	C	0.47	—	0.72	97405	C	1.16	1.19	1.07			
97367	C	0.86	—	1.64	97406	C	2.15	2.18	2.22			
97368	C	0.51	—	0.70	97407	C	2.47	2.94	1.46			
97369	C	0.87	—	1.21	97408	C	1.32	1.25	1.03			
97370	C	0.80	—	0.75	97409	C	1.33	1.24	1.18			
97371	C	0.37	—	0.51	97410	C	1.51	1.38	1.47			
97372	C	0.58	—	0.73	97411	C	1.01	0.91	0.95			
97373	C	0.31	—	0.45	97412	C	0.68	—	0.73			
97374	C	0.36	—	0.39	97413	C	0.47	—	0.54			
97375	C	0.51	—	0.62	97414	C	0.62	—	1.15			
97376	C	0.94	—	1.03	97415	C	1.08	0.95	0.54			
97377	C	0.91	—	1.01	97416	C	1.46	1.43	1.72			
97378	C	0.43	—	0.56	97417	C	1.26	1.08	1.24			
97379	C	0.68	—	0.74	97418	C	0.92	—	0.87			
97380	Pulp	P	0.61	0.52	97419	C	0.89	—	0.62			
97381	C	0.78	—	0.78	97420	Pulp	P	0.47	—	0.84		
97382	C	0.50	—	0.55	97421	C	1.27	1.23	1.27			
97383	C	0.79	—	0.80	97422	C	1.60	1.59	1.27			
97384	C	1.05	0.99	1.08	97423	C	1.34	1.29	1.13			
97385	C	0.93	—	0.98	97424	C	1.26	1.30	1.21			
97386	C	0.55	—	0.53	97425	C	1.04	0.97	0.91			
97387	C	1.02	1.14	1.01	97426	C	1.41	1.33	1.42			
97388	C	0.73	—	0.77	97427	C	0.93	—	0.84			
97389	C	0.86	—	0.95	97428	C	1.02	1.10	0.90			
97390	C	0.91	—	0.95	97429	C	0.74	—	0.62			
97391	C	0.99	—	1.28	97430	C	1.19	1.18	0.89			
97392	C	0.83	—	0.97	97431	C	0.90	—	0.78			
97393	C	0.86	—	0.96	Blk iPL	Z	<0.01	—	<0.01			
97394	C	1.44	1.71	1.92	Std iPL	Z	0.36	—	—			
97395	C	0.90	—	0.98	RE 97366	R	0.38	—	0.71			
97396	C	1.23	1.08	1.13	RE 97385	R	0.88	—	0.96			
97397	C	1.60	1.63	1.40	RE 97405	R	1.05	—	1.04			
97398	C	1.59	2.16	1.65	RE 97424	R	1.20	—	1.20			
97399	C	2.14	2.26	1.91								
97400	Pulp	P	0.34	0.38								
97401	C	1.68	1.87	1.40								
97402	C	3.16	3.37	2.51								
97403	C	2.10	2.37	2.00								
97404	C	2.08	2.42	1.70								

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 33J1652

Vancouver, BC
 Canada V6P 4R1
 Phone (604) 879-7886
 Fax (604) 879-7888
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

65 Samples

62=Core 3=Pulp 1=Blk iPL 4=Repeat

[165215:49:03:30100803:001]

Out: Oct 08, 2003
 In : Oct 03, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
97432	C	0.01	—	<0.01	97471	C	0.35	—	0.44			
97433	C	0.02	—	0.02	97472	C	0.33	—	0.39			
97434	C	0.04	—	0.02	97473	C	0.38	—	0.63			
97435	C	0.02	—	<0.01	97474	C	0.35	—	0.46			
97436	C	0.02	—	0.06	97475	C	0.38	—	0.55			
97437	C	0.01	—	0.04	97476	C	0.18	—	0.49			
97438	C	0.01	—	0.04	97477	C	0.11	—	0.14			
97439	C	0.01	—	0.03	97478	C	0.18	—	0.29			
97440	Pulp	P	0.61	—	0.54	97479	C	0.25	—	0.28		
97441	C	0.01	—	0.03	97480	Pulp	P	0.66	—	0.87		
97442	C	0.01	—	0.02	97481	C	0.39	—	0.49			
97443	C	0.01	—	0.02	97482	C	0.41	—	0.37			
97444	C	0.01	—	0.02	97483	C	0.13	—	0.25			
97445	C	0.01	—	0.02	97484	C	0.06	—	0.13			
97446	C	0.01	—	0.01	97485	C	0.13	—	0.22			
97447	C	0.01	—	0.02	97486	C	0.12	—	0.18			
97448	C	0.01	—	0.01	97487	C	0.11	—	0.23			
97449	C	0.02	—	0.01	97488	C	0.16	—	0.23			
97450	C	0.01	—	<0.01	97489	C	0.36	—	0.43			
97451	C	0.01	—	0.02	97490	C	0.15	—	0.23			
97452	C	0.01	—	0.01	97491	C	0.19	—	0.50			
97453	C	0.01	—	0.02	97492	C	0.13	—	0.25			
97454	C	0.05	—	0.09	97493	C	0.23	—	0.35			
97455	C	0.12	—	0.21	97494	C	0.14	—	0.24			
97456	C	0.13	—	0.24	97495	C	0.34	—	0.46			
97457	C	0.11	—	0.20	97496	C	0.21	—	0.26			
97458	C	0.22	—	0.46	Blank iPL	Z	<0.01	—	—			
97459	C	0.22	—	0.34	FA StdC	Z	0.33	—	—			
97460	Pulp	P	0.30	—	FA StdC REF		0.33	0.33	—			
97461	C	0.18	—	0.25	RE 97432	R	0.01	—	<0.01			
97462	C	0.17	—	0.32	RE 97451	R	0.02	—	0.02			
97463	C	0.25	—	0.36	RE 97471	R	0.34	—	0.43			
97464	C	0.48	—	0.74	RE 97490	R	0.13	—	0.23			
97465	C	0.37	—	0.37								
97466	C	0.38	—	0.50								
97467	C	0.34	—	0.66								
97468	C	0.27	—	0.42								
97469	C	0.67	—	0.91								
97470	C	0.56	—	0.61								

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

0.01 0.07 0.01
 9999.00 9999.00 100.00
 FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL J3J1652

Vancouver, BC
 Canada V6C 2T6
 Phone (604) 879-7878
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 Email iplab@telus.net
 [165215:49:03:30100803:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

65 Samples

Out: Oct 08, 2003 In: Oct 03, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) / Every 20th sample send to ALS

Document Distribution

	EN	RT	CC	IN	FX
1 bcMetals	1	2	1	2	1
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Vancouver	0	0	1	0	0
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Canada					
Att: Ian Smith					
	Ph: (604)683-0140				
	Fx: (604)683-0126				
	Em: smithib@attglobal.net				
2 bcMetals	1	2	1	2	1
488 - 625 Howe Street	DL	3D	EM	BT	BL
Vancouver	0	0	1	0	0
B.C. V6C 2T6					
Canada					
Att: Ron Simpson					
	Ph: (604)683-0140				
	Fx: (604)683-0126				
	Em: rgs@uniserve.com				

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C01840103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS

iPL J3J1655

Canada, V6E 1
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 Email iplab@telus.net
 [165517:28:06:30101003:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

65 Samples

Out: Oct 10, 2003 In: Oct 06, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) /

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 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
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 Fx: (604)683-0126
 Em: smithib@attglobe1.net

3 bcMetals EN RT CC IN FX
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 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ron Simpson Ph: (604)683-0140
 Fx: (604)683-0126
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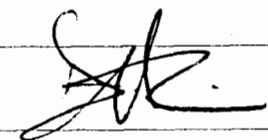
#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BDS Type BL=BBS(1=Yes 0=No) ID=C0184090103

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BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

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Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

65 Samples

Ship# 62=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [165517:28:06:30101003:001]

Out: Oct 10, 2003
In : Oct 06, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
95709	C	0.98	—	1.11	95748	C	0.38	—	0.56		
95710	C	1.29	1.16	1.96	95749	C	0.36	—	0.31		
95711	C	2.53	2.75	2.78	95750	C	0.31	—	0.37		
95712	C	1.64	1.56	1.27	95751	C	0.34	—	0.51		
95713	C	2.54	2.80	2.21	95752	C	0.32	—	0.38		
95714	C	1.32	1.42	1.19	95753	C	0.48	—	0.63		
95715	C	2.02	2.26	1.96	95754	C	0.35	—	0.41		
95716	C	2.22	2.41	1.48	95755	C	0.37	—	0.34		
95717	C	1.85	1.75	1.39	95756	C	0.61	—	0.58		
95718	C	1.99	2.12	1.87	95757	C	0.40	—	0.42		
95719	C	1.38	1.42	0.91	95758	C	0.67	—	0.57		
95720 Pulp	P	0.74	—	0.93	95759	C	0.65	—	0.90		
95721	C	2.16	2.11	1.47	95760 Pulp	P	0.03	—	0.02		
95722	C	1.89	1.99	1.36	95761	C	0.75	—	0.81		
95723	C	2.57	2.15	1.63	95762	C	0.52	—	0.55		
95724	C	3.29	3.40	2.29	95763	C	0.78	—	0.71		
95725	C	3.26	3.29	2.04	95764	C	0.33	—	0.47		
95726	C	2.78	2.60	1.56	95765	C	0.60	—	0.64		
95727	C	1.93	1.83	1.43	95766	C	0.54	—	0.58		
95728	C	1.76	1.75	1.42	95767	C	0.66	—	0.57		
95729	C	2.31	2.30	2.10	95768	C	0.44	—	0.48		
95730	C	1.86	1.60	1.80	95769	C	0.75	—	0.81		
95731	C	0.88	—	0.84	95770	C	0.73	—	0.75		
95732	C	0.80	—	0.76	95771	C	0.91	—	0.86		
95733	C	0.77	—	0.69	95772	C	0.89	—	0.77		
95734	C	0.76	—	0.75	95773	C	0.87	—	0.64		
95735	C	0.57	—	0.57	RE 95709	R	0.99	—	1.11		
95736	C	0.79	—	0.75	RE 95728	R	1.49	—	1.43		
95737	C	3.24	4.16	2.20	RE 95748	R	0.50	—	0.56		
95738	C	0.83	—	0.78	RE 95767	R	0.65	—	0.56		
95739	C	0.75	—	0.79	Blank	Z	<0.01	—	<0.01		
95740 Pulp	P	0.30	—	0.36	STD C	Z	0.36	—	—		
95741	C	0.91	—	0.79							
95742	C	0.54	—	0.51							
95743	C	0.80	—	0.74							
95744	C	0.91	—	0.74							
95745	C	0.83	—	0.80							
95746	C	0.94	—	0.90							
95747	C	0.74	—	0.81							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 33J1656

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 [165615:30:06:30100903:002]

INTERNATIONAL PLASMA LABORATORY LTD.

45 Samples

Out: Oct 09, 2003 In: Oct 06, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	43	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) /

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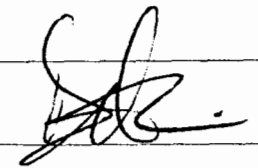
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	Em:	smithib@attglobal.net			
2 bcMetals	1	2	1	2	1
488 - 625 Howe Street	DL	3D	EM	BT	BL
Vancouver	0	0	1	0	0
B.C. V6C 2T6					
Canada					
Att: Ron Simpson					
	Ph:	(604)683-0140			
	Fx:	(604)683-0126			
	Em:	rgs@uniserve.com			

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

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 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

45 Samples
 Ship# 43=Core 2=Pulp 3=Repeat 1=Blk iPL 1 [165615:30:06:30100903:002]

Out: Oct 09, 2003
 In : Oct 06, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
95774	C	0.61	—	0.57	95813	C	1.19	1.23	1.27			
95775	C	1.01	1.00	0.74	95814	C	1.02	1.01	1.08			
95776	C	0.64	—	0.56	95815	C	1.19	1.25	1.26			
95777	C	0.56	—	0.45	95816	C	1.25	1.18	0.94			
95778	C	0.66	—	0.52	95817	C	0.94	—	0.75			
95779	C	0.85	—	0.78	95818	C	1.65	1.80	1.53			
95780	Pulp	P	0.03	—	0.02	RE 95774	R	0.64	—	0.57		
95781	C	0.55	—	0.53	RE 95793	R	0.60	—	0.47			
95782	C	0.68	—	0.69	RE 95813	R	1.28	—	1.27			
95783	C	1.48	1.39	1.34	Blank	Z	<0.01	—	—			
95784	C	1.29	1.38	1.03	STD C	Z	0.35	—	—			
95785	C	0.68	—	0.62								
95786	C	0.63	—	0.63								
95787	C	0.79	—	0.83								
95788	C	0.84	—	0.82								
95789	C	0.80	—	1.12								
95790	C	1.00	1.02	1.12								
95791	C	0.89	—	0.89								
95792	C	0.79	—	0.86								
95793	C	0.62	—	0.47								
95794	C	0.73	—	0.70								
95795	C	1.03	1.04	1.01								
95796	C	0.91	—	1.05								
95797	C	1.23	1.17	1.14								
95798	C	0.73	—	0.55								
95799	C	1.27	1.34	1.96								
95800	Pulp	P	0.61	—	0.85							
95801	C	1.21	1.16	1.78								
95802	C	1.37	1.73	1.72								
95803	C	1.76	1.80	1.79								
95804	C	1.43	1.46	1.87								
95805	C	0.82	—	0.82								
95806	C	1.02	1.12	1.11								
95807	C	0.60	—	0.80								
95808	C	0.79	—	0.61								
95809	C	0.88	—	1.00								
95810	C	1.14	1.38	1.21								
95811	C	3.14	2.80	0.91								
95812	C	1.24	1.27	1.12								

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Rec'check m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

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 Email iplab@telus.net
 [165715:04:15:30101003:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

122 Samples

Out: Oct 10, 2003 In: Oct 06, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	116	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	6	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	7	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu>.3% do ICP(AqR) /

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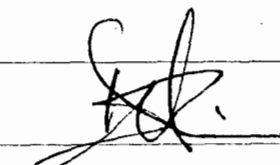
3 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ron Simpson Ph: (604)683-0140
 Fx: (604)683-0126
 Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit	Limit
						Low	High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3J1657

Canada 3F1
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 Email iplab@telus.net
 Page 1 of 2

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project : Red Chris

122 Samples

Ship# 116=Core 6=PuIp 7=Repeat 1=Blk iPL [165715:04:15:30101003:001]

Out: Oct 10, 2003
 In : Oct 06, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
95587	C	0.31	—	0.52	95626	C	0.35	—	0.72	95665	C	0.61	—	0.87
95588	C	0.22	—	0.48	95627	C	0.59	—	1.44	95666	C	0.43	—	0.72
95589	C	0.19	—	0.37	95628	C	0.83	—	1.59	95667	C	0.57	—	0.87
95590	C	0.31	—	0.57	95629	C	0.28	—	0.33	95668	C	0.94	—	1.07
95591	C	0.32	—	0.47	95630	C	0.33	—	0.73	95669	C	0.47	—	0.55
95592	C	0.45	—	0.68	95631	C	0.76	—	1.77	95670	C	0.62	—	0.83
95593	C	0.77	—	1.01	95632	C	0.40	—	0.77	95671	C	0.86	—	1.06
95594	C	0.62	—	1.00	95633	C	0.55	—	0.89	95672	C	1.05	1.12	1.29
95595	C	0.33	—	0.65	95634	C	0.90	—	1.44	95673	C	0.46	—	0.53
95596	C	0.42	—	0.72	95635	C	1.34	1.28	2.18	95674	C	0.80	—	1.08
95597	C	0.58	—	0.93	95636	C	1.28	1.26	1.34	95675	C	0.86	—	0.98
95598	C	0.89	—	1.70	95637	C	1.88	1.96	2.28	95676	C	0.63	—	1.16
95599	C	0.34	—	0.59	95638	C	1.81	1.87	2.24	95677	C	1.44	1.34	2.00
95600 Pulp	P	0.28	—	0.36	95639	C	1.39	1.52	1.70	95678	C	0.66	—	1.11
95601	C	0.77	—	0.98	95640 Pulp	P	0.56	—	0.90	95679	C	1.18	1.44	1.51
95602	C	0.99	—	1.68	95641	C	1.15	1.23	1.92	95680 Pulp	P	0.29	—	<0.01
95603	C	1.04	1.05	1.39	95642	C	1.00	1.05	1.47	95681	C	0.99	—	1.24
95604	C	0.07	—	0.15	95643	C	1.19	1.26	1.83	95682	C	0.89	—	1.21
95605	C	0.46	—	1.06	95644	C	1.18	1.20	2.17	95683	C	1.00	1.09	1.49
95606	C	0.25	—	0.50	95645	C	2.04	2.24	3.56	95684	C	0.96	—	1.47
95607	C	0.16	—	0.40	95646	C	1.78	1.85	3.28	95685	C	0.86	—	1.01
95608	C	0.26	—	0.48	95647	C	1.02	1.07	1.43	95686	C	0.95	—	1.25
95609	C	0.29	—	0.38	95648	C	1.40	1.35	1.21	95687	C	1.27	1.29	1.98
95610	C	0.35	—	0.67	95649	C	0.91	—	0.69	95688	C	1.47	1.49	1.74
95611	C	0.20	—	0.40	95650	C	1.38	1.46	2.50	95689	C	1.48	1.38	1.87
95612	C	0.32	—	0.73	95651	C	1.41	1.48	2.74	95690	C	1.15	1.16	1.48
95613	C	0.28	—	0.53	95652	C	0.59	—	0.84	95691	C	0.92	—	0.83
95614	C	0.27	—	0.58	95653	C	0.51	—	0.80	95692	C	0.79	—	1.50
95615	C	0.22	—	0.42	95654	C	0.93	—	1.28	95693	C	0.63	—	1.06
95616	C	0.28	—	0.47	95655	C	0.86	—	1.52	95694	C	1.36	1.25	1.62
95617	C	0.44	—	0.61	95656	C	1.22	1.38	1.93	95695	C	0.92	—	1.47
95618	C	0.25	—	0.49	95657	C	0.95	—	0.92	95696	C	1.83	2.19	2.75
95619	C	0.53	—	0.88	95658	C	0.62	—	0.83	95697	C	0.57	—	0.55
95620 Pulp	P	0.57	—	0.55	95659	C	0.33	—	0.58	95698	C	0.95	—	1.02
95621	C	0.35	—	0.62	95660 Pulp	P	0.53	—	0.55	95699	C	1.85	2.09	1.83
95622	C	0.33	—	0.39	95661	C	0.40	—	0.52	95700 Pulp	P	0.57	—	0.56
95623	C	0.41	—	0.92	95662	C	0.31	—	0.40	95701	C	1.31	1.16	1.16
95624	C	0.57	—	1.08	95663	C	0.65	—	0.77	95702	C	0.76	—	0.80
95625	C	0.52	—	0.86	95664	C	0.67	—	0.81	95703	C	0.57	—	0.63

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Ret'check m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS

iPL 33J1658

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 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

65 Samples

Ship# 61=Core 4=Pulp 1=Blk iPL 1=Std iPL [165817:42:09:30100903:001]

Out: Oct 09, 2003
 In : Oct 06, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
97497	C	0.15	—	0.19	97536	C	0.19	—	0.30		
97498	C	0.17	—	0.22	97537	C	0.31	—	0.51		
97499	C	0.18	—	0.26	97538	C	0.23	—	0.36		
97500	Pulp	0.53	—	0.54	97539	C	0.28	—	0.44		
97501	C	0.37	—	0.70	97540	Pulp	0.72	—	0.90		
97502	C	0.19	—	0.33	97541	C	0.21	—	0.39		
97503	C	0.22	—	0.29	97542	C	0.27	—	0.46		
97504	C	0.29	—	0.41	97543	C	0.24	—	0.41		
97505	C	0.31	—	0.47	97544	C	0.16	—	0.35		
97506	C	0.31	—	0.50	97545	C	0.13	—	0.19		
97507	C	0.16	—	0.25	97546	C	0.12	—	0.18		
97508	C	0.24	—	0.30	97547	C	0.16	—	0.27		
97509	C	0.27	—	0.41	97548	C	0.15	—	0.28		
97510	C	0.30	—	0.50	97549	C	0.24	—	0.45		
97511	C	0.33	—	0.55	97550	C	0.18	—	0.30		
97512	C	0.23	—	0.35	97551	C	0.31	—	0.50		
97513	C	0.28	—	0.59	97552	C	0.26	—	0.51		
97514	C	0.35	—	0.44	97553	C	0.23	—	0.41		
97515	C	0.39	—	0.51	97554	C	0.22	—	0.39		
97516	C	0.35	—	0.53	97555	C	0.27	—	0.46		
97517	C	0.19	—	0.29	97556	C	0.34	—	0.63		
97518	C	0.25	—	0.42	97557	C	0.27	—	0.42		
97519	C	0.45	—	0.63	97558	C	0.37	—	0.50		
97520	Pulp	0.29	—	0.35	97559	C	0.40	—	0.53		
97521	C	0.24	—	0.37	97560	Pulp	0.53	—	0.55		
97522	C	0.23	—	0.47	97561	C	0.14	—	0.23		
97523	C	0.24	—	0.37	Blk iPL	Z	<0.01	—	<0.01		
97524	C	0.19	—	0.24	Std iPL	Z	0.30	—	—		
97525	C	0.28	—	0.48	RE 97497	R	0.17	—	0.20		
97526	C	0.22	—	0.36	RE 97516	R	0.34	—	0.52		
97527	C	0.25	—	0.39	RE 97536	R	0.21	—	0.31		
97528	C	0.19	—	0.30	RE 97555	R	0.26	—	0.45		
97529	C	0.16	—	0.29							
97530	C	0.16	—	0.29							
97531	C	0.21	—	0.31							
97532	C	0.25	—	0.36							
97533	C	0.16	—	0.24							
97534	C	0.27	—	0.39							
97535	C	0.26	—	0.35							

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA
 0.01 0.07 0.01
 9999.00 9999.00 100.00
 FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 3J1660

Canada - 3E1
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 Fax (604) 879-7898
 Email iplab@telus.net
 [166012:44:54:30101503:001]

INTERNATIONAL PLATINA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

64 Samples

Out: Oct 15, 2003 In: Oct 07, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	61	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu / Every 20th sample send to ALS

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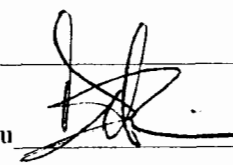
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 Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3J1660

Canada 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

64 Samples

Ship# 61=Core 3=Pulp 1=Blk iPL 1=Std iPL [166010:49:42:30101503:001]

Out: Oct 15, 2003
 In : Oct 07, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt.	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
97562	C	0.17	—	0.25	97601	C	0.14	—	0.16		
97563	C	0.34	—	0.27	97602	C	0.10	—	0.15		
97564	C	0.17	—	0.22	97603	C	0.10	—	0.14		
97565	C	0.18	—	0.24	97604	C	0.08	—	0.09		
97566	C	0.15	—	0.35	97605	C	0.05	—	0.06		
97567	C	0.14	—	0.33	97606	C	0.10	—	0.13		
97568	C	0.22	—	0.33	97607	C	0.11	—	0.10		
97569	C	0.20	—	0.35	97608	C	0.08	—	0.10		
97570	C	0.22	—	0.54	97609	C	0.09	—	0.10		
97571	C	0.21	—	0.58	97610	C	0.04	—	0.04		
97572	C	0.25	—	0.38	97611	C	0.03	—	0.03		
97573	C	0.32	—	0.38	97612	C	0.03	—	0.03		
97574	C	0.23	—	0.46	97613	C	0.03	—	0.03		
97575	C	0.27	—	0.95	97614	C	0.03	—	0.03		
97576	C	0.34	—	0.02	97615	C	0.04	—	0.05		
97577	C	0.58	—	0.01	97616	C	0.04	—	0.06		
97578	C	0.05	—	0.02	97617	C	0.06	—	0.10		
97579	C	0.03	—	0.01	97618	C	0.04	—	0.08		
97580	Pulp	P	0.29	0.36	97619	C	0.05	—	0.08		
97581	C	0.08	—	0.03	97620	Pulp	P	0.61	—	0.52	
97582	C	0.05	—	0.03	97621	C	0.03	—	0.03		
97583	C	0.04	—	0.02	97622	C	0.03	—	0.07		
97584	C	0.08	—	0.03	97623	C	0.05	—	0.09		
97585	C	0.09	—	0.03	97624	C	0.08	—	0.15		
97586	C	0.06	—	0.03	97625	C	0.05	—	0.10		
97587	C	0.04	—	<0.01	Blk iPL	Z	<0.01	—	<0.01		
97588	C	0.05	—	0.02	Std iPL	Z	0.34	—	—		
97589	C	0.04	—	0.02	RE 97562	R	0.17	—	0.26		
97590	C	0.04	—	0.02	RE 97581	R	0.08	—	0.03		
97591	C	0.07	—	0.05	RE 97601	R	0.16	—	0.16		
97592	C	0.08	—	0.06	RE 97620	Pulp R	0.58	—	0.53		
97593	C	0.05	—	0.04							
97594	C	0.05	—	0.02							
97595	C	0.07	—	0.02							
97596	C	0.09	—	0.08							
97597	C	0.08	—	0.08							
97598	C	0.09	—	0.11							
97599	C	0.09	—	0.07							
97600	Pulp	P	0.55	0.88							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

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CERTIFICATE OF ANALYSIS

iPL 03J1665

Canada 311
 Phone (604) 870-7000
 Fax (604) 870-7000
 Email iplab@telus.net
 [166512:44:36:30101503:005]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

63 Samples

Out: Oct 09, 2003 In: Oct 07, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	60	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu / Every 20th sample send to ALS

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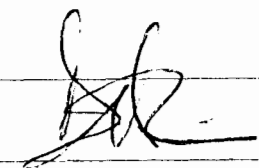
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01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
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03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03J1665

Canada 04-1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

63 Samples

Ship#

60=Core 3=Pulp 4=Repeat 1=Blk iPL

[166510:50:12:30101503:005]

Out: Oct 09, 2003

In : Oct 07, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
97691	C	0.17	—	0.28	97730	C	0.01	—	<0.01		
97692	C	0.21	—	0.34	97731	C	0.01	—	<0.01		
97693	C	0.34	—	0.44	97732	C	0.01	—	<0.01		
97694	C	0.26	—	0.40	97733	C	0.01	—	0.01		
97695	C	0.25	—	0.35	97734	C	0.01	—	<0.01		
97696	C	0.20	—	0.26	97735	C	0.01	—	<0.01		
97697	C	0.37	—	0.33	97736	C	0.02	—	<0.01		
97698	C	0.30	—	0.43	97737	C	0.01	—	<0.01		
97699	C	0.33	—	0.55	97738	C	0.02	—	<0.01		
97700 Pulp	P	0.29	—	0.36	97739	C	0.02	—	<0.01		
97701	C	0.25	—	0.34	97740 Pulp	P	0.60	—	0.56		
97702	C	0.23	—	0.36	97741	C	0.02	—	<0.01		
97703	C	0.21	—	0.39	97742	C	0.02	—	<0.01		
97704	C	0.17	—	0.28	97743	C	0.02	—	<0.01		
97705	C	0.20	—	0.26	97744	C	0.02	—	0.01		
97706	C	0.24	—	0.32	97745	C	0.03	—	0.03		
97707	C	0.19	—	0.29	97746	C	0.03	—	0.04		
97708	C	0.05	—	0.06	97747	C	0.03	—	0.08		
97709	C	0.04	—	0.05	97748	C	0.04	—	0.10		
97710	C	0.54	—	0.63	97749	C	0.04	—	0.14		
97711	C	0.23	—	0.28	97750	C	0.05	—	0.10		
97712	C	0.28	—	0.22	97751	C	0.04	—	0.08		
97713	C	0.33	—	0.36	97752	C	0.03	—	0.03		
97714	C	0.18	—	0.26	97753	C	0.01	—	<0.01		
97715	C	0.15	—	0.18	RE 97691	R	0.17	—	0.28		
97716	C	0.19	—	0.29	RE 97710	R	0.52	—	0.62		
97717	C	0.14	—	0.19	RE 97730	R	0.01	—	<0.01		
97718	C	0.19	—	0.29	RE 97749	R	0.04	—	0.13		
97719	C	0.38	—	0.46	Blank iPL	Z	<0.01	—	<0.01		
97720 Pulp	P	0.64	—	0.92	FA_StdC	Z	0.35	—	—		
97721	C	1.38	1.56	1.22	FA_StdC REF		0.33	0.33	—		
97722	C	0.57	—	0.57							
97723	C	0.25	—	0.28							
97724	C	0.28	—	0.28							
97725	C	0.22	—	0.23							
97726	C	0.24	—	0.23							
97727	C	0.35	—	0.25							
97728	C	0.97	—	0.63							
97729	C	0.03	—	<0.01							

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Recheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS

iPL 03J1675

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 [167512:45:06:30101503:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

65 Samples

Out: Oct 11, 2003 In: Oct 09, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
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NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

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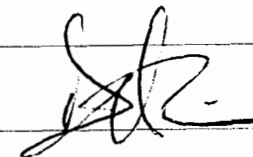
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BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

IP. 03J1675

Canada 811
 Phone (604) 879-7898
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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project : Red Chris

Ship# 65 Samples

62=Core 3=Pulp 4=Repeat 1=Blk iPL

[167510:50:01:30101503:002]

Out: Oct 11, 2003
In : Oct 09, 2003

Page 1 of 1

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
97626	C	0.04	—	0.08	97665	C	0.23	—	0.37					
97627	C	0.06	—	0.07	97666	C	0.29	—	0.47					
97628	C	0.08	—	0.09	97667	C	0.33	—	0.52					
97629	C	0.08	—	0.12	97668	C	0.36	—	0.54					
97630	C	0.05	—	0.10	97669	C	0.16	—	0.24					
97631	C	0.03	—	0.06	97670	C	0.24	—	0.42					
97632	C	0.06	—	0.11	97671	C	0.54	—	0.73					
97633	C	0.05	—	0.10	97672	C	0.30	—	0.51					
97634	C	0.06	—	0.09	97673	C	0.40	—	0.66					
97635	C	0.07	—	0.09	97674	C	0.29	—	0.56					
97636	C	0.07	—	0.08	97675	C	0.21	—	0.36					
97637	C	0.09	—	0.12	97676	C	0.19	—	0.25					
97638	C	0.07	—	0.09	97677	C	0.19	—	0.30					
97639	C	0.06	—	0.09	97678	C	0.18	—	0.29					
97640 Pulp	P	0.30	—	0.34	97679	C	0.17	—	0.42					
97641	C	0.07	—	0.10	97680 Pulp	P	0.57	—	0.52					
97642	C	0.13	—	0.19	97681	C	0.33	—	0.49					
97643	C	0.04	—	0.09	97682	C	0.11	—	0.17					
97644	C	0.02	—	0.04	97683	C	0.07	—	0.10					
97645	C	0.02	—	0.04	97684	C	0.01	—	0.01					
97646	C	0.02	—	0.05	97685	C	0.25	—	0.34					
97647	C	0.03	—	0.07	97686	C	0.17	—	0.25					
97648	C	0.02	—	0.08	97687	C	0.50	—	0.78					
97649	C	0.07	—	0.14	97688	C	0.54	—	0.67					
97650	C	0.16	—	0.27	97689	C	0.27	—	0.39					
97651	C	0.16	—	0.19	97690	C	0.23	—	0.43					
97652	C	0.16	—	0.25	RE 97626	R	0.05	—	0.08					
97653	C	0.14	—	0.24	RE 97645	R	0.02	—	0.04					
97654	C	0.15	—	0.27	RE 97665	R	0.23	—	0.36					
97655	C	0.18	—	0.32	RE 97684	R	0.01	—	<0.01					
97656	C	0.05	—	0.11	Blank iPL	Z	<0.01	—	<0.01					
97657	C	0.02	—	0.05	FA StdC	Z	0.36	—	—					
97658	C	0.15	—	0.23	FA StdC REF		0.33	0.33	—					
97659	C	0.02	—	0.06										
97660 Pulp	P	0.79	—	0.87										
97661	C	0.26	—	0.40										
97662	C	0.20	—	0.32										
97663	C	0.49	—	0.59										
97664	C	0.35	—	0.53										

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS

iPL 03J1657

Canada: 33 381
 Phone: (604) 879-7878
 Fax: (604) 879-7898
 Email: iplab@telus.net
 Page 2 of 2

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

122 Samples

Ship# 116=Core 6=Pulp 7=Repeat 1=Blk iPL [165715:04:15:30101003:001]

Out: Oct 10, 2003
 In : Oct 06, 2003

Sample Name	Au	Au	Cu	Sample Name	Au	Au	Cu	Sample Name	Au	Au	Cu
	g/mt	g/mt	%		g/mt	g/mt	%		g/mt	g/mt	%
95704	C	1.42	1.32	1.25							
95705	C	1.45	1.55	1.45							
95706	C	2.23	2.04	2.29							
95707	C	3.62	3.60	3.15							
95708	C	1.26	1.34	1.23							
RE 95587	R	0.29	—	0.52							
RE 95606	R	0.23	—	0.47							
RE 95626	R	0.40	—	0.70							
RE 95645	R	2.21	—	3.52							
RE 95665	R	0.62	—	0.87							
RE 95684	R	0.99	—	1.45							
RE 95704	R	1.40	—	1.24							
Blank iPL	Z	<0.01	—	<0.01							
FA StdC	Z	0.32	—	—							
FA StdC REF		0.33	0.33	—							

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS

iPL 33J1678

Canada V.I. 3F1
 Phone (604) 879-7878
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INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

90 Samples
 Ship# 85=Core 5=Pulp 5=Repeat 1=Blk iPL [167811:27:18:30101703:004]

Out: Oct 13, 2003
 In : Oct 09, 2003
 Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
97754	C	0.01	—	0.01	97793	C	0.38	—	0.36	97832	C	0.10	—	0.12
97755	C	0.01	—	0.01	97794	C	0.31	—	0.24	97833	C	0.15	—	0.16
97756	C	0.01	—	<0.01	97795	C	0.36	—	0.32	97834	C	0.17	—	0.17
97757	C	0.01	—	<0.01	97796	C	0.41	—	0.32	97835	C	0.17	—	0.16
97758	C	0.01	—	0.01	97797	C	1.45	1.51	1.00	97836	C	0.12	—	0.10
97759	C	0.02	—	0.01	97798	C	0.45	—	0.27	97837	C	0.18	—	0.14
97760 Pulp	P	0.31	—	0.34	97799	C	0.48	—	0.34	97838	C	0.15	—	0.10
97761	C	0.02	—	0.02	97800 Pulp	P	0.56	—	0.53	97839	C	0.16	—	0.15
97762	C	0.03	—	0.03	97801	C	0.33	—	0.23	97840 Pulp	P	0.82	—	0.89
97763	C	0.02	—	0.02	97802	C	0.44	—	0.35	97841	C	0.19	—	0.16
97764	C	0.02	—	0.02	97803	C	0.24	—	0.15	97842	C	0.20	—	0.20
97765	C	0.02	—	0.02	97804	C	0.35	—	0.31	97843	C	0.24	—	0.22
97766	C	0.01	—	<0.01	97805	C	0.45	—	0.28	RE 97754	R	0.01	—	<0.01
97767	C	0.01	—	<0.01	97806	C	0.23	—	0.15	RE 97773	R	0.02	—	0.01
97768	C	0.01	—	0.02	97807	C	0.28	—	0.19	RE 97793	R	0.32	—	0.36
97769	C	0.02	—	0.01	97808	C	0.31	—	0.23	RE 97812	R	0.50	—	0.36
97770	C	0.02	—	0.01	97809	C	0.83	—	0.56	RE 97832	R	0.10	—	0.12
97771	C	0.01	—	0.02	97810	C	0.69	—	0.33	Blank iPL	Z	<0.01	—	—
97772	C	0.01	—	0.01	97811	C	0.70	—	0.38	FA_StdC	Z	0.35	—	—
97773	C	0.02	—	0.01	97812	C	0.42	—	0.35	FA_StdC REF		0.33	0.33	—
97774	C	0.02	—	0.02	97813	C	0.28	—	0.27					
97775	C	0.02	—	0.01	97814	C	0.48	—	0.38					
97776	C	0.03	—	0.02	97815	C	0.50	—	0.35					
97777	C	0.02	—	0.02	97816	C	0.85	—	0.41					
97778	C	0.04	—	0.05	97817	C	0.44	—	0.35					
97779	C	0.02	—	0.03	97818	C	0.53	—	0.37					
97780 Pulp	P	0.71	—	0.85	97819	C	0.51	—	0.31					
97781	C	0.07	—	0.10	97820 Pulp	P	0.31	—	0.35					
97782	C	0.09	—	0.15	97821	C	0.54	—	0.40					
97783	C	0.13	—	0.19	97822	C	0.33	—	0.22					
97784	C	0.13	—	0.19	97823	C	0.30	—	0.29					
97785	C	0.27	—	0.44	97824	C	0.39	—	0.31					
97786	C	0.19	—	0.21	97825	C	0.36	—	0.25					
97787	C	0.33	—	0.29	97826	C	0.41	—	0.26					
97788	C	0.32	—	0.31	97827	C	0.45	—	0.28					
97789	C	0.33	—	0.30	97828	C	0.40	—	0.35					
97790	C	0.25	—	0.26	97829	C	0.78	—	0.47					
97791	C	0.27	—	0.25	97830	C	0.16	—	0.13					
97792	C	0.45	—	0.45	97831	C	0.17	—	0.16					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS

iPL J3J1683

Canada V. 3E1
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 Fax (604) 879-7898
 Email iplab@telus.net
 [168311:26:35:30101703:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

55 Samples

Out: Oct 12, 2003 In: Oct 09, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	53	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

Document Distribution

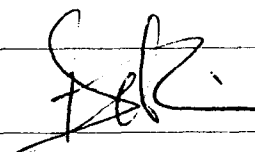
##	Code	Method	Units	Description	Element	Limit Low	Limit High
1	Red Chris Development Company Ltd.	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 0 2 0					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 0 0 0					
	Canada						
	Att: Account Payable	Ph:(604)683-0140					
		Fx:(604)683-0126					
		Em:smithib@attglobal.net					
2	bcMetals	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 1 0 0					
	Canada						
	Att: Ian Smith	Ph:(604)683-0140					
		Fx:(604)683-0126					
		Em:smithib@attglobal.net					
3	bcMetals	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 1 0 0					
	Canada						
	Att: Ron Simpson	Ph:(604)683-0140					
		Fx:(604)683-0126					
		Em:rgs@uniserve.com					

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3J1683

Canada 371
 Phone (604) 379-7878
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 Page 1 of 1

INFORMATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

55 Samples

Ship# 53=Core 2=Pulp 3=Repeat 1=Blk iPL [168311:26:35:30101703:002]

Out: Oct 12, 2003
 In : Oct 09, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
99001	C	0.14	—	0.35	99050	C	0.19	—	0.54		
99002	C	0.07	—	0.21	99051	C	0.14	—	0.39		
99003	C	0.11	—	0.27	99052	C	0.01	—	<0.01		
99004	C	0.09	—	0.26	99053	C	0.01	—	<0.01		
99005	C	0.14	—	0.28	99054	C	0.01	—	<0.01		
99006	C	0.14	—	0.25	99055	C	0.01	—	<0.01		
99007	C	0.14	—	0.31	99056	C	0.17	—	0.29		
99008	C	0.14	—	0.35	99057	C	0.12	—	0.34		
99009	C	0.04	—	<0.01	99058	C	0.12	—	0.42		
99010	C	0.04	—	<0.01	99059	C	0.20	—	0.64		
99011	C	0.04	—	0.19	99060 Pulp	P	0.60	—	0.53		
99012	C	0.06	—	0.28	99061	C	0.23	—	0.73		
99013	C	0.07	—	0.29	99062	C	0.28	—	0.70		
99014	C	0.20	—	0.25	99063	C	0.43	—	0.98		
99015	C	0.15	—	0.31	99064	C	0.33	—	0.79		
99016	C	0.18	—	0.22	99065	C	0.28	—	0.70		
99017	C	0.25	—	0.37	RE 99001	R	0.13	—	0.35		
99018	C	0.14	—	0.26	RE 99020 Pulp	R	0.02	—	0.01		
99019	C	0.14	—	0.24	RE 99050	R	0.18	—	0.55		
99020 Pulp	P	0.01	—	0.01	Blank iPL	Z	<0.01	—	—		
99021	C	0.14	—	0.34	FA StdC	Z	0.32	—	—		
99022	C	0.17	—	0.51	FA StdC REF		0.33	0.33	—		
99023	C	0.12	—	0.38							
99024	C	0.01	—	<0.01							
99025	C	0.01	—	<0.01							
99026	C	0.16	—	0.37							
99027	C	0.16	—	0.33							
99028	C	0.12	—	0.24							
99029	C	0.12	—	0.24							
99030	C	0.16	—	0.33							
99041	C	0.16	—	0.54							
99042	C	0.16	—	0.55							
99043	C	0.12	—	0.37							
99044	C	0.15	—	0.48							
99045	C	0.12	—	0.48							
99046	C	0.14	—	0.44							
99047	C	0.16	—	0.52							
99048	C	0.18	—	0.58							
99049	C	0.20	—	0.57							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS

iPL 03J1690

Canada No. 4-1
 Phone (604) 879-7878
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 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORIES LTD

Client : bcMetals
 Project: Red Chris

65 Samples

Ship# 61=Core 4=Pulp 1=Blk iPL 1=Std iPL [169011:25:16:30101703:004]

Out: Oct 12, 2003
 In : Oct 09, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
99031	C	0.13	—	0.30	99095	C	0.29	—	0.67		
99032	C	0.10	—	0.32	99096	C	0.25	—	0.66		
99033	C	0.09	—	0.25	99097	C	0.40	—	0.80		
99034	C	0.13	—	0.32	99098	C	0.35	—	0.59		
99035	C	0.18	—	0.46	99099	C	0.43	—	0.82		
99036	C	0.15	—	0.36	99100	Pulp	P	0.62	—	0.55	
99037	C	0.14	—	0.35	99101	C	0.14	—	0.18		
99038	C	0.16	—	0.42	99102	C	0.14	—	0.19		
99039	C	0.24	—	0.75	99103	C	0.09	—	0.15		
99040	Pulp	P	0.75	0.86	99104	C	0.10	—	0.15		
99066	C	0.30	—	0.68	99105	C	0.18	—	0.21		
99067	C	0.21	—	0.56	99106	C	0.19	—	0.14		
99068	C	0.18	—	0.40	99107	C	0.15	—	0.19		
99069	C	0.22	—	0.39	99108	C	0.25	—	0.38		
99070	C	0.16	—	0.39	99109	C	0.48	—	0.48		
99071	C	0.12	—	0.31	99110	C	<0.01	—	<0.01		
99072	C	0.13	—	0.32	99111	C	0.01	—	<0.01		
99073	C	0.33	—	0.41	99112	C	0.41	—	0.10		
99074	C	0.18	—	0.38	99113	C	0.11	—	0.16		
99075	C	0.17	—	0.34	99114	C	0.42	—	0.76		
99076	C	0.20	—	0.47	99115	C	0.54	—	0.70		
99077	C	0.23	—	0.41	99116	C	0.29	—	0.30		
99078	C	0.27	—	0.43	99117	C	0.26	—	0.27		
99079	C	0.26	—	0.55	99118	C	0.25	—	0.24		
99080	Pulp	P	0.29	0.34	99119	C	0.11	—	0.10		
99081	C	0.25	—	0.51	99120	Pulp	P	0.69	—	0.87	
99082	C	0.30	—	0.53	Blk iPL	Z	<0.01	—	—		
99083	C	0.25	—	0.48	Std iPL	Z	0.33	—	—		
99084	C	0.21	—	0.47	RE 99031	R	0.15	—	0.30		
99085	C	0.22	—	0.45	RE 99075	R	0.15	—	0.34		
99086	C	0.31	—	0.13	RE 99095	R	0.29	—	0.67		
99087	C	0.22	—	0.41	RE 99114	R	0.43	—	0.75		
99088	C	0.22	—	0.34							
99089	C	0.23	—	0.48							
99090	C	0.27	—	0.56							
99091	C	0.39	—	0.66							
99092	C	0.29	—	0.66							
99093	C	0.38	—	0.74							
99094	C	0.25	—	0.58							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Rec Check m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 33J1691

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 [169111:25:55:30101703:003]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

74 Samples

Out: Oct 12, 2003 In: Oct 10, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	71	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82102	1	Std Clie	Standard Client - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

Document Distribution

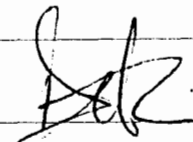
#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

1 Red Chris Development Company Ltd.	EN RT CC IN FX	1 2 0 2 0	488 - 625 Howe Street	DL 3D EM BT BL	0 0 0 0 0	Vancouver	B.C. V6C 2T6	Canada	Att: Account Payable	Ph: (604)683-0140	Fx: (604)683-0126	Em: smithib@attglobal.net
2 bcMetals	EN RT CC IN FX	1 2 1 2 1	488 - 625 Howe Street	DL 3D EM BT BL	0 0 1 0 0	Vancouver	B.C. V6C 2T6	Canada	Att: Ian Smith	Ph: (604)683-0140	Fx: (604)683-0126	Em: smithib@attglobal.net
3 bcMetals	EN RT CC IN FX	1 2 1 2 1	488 - 625 Howe Street	DL 3D EM BT BL	0 0 1 0 0	Vancouver	B.C. V6C 2T6	Canada	Att: Ron Simpson	Ph: (604)683-0140	Fx: (604)683-0126	Em: rgs@uniserve.com

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 33J1691

INTERNATIONAL PLASMA LABORATORY LTD

Canada 11 04-1
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
Page 1 of 1

Client : bcMetals
Project : Red Chris

74 Samples

Ship# 71=Core 3=Pulp 1=Blk iPL 1=Std Client [169111:25:55:30101703:003]

Out: Oct 12, 2003
In : Oct 10, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %					
99121	C	0.11	—	0.11	99160	Pulp	P	0.70	—	0.89	RE 99160	Pulp	R	0.70	—	0.89
99122	C	0.38	—	0.32	99161	C	0.14	—	0.25	RE 99179	R	0.14	—	0.43		
99123	C	0.70	—	0.54	99162	C	0.19	—	0.28							
99124	C	0.51	—	0.51	99163	C	0.18	—	0.45							
99125	C	0.53	—	0.49	99164	C	0.14	—	0.74							
99126	C	0.47	—	0.34	99165	C	0.21	—	0.45							
99127	C	0.38	—	0.36	99166	C	0.19	—	0.37							
99128	C	0.58	—	0.50	99167	C	0.18	—	0.37							
99129	C	0.15	—	0.08	99168	C	0.16	—	0.45							
99130	C	0.12	—	0.20	99169	C	0.13	—	0.37							
99131	C	0.11	—	0.24	99170	C	0.14	—	0.32							
99132	C	0.19	—	0.28	99171	C	0.19	—	0.50							
99133	C	0.24	—	0.38	99172	C	0.18	—	0.43							
99134	C	0.08	—	0.17	99173	C	0.20	—	0.37							
99135	C	0.11	—	0.31	99174	C	0.15	—	0.39							
99136	C	0.13	—	0.19	99175	C	0.13	—	0.37							
99137	C	0.10	—	0.26	99176	C	0.16	—	0.54							
99138	C	0.10	—	0.27	99177	C	0.17	—	0.45							
99139	C	0.14	—	0.25	99178	C	0.24	—	0.54							
99140	Pulp	P	0.01	0.01	99179	C	0.13	—	0.43							
99141	C	0.21	—	0.42	99180	Pulp	P	0.59	—	0.54						
99142	C	0.27	—	0.44	99181	C	0.18	—	0.50							
99143	C	0.12	—	0.32	99182	C	0.25	—	0.73							
99144	C	0.13	—	0.27	99183	C	0.19	—	0.56							
99145	C	0.12	—	0.30	99184	C	0.22	—	0.59							
99146	C	0.11	—	0.26	99185	C	0.29	—	0.79							
99147	C	0.10	—	0.27	99186	C	0.20	—	0.58							
99148	C	0.13	—	0.20	99187	C	0.19	—	0.54							
99149	C	0.01	—	0.02	99188	C	0.23	—	0.53							
99150	C	<0.01	—	<0.01	99189	C	0.16	—	0.41							
99151	C	<0.01	—	<0.01	99190	C	0.18	—	0.48							
99152	C	<0.01	—	<0.01	99191	C	0.02	—	<0.01							
99153	C	0.02	—	<0.01	99192	C	0.14	—	0.35							
99154	C	0.03	—	0.01	99193	C	0.15	—	0.40							
99155	C	0.16	—	0.33	99194	C	0.13	—	0.36							
99156	C	0.35	—	0.36	Blk iPL	Z	<0.01	—	—							
99157	C	0.05	—	0.02	FA STDC	S	0.35	—	—							
99158	C	0.08	—	0.32	RE 99121	R	0.12	—	0.11							
99159	C	0.14	—	0.33	RE 99140	Pulp	R	0.01	—	0.01						

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Recheck m=x1000 %=Estimate % NS=No Sample C=C Core P=Pulp Z=Blk iPL S=Std Client R=Repeat

CERTIFICATE OF ANALYSIS

ID: J3J1693

Canada TEL
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[169311:20:29:30101703:003]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

60 Samples

Out: Oct 14, 2003 In: Oct 10, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	56	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B82100	1	Std iPL	Standard iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

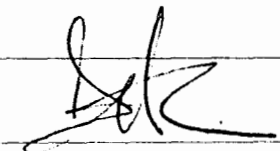
Document Distribution

1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	Ph:(604)683-0140 Fx:(604)683-0126 Em:smithib@attglobel.net
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph:(604)683-0140 Fx:(604)683-0126 Em:smithib@attglobel.net
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph:(604)683-0140 Fx:(604)683-0126 Em:rgs@uniserive.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3/4 Disk
DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3J1693

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project : Red Chris

Ship# 60 Samples

56=Core 4=Pulp 1=Blk iPL 1=Std iPL

[169311:23:43:30101703:005]

Out: Oct 14, 2003
In : Oct 10, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %		
95831	C	0.96	—	0.99	99259	C	0.10	—	0.11				
95832	C	0.35	—	0.34	99346	C	0.18	—	0.20				
95833	C	1.13	1.09	1.12	99347	C	0.26	—	0.32				
95834	C	0.70	—	0.80	99348	C	0.42	—	0.38				
95835	C	1.06	1.46	1.31	99349	C	0.46	—	0.44				
95836	C	1.23	1.24	1.44	99350	C	0.19	—	0.23				
95837	C	1.31	1.25	1.58	99351	C	0.36	—	0.44				
95838	C	0.90	—	0.87	99352	C	0.34	—	0.33				
95839	C	0.45	—	0.87	99353	C	0.25	—	0.28				
95840	Pulp	P	0.31	—	0.35	99354	C	0.28	—	0.35			
95841	C	0.49	—	0.59	99355	C	0.36	—	0.32				
95842	C	0.67	—	0.67	99356	C	0.30	—	0.32				
95843	C	0.50	—	0.50	99357	C	0.46	—	0.64				
97907	C	0.08	—	0.10	99358	C	0.42	—	0.46				
97908	C	0.12	—	0.15	99359	C	0.59	—	0.63				
97909	C	0.35	—	0.48	99360	Pulp	P	0.82	—	0.90			
97910	C	0.49	—	0.54	99361	C	0.38	—	0.30				
97911	C	0.68	—	1.15	99362	C	0.45	—	0.43				
97994	C	0.77	—	0.83	99363	C	0.60	—	0.57				
97995	C	0.77	—	0.66	99364	C	0.01	—	<0.01				
97996	C	1.98	1.94	2.44	99365	C	0.44	—	0.42				
97997	C	0.63	—	1.17	Blk iPL	Z	<0.01	—	—				
97998	C	0.41	—	0.32	Std iPL	Z	0.35	—	—				
97999	C	0.62	—	0.62	RE 95831	R	0.92	—	0.98				
98000	Pulp	P	0.30	—	0.35	RE 97995	R	0.73	—	0.65			
99235	C	0.13	—	0.16	RE 99259	R	0.09	—	0.10				
99236	C	0.15	—	0.18	RE 99364	R	0.01	—	<0.01				
99237	C	0.14	—	0.18									
99238	C	0.17	—	0.24									
99239	C	0.21	—	0.26									
99240	Pulp	P	0.01	—	0.02								
99241	C	0.10	—	0.17									
99242	C	0.15	—	0.20									
99243	C	0.25	—	0.33									
99244	C	0.28	—	0.34									
99255	C	0.23	—	0.31									
99256	C	0.21	—	0.25									
99257	C	0.24	—	0.27									
99258	C	0.39	—	0.32									

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL Z=Std iPL R=Repeat

CERTIFICATE OF ANALYSIS
iPL 03J1699

Canada 811
 Phone (604) 879-7878
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 Email iplat@telus.net
 [169913:07:18:30102003:002]

INTERNATIONAL PLASMA LABORATORY LTD

60 Samples Out: Oct 15, 2003 In: Oct 13, 2003

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	57	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

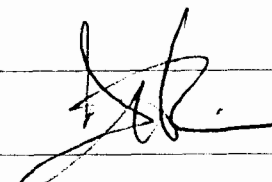
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Vancouver	Vancouver	Vancouver	0	0	0	0	0
B.C. V6C 2T6	B.C. V6C 2T6	B.C. V6C 2T6					
Canada	Canada	Canada					
Att: Account Payable	Att: Ian Smith	Att: Ron Simpson					
Ph: (604)683-0140	Ph: (604)683-0140	Ph: (604)683-0140					
Fx: (604)683-0126	Fx: (604)683-0126	Fx: (604)683-0126					
Em: smithib@attglobe1.net	Em: smithib@attglobe1.net	Em: rgs@uniserve.com					

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03J1699

Canada: 1 800 387 2323
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 Fax (604) 879 7898
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLACER LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

60 Samples
 Ship# 57=Core 3=Pulp 4=Repeat 1=Blk iPL [169913:07:18:30102003:002]

Out: Oct 15, 2003
 In : Oct 13, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
95819	C	1.95	2.11	1.57	97871	C	0.33	—	0.29		
95820 Pulp	P	0.56	—	0.53	97872	C	0.16	—	0.07		
95821	C	0.74	—	0.67	97873	C	0.12	—	0.06		
95822	C	0.45	—	0.62	97874	C	0.09	—	0.04		
95823	C	0.45	—	0.45	97875	C	0.21	—	0.07		
95824	C	0.33	—	0.36	97876	C	0.14	—	0.04		
95825	C	0.38	—	0.39	97877	C	0.23	—	0.09		
95826	C	0.18	—	0.30	97878	C	0.34	—	0.12		
95827	C	0.20	—	0.89	97879	C	0.33	—	0.12		
95828	C	0.09	—	0.27	97880 Pulp	P	0.28	—	0.34		
95829	C	0.30	—	0.27	97881	C	0.21	—	0.10		
95830	C	0.18	—	2.43	97882	C	0.38	—	0.13		
97844	C	0.13	—	0.13	97883	C	0.30	—	0.10		
97845	C	0.11	—	0.11	97884	C	0.30	—	0.12		
97846	C	0.16	—	0.14	97885	C	0.27	—	0.10		
97847	C	0.17	—	0.16	97886	C	0.21	—	0.08		
97848	C	0.16	—	0.14	97887	C	0.18	—	0.09		
97849	C	0.10	—	0.11	97888	C	0.09	—	0.05		
97850	C	0.10	—	0.11	97889	C	0.11	—	0.08		
97851	C	0.12	—	0.12	97890	C	0.12	—	0.09		
97852	C	0.12	—	0.13	97891	C	0.19	—	0.12		
97853	C	0.19	—	0.19	RE 95819	R	2.10	—	1.58		
97854	C	0.20	—	0.20	RE 97851	R	0.12	—	0.12		
97855	C	0.13	—	0.12	RE 97871	R	0.32	—	0.29		
97856	C	0.21	—	0.19	RE 97890	R	0.12	—	0.08		
97857	C	0.15	—	0.15	Blank iPL	Z	<0.01	—	—		
97858	C	0.15	—	0.15	FA StdC	Z	0.31	—	—		
97859	C	0.17	—	0.16	FA_StdC REF	Z	0.33	0.33	—		
97860 Pulp	P	0.56	—	0.55							
97861	C	0.20	—	0.19							
97862	C	0.18	—	0.17							
97863	C	0.12	—	0.11							
97864	C	0.11	—	0.10							
97865	C	0.14	—	0.08							
97866	C	0.14	—	0.14							
97867	C	0.28	—	0.27							
97868	C	0.16	—	0.15							
97869	C	0.20	—	0.21							
97870	C	0.30	—	0.24							

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

0.01 0.07 0.01
 9999.00 9999.00 100.00
 FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL

CERTIFICATE OF ANALYSIS
iPL 53J1700

Company: TEL
Phone: (604) 879-7878
Fax: (604) 879-7898
Email: iplab@telus.net
[170016:46:47:30102103:003]

INTERNATIONAL DETAIL LABORATORY LTD.

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

75 Samples

Out: Oct 15, 2003 In: Oct 13, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	71	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

Document Distribution

1 Red Chris Development Company Ltd. EN RT CC IN FX
488 - 625 Howe Street 1 2 0 2 0
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 0 0 0
Canada
Att: Account Payable Ph: (604)683-0140
Fx: (604)683-0126
Em: smithib@attglobal.net

2 bcMetals EN RT CC IN FX
488 - 625 Howe Street 1 2 1 2 1
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ian Smith Ph: (604)683-0140
Fx: (604)683-0126
Em: smithib@attglobal.net

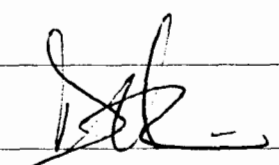
3 bcMetals EN RT CC IN FX
488 - 625 Howe Street 1 2 1 2 1
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ron Simpson Ph: (604)683-0140
Fx: (604)683-0126
Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk
DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

ID: 03J1700

Tel: (604) 879-7879
 Fax: (604) 879-7898
 Email: iplab@telus.net

INTERNATIONAL PLASMA LABORATORIES LTD.

Client : bcMetals
 Project: Red Chris

Ship# 75 Samples

71=Core 4=Pulp 1=Blk iPL 4=Repeat

[170016:46:47:30102103:003]

Out: Oct 15, 2003
 In : Oct 13, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
97912 C	0.01	---	<0.01	99199 C	0.32	---	0.58	RE 99199 R	0.30	---	0.59
97913 C	0.01	---	<0.01	99200 Pulp P	0.30	---	0.34	RE 99218 R	0.11	---	0.18
97914 C	0.01	---	<0.01	99201 C	0.39	---	0.79				
97915 C	0.01	---	<0.01	99202 C	0.29	---	0.64				
97916 C	0.01	---	<0.01	99203 C	0.32	---	0.66				
97917 C	0.01	---	0.01	99204 C	0.22	---	0.57				
97918 C	0.01	---	0.02	99205 C	0.33	---	0.68				
97919 C	0.01	---	0.01	99206 C	0.23	---	0.71				
97920 Pulp P	0.55	---	0.53	99207 C	0.29	---	0.47				
97921 C	0.02	---	0.02	99208 C	0.24	---	0.58				
97922 C	0.02	---	0.03	99209 C	0.28	---	0.52				
97923 C	0.05	---	0.09	99210 C	0.41	---	0.82				
97924 C	0.05	---	0.09	99211 C	0.24	---	0.56				
97925 C	0.01	---	0.04	99212 C	0.23	---	0.56				
97926 C	0.05	---	0.11	99213 C	0.22	---	0.49				
97927 C	0.02	---	0.07	99214 C	0.29	---	0.64				
97928 C	0.06	---	0.08	99215 C	0.31	---	0.68				
97929 C	0.13	---	0.13	99216 C	0.15	---	0.24				
97930 C	0.02	---	0.05	99217 C	0.16	---	0.26				
97931 C	0.01	---	0.01	99218 C	0.13	---	0.18				
97950 C	0.32	---	0.36	99219 C	0.23	---	0.26				
97951 C	0.57	---	0.31	99220 Pulp P	0.74	---	0.87				
97952 C	0.61	---	0.25	99221 C	0.19	---	0.23				
97953 C	0.37	---	0.51	99222 C	0.16	---	0.20				
97954 C	0.42	---	0.51	99223 C	0.13	---	0.17				
97955 C	0.40	---	0.50	99224 C	0.13	---	0.18				
97956 C	0.45	---	0.48	99225 C	0.29	---	0.44				
97957 C	0.51	---	0.54	99226 C	0.11	---	0.17				
97958 C	0.50	---	0.63	99227 C	0.14	---	0.20				
97959 C	0.41	---	0.68	99228 C	0.22	---	0.24				
97960 Pulp P	0.77	---	0.87	99229 C	0.25	---	0.32				
97961 C	0.45	---	0.54	99230 C	0.20	---	0.28				
97962 C	0.45	---	0.62	99231 C	0.19	---	0.26				
97963 C	0.38	---	0.63	99232 C	0.16	---	0.20				
97964 C	0.39	---	0.69	99233 C	0.19	---	0.27				
99195 C	0.61	---	0.43	99234 C	0.15	---	0.17				
99196 C	0.21	---	0.68	Blk iPL Z	<0.01	---	<0.01				
99197 C	0.31	---	0.01	RE 97912 R	0.01	---	<0.01				
99198 C	0.02	---	0.64	RE 97931 R	0.01	---	0.01				

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %e=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL R=Repeat

CERTIFICATE OF ANALYSIS

iPL 3J1702

Canada
Phone (604) 979-7800
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Email: ipl@attglobal.net

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

76 Samples

Out: Oct 18, 2003 In: Oct 13, 2003

[170213:57:16:30102203:004]

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	72	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

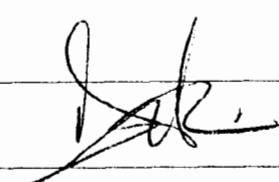
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2	bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net
3	bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

id 03J1702

INTERNATIONAL PLASMA LABORATORY LTD

Phone (604) 870-2222
Fax (604) 870-2222
Email iplab@telus.net

Client : bcMetals
Project: Red Chris

76 Samples
72=Core 4=Pulp 4=Repeat 1=Blk iPL 1 [170213:57:16:30102203:004]

Out: Oct 18, 2003
In : Oct 13, 2003
Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
97892	C	0.25	—	0.15	97972	C	1.31	1.31	1.91	RE 97972	R	1.38	—	1.95
97893	C	0.23	—	0.14	99245	C	0.17	—	0.19	RE 99268	R	0.12	—	0.28
97894	C	0.18	—	0.10	99246	C	0.11	—	0.15	Blank iPL	Z	<0.01	—	<0.01
97895	C	0.28	—	0.15	99247	C	0.23	—	0.29	FA StdC	Z	0.32	—	—
97896	C	0.24	—	0.14	99248	C	0.32	—	0.32	FA_StdC REF	Z	0.33	0.33	—
97897	C	0.23	—	0.15	99249	C	0.27	—	0.30					
97898	C	0.24	—	0.15	99250	C	0.16	—	0.19					
97899	C	0.13	—	0.09	99251	C	0.18	—	0.23					
97900 Pulp	P	0.68	—	0.87	99252	C	0.31	—	0.38					
97901	C	0.11	—	0.12	99253	C	0.29	—	0.31					
97902	C	0.19	—	0.14	99254	C	0.14	—	0.18					
97903	C	0.28	—	0.15	99260 Pulp	P	0.66	—	0.86					
97904	C	0.16	—	0.11	99261	C	0.13	—	<0.01					
97905	C	0.09	—	0.10	99262	C	0.35	—	0.24					
97906	C	0.05	—	0.06	99263	C	0.32	—	0.30					
97932	C	0.01	—	0.01	99264	C	0.51	—	0.33					
97933	C	0.01	—	0.01	99265	C	0.50	—	0.45					
97934	C	0.02	—	0.03	99266	C	0.12	—	0.21					
97935	C	0.31	—	0.44	99267	C	0.13	—	0.41					
97936	C	0.23	—	0.38	99268	C	0.12	—	0.27					
97937	C	0.40	—	0.64	99269	C	0.11	—	0.36					
97938	C	0.33	—	0.47	99270	C	0.02	—	0.01					
97939	C	0.29	—	0.46	99271	C	0.24	—	0.52					
97940 Pulp	P	0.28	—	0.34	99272	C	0.20	—	0.44					
97941	C	0.71	—	0.83	99273	C	0.21	—	0.47					
97942	C	0.55	—	0.87	99274	C	0.23	—	0.54					
97943	C	1.70	1.44	1.83	99275	C	0.18	—	0.24					
97944	C	1.06	1.00	1.33	99276	C	0.19	—	0.31					
97945	C	0.50	—	0.65	99277	C	0.16	—	0.25					
97946	C	0.65	—	0.75	99278	C	0.11	—	0.49					
97947	C	0.85	—	1.08	99279	C	0.15	—	0.41					
97948	C	0.84	—	0.91	99280 Pulp	P	0.01	—	0.01					
97949	C	0.99	—	1.38	99281	C	0.02	—	<0.01					
97966	C	1.34	1.29	1.56	99282	C	0.02	—	<0.01					
97967	C	1.68	1.70	2.25	99283	C	0.03	—	<0.01					
97968	C	1.85	1.80	2.51	99284	C	0.03	—	<0.01					
97969	C	0.84	—	1.30	99285	C	0.08	—	0.04					
97970	C	0.73	—	0.99	RE 97892	R	0.26	—	0.15					
97971	C	1.97	1.93	2.52	RE 97936	R	0.26	—	0.39					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03J1703

Canada V6C 2T6
 Phone (604) 879-7878
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 Email iplab@telus.net
 [170321:32:46:30102503:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

75 Samples

Out: Oct 25, 2003 In: Oct 13, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	71	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	% Cu Assay by AA/ICP in %	Copper	0.01	100.00

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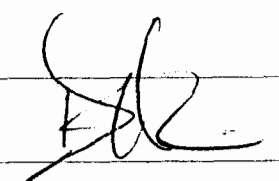
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B.C. V6C 2T6
Canada
Att: Account Payable</p> | <p>EN RT CC IN FX
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DL 3D EM BT BL
0 0 0 0 0</p> <p>Ph: (604)683-0140
Fx: (604)683-0126
Em: smithib@attglobe1.net</p> |
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488 - 625 Howe Street
Vancouver
B.C. V6C 2T6
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Att: Ian Smith</p> | <p>EN RT CC IN FX
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DL 3D EM BT BL
0 0 1 0 0</p> <p>Ph: (604)683-0140
Fx: (604)683-0126
Em: smithib@attglobe1.net</p> |
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488 - 625 Howe Street
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Att: Ron Simpson</p> | <p>EN RT CC IN FX
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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03J1704

Canada
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [170417:36:03:30102703:005]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

72 Samples

Out: Oct 18, 2003 In: Oct 13, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	68	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

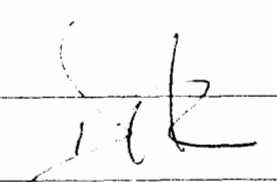
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Att: Account Payable | EN RT CC IN FX
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DL 3D EM BT BL
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488 - 625 Howe Street
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B.C. V6C 2T6
Canada
Att: Ian Smith | EN RT CC IN FX
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DL 3D EM BT BL
0 0 1 0 0 | Ph:(604)683-0140
Fx:(604)683-0126
Em:smithib@attglobel.net |
| 3 bcMetals
488 - 625 Howe Street
Vancouver
B.C. V6C 2T6
Canada
Att: Ron Simpson | EN RT CC IN FX
1 2 1 2 1
DL 3D EM BT BL
0 0 1 0 0 | Ph:(604)683-0140
Fx:(604)683-0126
Em:rgs@uniserve.com |

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3J1704

INTERNATIONAL PLASMA LABORATORY LTD

Canada v. 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 1

Client : bcMetals
 Project: Red Chris

72 Samples
 68=Core 4=Pulp 4=Repeat 1=Blk iPL 1 [170417:36:03:30102703:005]

Out: Oct 18, 2003
 In : Oct 13, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
95854	C	0.26	—	0.42	95972	C	0.04	—	0.05	FA_StdC REF	Z	0.33	0.33	—
95855	C	0.23	—	0.36	95973	C	0.10	—	0.12					
95856	C	0.14	—	0.23	95974	C	0.20	—	0.24					
95857	C	0.15	—	0.21	95975	C	1.07	1.00	1.50					
95858	C	0.13	—	0.17	95976	C	0.41	—	0.55					
95859	C	0.07	—	0.15	95977	C	1.09	1.00	1.15					
95860	Pulp	0.73	—	0.87	95978	C	1.70	1.44	2.09					
95861	C	0.03	—	0.04	95979	C	5.79	5.08	3.87					
95862	C	0.08	—	0.15	95980	Pulp	0.73	—	0.84					
95863	C	0.13	—	0.29	95981	C	1.66	1.60	2.43					
95864	C	0.14	—	0.28	95982	C	2.69	2.62	2.82					
95865	C	0.16	—	0.32	95983	C	4.56	4.42	3.31					
95866	C	0.18	—	0.41	95984	C	4.30	4.44	3.54					
95867	C	0.10	—	0.26	95985	C	2.38	2.87	2.73					
95868	C	0.07	—	0.18	95986	C	1.72	1.61	1.99					
95874	C	0.10	—	0.16	95987	C	1.67	1.94	3.08					
95875	C	0.06	—	0.10	95988	C	1.19	1.08	1.18					
95876	C	0.06	—	0.11	95989	C	0.90	—	1.43					
95877	C	0.04	—	0.06	95990	C	0.50	—	0.96					
95878	C	0.05	—	0.09	95991	C	1.45	1.22	1.42					
95879	C	0.09	—	0.13	95992	C	1.89	1.79	2.30					
95880	Pulp	0.67	—	0.53	95993	C	2.62	2.98	3.33					
95881	C	0.05	—	0.06	95994	C	1.88	2.20	2.80					
95882	C	0.05	—	0.04	95995	C	1.60	2.00	2.02					
95883	C	0.13	—	0.14	95996	C	1.76	1.81	2.05					
95884	C	0.06	—	0.07	95997	C	1.91	1.82	2.24					
95885	C	0.04	—	0.04	95998	C	3.66	3.80	3.98					
95886	C	0.06	—	0.08	95999	C	3.41	3.29	3.74					
95887	C	0.10	—	0.10	96000	Pulp	0.70	—	0.85					
95888	C	0.05	—	0.07	96001	C	1.94	1.96	2.42					
95889	C	0.10	—	0.15	96002	C	2.12	2.07	2.20					
95890	C	0.05	—	0.08	96003	C	0.89	—	1.21					
95891	C	0.06	—	0.10	96004	C	0.98	—	1.24					
95892	C	0.12	—	0.13	RE 95854	R	0.26	—	0.42					
95893	C	0.12	—	0.17	RE 95878	R	0.07	—	0.09					
95968	C	0.08	—	0.09	RE 95972	R	0.03	—	0.05					
95969	C	0.10	—	0.09	RE 95991	R	1.23	—	1.42					
95970	C	0.04	—	0.01	Blank iPL	Z	<0.01	—	—					
95971	C	0.08	—	0.05	FA_StdC	Z	0.35	—	—					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 33J1705

Canada v. 1.0E1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [170517:36:22:30102703:005]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

66 Samples

Out: Oct 18, 2003 In: Oct 13, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

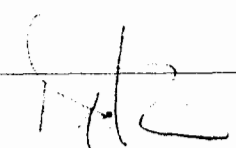
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#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

1	Red Chris Development Company Ltd.	EN RT CC IN FX	1 2 0 2 0
	488 - 625 Howe Street	DL 3D EM BT BL	
	Vancouver		
	B.C. V6C 2T6		0 0 0 0 0
	Canada		
	Att: Account Payable	Ph: (604)683-0140	
		Fx: (604)683-0126	
		Em: smithib@attglobal.net	
2	bcMetals	EN RT CC IN FX	1 2 1 2 1
	488 - 625 Howe Street	DL 3D EM BT BL	
	Vancouver		
	B.C. V6C 2T6		0 0 1 0 0
	Canada		
	Att: Ian Smith	Ph: (604)683-0140	
		Fx: (604)683-0126	
		Em: smithib@attglobal.net	
3	bcMetals	EN RT CC IN FX	1 2 1 2 1
	488 - 625 Howe Street	DL 3D EM BT BL	
	Vancouver		
	B.C. V6C 2T6		0 0 1 0 0
	Canada		
	Att: Ron Simpson	Ph: (604)683-0140	
		Fx: (604)683-0126	
		Em: rgs@uniserve.com	

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3J1705

Canada 1A 2F1

Phone (604) 879-7878

Fax (604) 879-7898

Email iplab@telus.net

Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

66 Samples

Ship#

62=Core 4=Pulp 4=Repeat 1=Blk iPL 1 [170517:36:22:30102703:005]

Out: Oct 18, 2003

In : Oct 13, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
95897	C	0.05	—	0.02	95936	C	1.09	1.11	1.57			
95898	C	0.04	—	0.02	95937	C	0.86	—	1.09			
95899	C	0.07	—	0.04	95938	C	0.63	—	0.79			
95900 Pulp	P	0.29	—	0.33	95939	C	0.55	—	0.59			
95901	C	0.06	—	0.04	95940 Pulp	P	0.74	—	0.84			
95902	C	0.10	—	0.05	95941	C	0.41	—	0.56			
95903	C	0.11	—	0.09	95942	C	0.41	—	0.64			
95904	C	0.10	—	0.08	95943	C	0.57	—	0.61			
95905	C	0.07	—	0.02	95944	C	0.38	—	0.50			
95906	C	0.16	—	0.05	95945	C	0.30	—	0.38			
95907	C	0.11	—	0.06	95946	C	0.40	—	0.45			
95908	C	0.17	—	0.05	95947	C	0.27	—	0.38			
95909	C	0.11	—	0.04	95948	C	0.15	—	0.25			
95910	C	0.26	—	0.08	95949	C	0.05	—	0.05			
95911	C	0.18	—	0.06	95950	C	0.04	—	0.05			
95912	C	0.18	—	0.09	95951	C	0.04	—	0.05			
95913	C	0.13	—	0.07	95952	C	0.05	—	0.06			
95914	C	0.12	—	0.06	95953	C	0.06	—	0.06			
95915	C	0.12	—	0.07	95954	C	0.17	—	0.17			
95916	C	0.16	—	0.07	95955	C	0.13	—	0.11			
95917	C	0.15	—	0.09	95956	C	0.11	—	0.12			
95918	C	0.07	—	0.04	95957	C	0.15	—	0.18			
95919	C	0.04	—	0.02	95958	C	0.23	—	0.23			
95920 Pulp	P	0.61	—	0.51	95959	C	0.19	—	0.23			
95921	C	0.03	—	0.03	95960 Pulp	P	0.54	—	0.52			
95922	C	0.14	—	0.15	95961	C	0.24	—	0.24			
95923	C	0.43	—	0.61	95962	C	0.18	—	0.19			
95924	C	1.86	1.80	2.65	RE 95897	R	0.06	—	0.02			
95925	C	2.08	2.01	2.63	RE 95916	R	0.15	—	0.07			
95926	C	1.89	1.98	2.54	RE 95936	R	1.02	—	1.47			
95927	C	1.96	1.97	3.04	RE 95955	R	0.12	—	0.11			
95928	C	1.41	1.28	1.54	Blank	Z	<0.01	—	—			
95929	C	1.39	1.29	1.54	StdC	Z	0.33	—	—			
95930	C	2.14	1.98	2.34								
95931	C	2.09	2.14	2.44								
95932	C	1.95	2.20	2.55								
95933	C	1.63	1.77	1.91								
95934	C	1.41	1.56	1.50								
95935	C	1.26	1.52	1.39								

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

0.01 0.07 0.01
 9999.00 9999.00 100.00
 FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 55J1706

Canada V51 of 1
Phone (604) 879-7878
Fax (604) 879-7898
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Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

76 Samples
73=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [170614:39:29:30102803:004]

Out: Oct 18, 2003
In : Oct 13, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
95844	C	0.81	—	0.86	98028	C	0.25	—	0.23	RE 98028	R	0.24	—	0.22
95845	C	0.78	—	0.97	98029	C	0.20	—	0.21	RE 98047	R	0.37	—	0.28
95846	C	2.27	2.40	2.03	98030	C	0.17	—	0.20	Blank	Z	<0.01	—	<0.01
95847	C	0.91	—	1.05	98031	C	0.25	—	0.43	FA_STDC	Z	0.32	—	—
95848	C	2.70	2.83	2.49	98032	C	0.20	—	0.22					
95849	C	2.62	3.21	2.65	98033	C	0.31	—	0.51					
95850	C	1.99	2.37	1.56	98034	C	0.14	—	0.17					
95851	C	3.18	3.88	2.08	98035	C	0.23	—	0.37					
95852	C	3.14	3.73	1.82	98036	C	0.24	—	0.41					
95853	C	3.78	3.65	1.82	98037	C	0.22	—	0.24					
95963	C	0.18	—	0.20	98038	C	0.20	—	0.33					
95964	C	0.17	—	0.17	98039	C	0.27	—	0.24					
95965	C	0.13	—	0.13	98040 Pulp	P	0.30	—	0.34					
95966	C	0.24	—	0.23	98041	C	0.25	—	0.43					
95967	C	0.13	—	0.13	98042	C	0.35	—	0.38					
97973	C	2.44	2.67	2.76	98043	C	0.30	—	0.32					
97974	C	1.75	2.39	1.92	98044	C	0.18	—	0.27					
97975	C	1.20	1.17	1.52	98045	C	0.36	—	0.51					
97976	C	0.79	—	0.91	98046	C	0.18	—	0.28					
97977	C	0.95	—	1.21	98047	C	0.38	—	0.28					
97978	C	1.52	1.95	1.69	98048	C	0.50	—	0.25					
98010	C	0.38	—	0.30	98049	C	0.63	—	0.44					
98011	C	0.38	—	0.30	98050	C	0.85	—	0.48					
98012	C	0.41	—	0.40	98051	C	2.29	2.76	0.40					
98013	C	0.48	—	0.57	98052	C	0.48	—	0.33					
98014	C	0.46	—	0.49	98053	C	0.60	—	0.36					
98015	C	0.35	—	0.47	98054	C	0.46	—	0.27					
98016	C	0.43	—	0.53	98055	C	0.48	—	0.33					
98017	C	0.30	—	0.34	98056	C	0.47	—	0.32					
98018	C	0.34	—	0.25	98057	C	0.32	—	0.25					
98019	C	0.38	—	0.45	98058	C	0.83	—	0.32					
98020 Pulp	P	0.70	—	0.86	98059	C	0.11	—	0.07					
98021	C	0.40	—	0.41	98060 Pulp	P	0.57	—	0.52					
98022	C	0.33	—	0.41	98061	C	0.33	—	0.24					
98023	C	0.61	—	0.68	98062	C	0.41	—	0.31					
98024	C	0.49	—	0.49	98063	C	0.26	—	0.27					
98025	C	0.15	—	0.18	98064	C	0.25	—	0.22					
98026	C	0.14	—	0.21	RE 95844	R	0.71	—	0.84					
98027	C	0.18	—	0.22	RE 97977	R	0.89	—	1.17					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Rec'check m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 63J1707

Canada 25, 1
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 Fax (604) 879-7898
 Email iplab@telus.net
 [170719:53:31:30102403:003]

INTERNATIONAL PLASMA LABORATORY LTD.

63 Samples

Out: Oct 22, 2003 In: Oct 13, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	61	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	2	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

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 B.C. V6C 2T6 0 0 0 0 0
 Canada
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 Fx:(604)683-0126
 Em:smithib@attglobal.net

2 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ian Smith Ph:(604)683-0140
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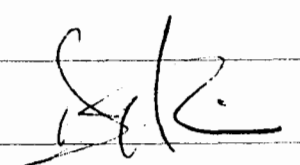
3 bcMetals EN RT CC IN FX
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 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ron Simpson Ph:(604)683-0140
 Fx:(604)683-0126
 Em:rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J1713

Vancouver
 Canada
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [171322:30:20:30102403:004]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

77 Samples

Out: Oct 18, 2003 In: Oct 15, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	73	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

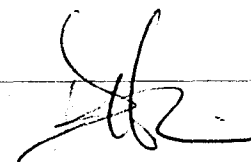
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#	Code	Method	Units	Description	Element	Limit Low	Limit High
1	Red Chris Development Company Ltd.	EN RT CC IN FX	##				
	488 - 625 Howe Street	1 2 0 2 0					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 0 0 0					
	Canada						
	Att: Account Payable	Ph:(604)683-0140					
		Fx:(604)683-0126					
		Em:smithib@attglobal.net					
2	bcMetals	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 1 0 0					
	Canada						
	Att: Ian Smith	Ph:(604)683-0140					
		Fx:(604)683-0126					
		Em:smithib@attglobal.net					
3	bcMetals	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 1 0 0					
	Canada						
	Att: Ron Simpson	Ph:(604)683-0140					
		Fx:(604)683-0126					
		Em:rgs@uniserve.com					

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J1713

INTERNATIONAL PLASMA LABORATORY LTD.

Address: 1000
 Canada Rd.
 Phone (604) 879-7808
 Fax (604) 879-7808
 Email: iplab@telus.net

Client : bcMetals
 Project: Red Chris

Ship# 77 Samples
 73=Core 4=Pulp 4=Repeat 1=Blk iPL 1 [171322:30:20:30102403:004]

Out: Oct 18, 2003
 In : Oct 15, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
99366	C	0.48	—	0.52	99405	C	0.97	—	0.87	RE 99385	R	0.56	—	0.46
99367	C	0.34	—	0.26	99406	C	0.90	—	0.06	RE 99405	R	0.82	—	0.85
99368	C	0.54	—	0.46	99407	C	1.05	—	0.65	RE 99424	R	0.01	—	0.07
99369	C	0.50	—	0.49	99408	C	0.19	—	0.80	Blank iPL	Z	<0.01	—	<0.01
99370	C	0.28	—	0.27	99409	C	0.08	—	0.15	FA_StdC	Z	0.33	—	—
99371	C	0.45	—	0.46	99410	C	0.13	—	0.15	FA_StdC REF	Z	0.33	0.33	—
99372	C	0.30	—	0.33	99411	C	0.08	—	0.23					
99373	C	0.36	—	0.31	99412	C	0.05	—	0.16					
99374	C	0.43	—	0.39	99413	C	0.02	—	0.02					
99375	C	0.28	—	0.26	99414	C	0.01	—	<0.01					
99376	C	0.40	—	0.38	99415	C	0.03	—	<0.01					
99377	C	0.44	—	0.39	99416	C	0.02	—	<0.01					
99378	C	0.51	—	0.57	99417	C	0.02	—	<0.01					
99379	C	0.28	—	0.36	99418	C	0.02	—	<0.01					
99380 Pulp	P	0.56	—	0.54	99419	C	0.04	—	<0.01					
99381	C	0.35	—	0.31	99420 Pulp	P	0.57	—	0.90					
99382	C	0.53	—	0.53	99421	C	0.01	—	<0.01					
99383	C	0.54	—	0.51	99422	C	0.02	—	<0.01					
99384	C	0.43	—	0.37	99423	C	0.01	—	<0.01					
99385	C	0.57	—	0.46	99424	C	0.03	—	0.07					
99386	C	0.37	—	0.32	99425	C	0.04	—	0.06					
99387	C	0.37	—	0.35	99426	C	0.05	—	0.13					
99388	C	0.31	—	0.29	99427	C	0.06	—	0.11					
99389	C	0.44	—	0.53	99428	C	0.06	—	0.10					
99390	C	0.37	—	0.42	99429	C	0.08	—	0.16					
99391	C	0.58	—	0.57	99430	C	0.04	—	0.17					
99392	C	0.47	—	0.54	99431	C	0.16	—	0.36					
99393	C	0.40	—	0.46	99432	C	0.10	—	0.15					
99394	C	0.05	—	0.03	99433	C	0.08	—	0.18					
99395	C	0.04	—	0.04	99434	C	0.13	—	0.28					
99396	C	0.04	—	0.04	99435	C	0.13	—	0.23					
99397	C	0.35	—	0.36	99436	C	0.14	—	0.31					
99398	C	0.34	—	0.19	99437	C	0.13	—	0.22					
99399	C	<0.01	—	<0.01	99438	C	0.12	—	0.23					
99400 Pulp	P	0.28	—	0.35	99439	C	0.13	—	0.28					
99401	C	0.21	—	0.29	99440 Pulp	P	<0.01	—	0.02					
99402	C	0.10	—	<0.01	99441	C	0.11	—	0.31					
99403	C	1.07	1.26	1.09	99442	C	0.09	—	0.35					
99404	C	0.78	—	0.93	RE 99366	R	0.60	—	0.50					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS
iPL 03J1714

Canada
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Fax (604) 879-7898
Email iptab@telus.net
[171422:29:59:30102403:004]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

35 Samples

Out: Oct 22, 2003 In: Oct 15, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	33	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	2	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	2	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

Document Distribution

1 Red Chris Development Company Ltd. EN RT CC IN FX
488 - 625 Howe Street 1 2 0 2 0
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 0 0 0
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488 - 625 Howe Street 1 2 1 2 1
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3 bcMetals EN RT CC IN FX
488 - 625 Howe Street 1 2 1 2 1
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ron Simpson Ph:(604)683-0140
Fx:(604)683-0126
Em:rgs@uniserve.com

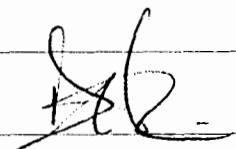
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk

DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 35J1714

Canada
 Phone (504) 879-7878
 Fax (504) 879-7898
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

Ship#

35 Samples

33=Core 2=Pulp 2=Repeat 1=Blk iPL 2 [171422:29:59:30102403:004]

Out: Oct 22, 2003
In : Oct 15, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
99488	C	0.21	—	0.37	FA_STDC REF	Z	0.33	0.33	—			
99489	C	0.14	—	0.14								
99490	C	0.23	—	0.35								
99491	C	0.22	—	0.26								
99492	C	0.98	—	0.11								
99493	C	0.27	—	0.25								
99494	C	0.35	—	0.57								
99495	C	0.91	—	1.80								
99496	C	0.72	—	1.03								
99497	C	1.19	1.21	1.29								
99498	C	1.31	1.52	1.60								
99499	C	1.51	1.68	1.40								
99500 Pulp	P	0.68	—	0.92								
99501	C	1.60	1.94	1.41								
99502	C	2.24	2.17	1.69								
99503	C	0.92	1.08	1.40								
99504	C	4.37	4.33	4.26								
99505	C	3.38	3.66	3.85								
99506	C	2.90	3.14	3.96								
99507	C	0.65	—	0.85								
99508	C	0.05	—	0.05								
99509	C	0.11	—	0.13								
99510	C	0.10	—	0.08								
99511	C	0.54	—	0.86								
99512	C	1.11	1.18	1.06								
99513	C	0.86	—	1.09								
99514	C	0.74	—	0.69								
99515	C	0.60	—	0.59								
99516	C	0.43	—	0.61								
99517	C	0.49	—	0.49								
99518	C	0.77	—	0.69								
99519	C	0.77	—	0.78								
99520 Pulp	P	0.51	—	0.55								
99521	C	0.77	—	0.53								
99522	C	1.26	1.21	0.71								
RE 99488	R	0.24	—	0.38								
RE 99507	R	0.66	—	0.85								
Blank	Z	<0.01	—	<0.01								
FA_STDC	Z	0.33	—	—								

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

Canada
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 Fax (604) 879-7898
 Email iplab@telus.net
 [172617:55:37:30102203:004]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

112 Samples

Out: Oct 22, 2003 In: Oct 17, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	107	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	5	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	6	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

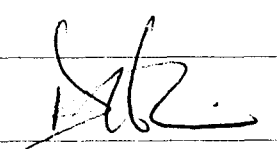
Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

Document Distribution

- 1 Red Chris Development Company Ltd. EN RT CC IN FX
 488 - 625 Howe Street 1 2 0 2 0
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 0 0 0
 Canada
 Att: Account Payable Ph:(604)683-0140
 Fx:(604)683-0126
 Em:smithib@attglobal.net
- 2 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ian Smith Ph:(604)683-0140
 Fx:(604)683-0126
 Em:smithib@attglobal.net
- 3 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ron Simpson Ph:(604)683-0140
 Fx:(604)683-0126
 Em:rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00



INTERIM/PARTIAL REPORT S OF OCT 22, 2003 17:55:38

iPL 3J1726

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email ipplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project : Red Chris

112 Samples

Ship# 107=Core 5=Pulp 6=Repeat 1=Blk iPL 1 [172617:55:37:30102203:004]

Out: Oct 22, 2003
In : Oct 17, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Sample Name	Au g/mt	Au g/mt	Sample Name	Au g/mt	Au g/mt	Sample Name	Au g/mt	Au g/mt	
94001	C	0.05	---	94040	Pulp	P	0.56	---	94079	C	0.04	---
94002	C	0.41	---	94041	C	0.43	---	94080	Pulp	P	0.68	---
94003	C	0.03	---	94042	C	0.33	---	94081	C	0.14	---	
94004	C	0.06	---	94043	C	0.50	---	94082	C	0.13	---	
94005	C	0.05	---	94044	C	0.46	---	94083	C	0.08	---	
94006	C	0.08	---	94045	C	0.41	---	94084	C	0.12	---	
94007	C	0.07	---	94046	C	0.48	---	94085	C	0.12	---	
94008	C	0.07	---	94047	C	0.52	---	94086	C	0.18	---	
94009	C	0.17	---	94048	C	0.50	---	94087	C	0.23	---	
94010	C	0.20	---	94049	C	0.10	---	94088	C	0.19	---	
94011	C	0.64	---	94050	C	0.09	---	94089	C	0.59	---	
94012	C	1.04	1.17	94051	C	0.09	---	94090	C	0.27	---	
94013	C	1.01	1.47	94052	C	0.07	---	94091	C	0.57	---	
94014	C	1.16	1.37	94053	C	0.14	---	94092	C	0.73	---	
94015	C	1.74	2.17	94054	C	0.11	---	94093	C	1.35	1.40	
94016	C	1.33	1.55	94055	C	0.05	---	94094	C	2.45	3.09	
94017	C	0.73	---	94056	C	0.06	---	94095	C	2.18	2.44	
94018	C	1.77	1.87	94057	C	0.06	---	94096	C	1.25	1.38	
94019	C	1.43	1.58	94058	C	0.04	---	94097	C	1.30	1.48	
94020	Pulp	P	0.76	---	94059	C	0.11	---	94098	C	2.76	3.02
94021	C	1.98	2.05	94060	Pulp	P	0.28	---	94099	C	3.14	2.86
94022	C	2.62	2.76	94061	C	0.04	---	94100	Pulp	P	0.53	---
94023	C	2.65	3.09	94062	C	0.05	---	94101	C	1.62	1.79	
94024	C	3.67	4.23	94063	C	0.03	---	94102	C	0.92	---	
94025	C	3.57	3.84	94064	C	0.04	---	94103	C	0.64	---	
94026	C	2.58	2.57	94065	C	0.08	---	94104	C	0.74	---	
94027	C	1.95	2.19	94066	C	0.10	---	94105	C	0.48	---	
94028	C	1.73	2.42	94067	C	0.05	---	94106	C	0.35	---	
94029	C	1.02	1.18	94068	C	0.15	---	94107	C	0.49	---	
94030	C	0.90	---	94069	C	0.10	---	94108	C	0.60	---	
94031	C	2.02	2.07	94070	C	0.06	---	94109	C	0.50	---	
94032	C	1.47	1.55	94071	C	0.10	---	94110	C	0.69	---	
94033	C	1.01	1.24	94072	C	0.13	---	94111	C	0.17	---	
94034	C	0.82	---	94073	C	0.13	---	94112	C	0.07	---	
94035	C	0.92	---	94074	C	0.11	---	RE 94001	R	0.05	---	
94036	C	0.60	---	94075	C	0.10	---	RE 94020	Pulp	R	0.69	---
94037	C	0.64	---	94076	C	0.06	---	RE 94040	Pulp	R	0.51	---
94038	C	0.67	---	94077	C	0.13	---	RE 94059	R	0.08	---	
94039	C	0.65	---	94078	C	0.13	---	RE 94079	R	0.04	---	

Min Limit 0.01 0.07 0.01 0.07 0.01 0.07 0.01 0.07
 Max Reported* 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00
 Method FA/AAS FAGrav FA/AAS FAGrav FA/AAS FAGrav FA/AAS FAGrav

---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

INTERIM/PARTIAL REPORT - S OF OCT 22, 2003 17:44:52
iPL 3J1729

Capacity: 401
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [172917:44:52:30102203:001]

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

144 Samples Out: Oct 22, 2003 In: Oct 17, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	137	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	7	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	8	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

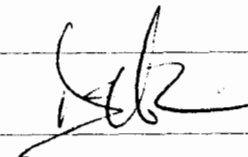
Analysis: Au(FA/AAS) Assay Cu / Every 20th send to ALS

Document Distribution

1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	##	Code	Method	Units	Description	Element	Limit Low	Limit High
		01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
		02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobe1.net									
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0								
Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobe1.net									
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0								
Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com									

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BU=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



INTERIM/PARTIAL REPORT -S OF OCT 22, 2003 17:44:53

iPL 3J1729

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Page 1 of 1

INTERNATIONAL PLACER LABORATORY LTD

Client : bcMetals
Project: Red Chris

144 Samples

Ship#

137=Core 7=Pulp 8=Repeat 1=B1k iPL 1 [172917:44:52:30102203:001]

Out: Oct 22, 2003
In : Oct 17, 2003

Sample Name	Au g/mt	Au g/mt	Sample Name	Au g/mt	Au g/mt	Sample Name	Au g/mt	Au g/mt	Sample Name	Au g/mt	Au g/mt
96005	C	0.87	---	96044	C	0.15	---	96083	C	0.09	---
96006	C	0.82	---	96045	C	0.13	---	96084	C	0.10	---
96007	C	0.81	---	96046	C	0.11	---	96085	C	0.09	---
96008	C	0.89	---	96047	C	0.13	---	96086	C	0.09	---
96009	C	1.11	1.26	96048	C	0.16	---	96087	C	0.10	---
96010	C	1.02	1.21	96049	C	0.19	---	96088	C	0.09	---
96011	C	0.59	---	96050	C	0.12	---	96089	C	0.11	---
96012	C	1.28	1.45	96051	C	0.12	---	96090	C	0.04	---
96013	C	1.21	1.43	96052	C	0.12	---	96091	C	0.04	---
96014	C	1.23	1.16	96053	C	0.18	---	96092	C	0.04	---
96015	C	1.15	1.42	96054	C	0.02	---	96093	C	0.05	---
96016	C	1.30	1.77	96055	C	0.04	---	96094	C	0.07	---
96017	C	1.26	1.30	96056	C	0.02	---	96095	C	0.10	---
96018	C	2.45	2.52	96057	C	0.04	---	96096	C	0.15	---
96019	C	1.78	2.01	96058	C	0.01	---	96097	C	0.06	---
96020 Pulp	P	0.65	---	96059	C	0.04	---	96098	C	0.12	---
96021	C	1.24	1.40	96060 Pulp	P	0.50	---	96099	C	0.12	---
96022	C	0.76	---	96061	C	0.50	---	96100 Pulp	P	0.29	---
96023	C	0.40	---	96062	C	0.03	---	96101	C	0.09	---
96024	C	0.59	---	96063	C	0.17	---	96102	C	0.09	---
96025	C	0.42	---	96064	C	0.08	---	96103	C	0.10	---
96026	C	0.07	---	96065	C	0.07	---	96104	C	0.16	---
96027	C	0.13	---	96066	C	0.08	---	96105	C	0.12	---
96028	C	0.16	---	96067	C	0.18	---	96106	C	0.15	---
96029	C	0.16	---	96068	C	0.10	---	96107	C	0.20	---
96030	C	0.14	---	96069	C	0.08	---	96108	C	0.11	---
96031	C	0.46	---	96070	C	0.09	---	96109	C	0.16	---
96032	C	0.28	---	96071	C	0.09	---	98065	C	0.28	---
96033	C	0.14	---	96072	C	0.09	---	98066	C	0.60	---
96034	C	0.13	---	96073	C	0.04	---	98067	C	0.54	---
96035	C	0.16	---	96074	C	0.06	---	98068	C	0.46	---
96036	C	0.16	---	96075	C	0.06	---	98069	C	0.41	---
96037	C	0.15	---	96076	C	0.07	---	98070	C	0.40	---
96038	C	0.12	---	96077	C	0.07	---	98071	C	0.30	---
96039	C	0.16	---	96078	C	0.08	---	98072	C	0.26	---
96040 Pulp	P	<0.01	---	96079	C	0.07	---	98073	C	0.36	---
96041	C	0.12	---	96080 Pulp	P	0.01	---	98074	C	0.74	---
96042	C	0.20	---	96081	C	0.06	---	98075	C	0.68	---
96043	C	0.07	---	96082	C	0.11	---	98076	C	1.07	1.03
98077	C	0.95	---					98077	C	0.95	---
98078	C	1.13	1.14					98078	C	1.13	1.14
98079	C	0.41	---					98079	C	0.41	---
98080 Pulp	P	0.70	---					98080	Pulp	0.70	---
98081	C	0.39	---					98081	C	0.39	---
98082	C	0.45	---					98082	C	0.45	---
98083	C	0.46	---					98083	C	0.46	---
98084	C	0.45	---					98084	C	0.45	---
98085	C	0.63	---					98085	C	0.63	---
98086	C	0.52	---					98086	C	0.52	---
98087	C	0.57	---					98087	C	0.57	---
98088	C	0.61	---					98088	C	0.61	---
98089	C	0.73	---					98089	C	0.73	---
98090	C	0.62	---					98090	C	0.62	---
98091	C	0.49	---					98091	C	0.49	---
98092	C	0.57	---					98092	C	0.57	---
98093	C	0.62	---					98093	C	0.62	---
98094	C	0.74	---					98094	C	0.74	---
98095	C	0.53	---					98095	C	0.53	---
98096	C	0.67	---					98096	C	0.67	---
98097	C	0.59	---					98097	C	0.59	---
98098	C	0.65	---					98098	C	0.65	---
98099	C	0.60	---					98099	C	0.60	---
98100 Pulp	P	0.01	---					98100	Pulp	0.01	---
98101	C	0.87	---					98101	C	0.87	---
98102	C	0.57	---					98102	C	0.57	---
98103	C	0.41	---					98103	C	0.41	---
RE 96005	R	0.87	---					RE 96005	R	0.87	---
RE 96024	R	0.58	---					RE 96024	R	0.58	---
RE 96044	R	0.14	---					RE 96044	R	0.14	---
RE 96063	R	0.18	---					RE 96063	R	0.18	---
RE 96083	R	0.09	---					RE 96083	R	0.09	---
RE 96102	R	0.08	---					RE 96102	R	0.08	---
RE 98077	R	0.96	---					RE 98077	R	0.96	---
RE 98096	R	0.68	---					RE 98096	R	0.68	---
Blank iPL	Z	<0.01	---					Blank iPL	Z	<0.01	---
FA_StdC	Z	0.35	---					FA_StdC	Z	0.35	---
FA_StdC REF	Z	0.33	0.33					FA_StdC REF	Z	0.33	0.33

Min Limit 0.01 0.07 0.01 0.07 0.01 0.07 0.01 0.07
 Max Reported* 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00 9999.00
 Method FA/AAS FAGrav FA/AAS FAGrav FA/AAS FAGrav FA/AAS FAGrav
 ---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=B1k iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 3J1735

Vancouver, BC
 Canada V6C 2T6
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [173514:45:53:30101703:001]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

1 Samples

Out: Oct 17, 2003 In: Oct 11, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	1	Pulp	Pulp received as it is. no sample prep.	12M/Dis	00M/Dis

Analytical Summary

Analysis: Assay Au & Cu / * Recheck sample from Job#0311621 *

NS=No Sample Rep=Replicate M=Month Dis=Discard

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

Document Distribution

- 1 Red Chris Development Company Ltd. EN RT CC IN FX
 488 - 625 Howe Street 1 2 0 2 0
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 0 0 0
 Canada
 Att: Account Payable Ph: (604)683-0140
 Fx: (604)683-0126
 Em: smithib@attglobel.net

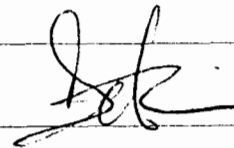
- 2 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ian Smith Ph: (604)683-0140
 Fx: (604)683-0126
 Em: smithib@attglobel.net

- 3 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ron Simpson Ph: (604)683-0140
 Fx: (604)683-0126
 Em: rgs@uniserve.com

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3J1741

Phone (604) 879-7879
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

94 Samples

Ship#

90=Core 4=Pulp 5=Repeat 1=Blk iPL 1 [174100:02:09:30102603:002]

Out: Oct 23, 2003
In : Oct 20, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
99523	C	1.05	1.04	0.52	99562	C	0.13	—	0.21	99601	C	0.14	—	0.22
99524	C	0.60	—	0.62	99563	C	0.10	—	0.19	99602	C	0.12	—	0.22
99525	C	0.40	—	0.42	99564	C	0.12	—	0.19	99603	C	0.15	—	0.27
99526	C	0.33	—	0.37	99565	C	0.12	—	0.25	99604	C	0.18	—	0.32
99527	C	0.42	—	0.44	99566	C	0.06	—	0.08	99605	C	0.26	—	0.53
99528	C	0.49	—	0.54	99567	C	0.10	—	0.23	99606	C	0.18	—	0.30
99529	C	0.54	—	0.48	99568	C	0.14	—	0.28	99607	C	0.14	—	0.23
99530	C	0.28	—	0.29	99569	C	0.05	—	<0.01	99608	C	0.21	—	0.30
99531	C	0.19	—	0.19	99570	C	0.13	—	0.17	99609	C	0.23	—	0.36
99532	C	0.19	—	0.24	99571	C	0.13	—	0.21	99610	C	0.17	—	0.29
99533	C	0.22	—	0.25	99572	C	0.14	—	0.22	99611	C	0.13	—	0.24
99534	C	0.32	—	0.34	99573	C	0.12	—	0.17	99612	C	0.13	—	0.21
99535	C	0.23	—	0.38	99574	C	0.10	—	0.16	99613	C	0.20	—	0.37
99536	C	0.28	—	0.30	99575	C	0.11	—	0.18	99614	C	0.37	—	0.69
99537	C	0.41	—	0.45	99576	C	0.09	—	0.14	99615	C	0.20	—	0.28
99538	C	0.53	—	0.47	99577	C	0.13	—	0.22	99616	C	0.31	—	0.48
99539	C	0.69	—	0.58	99578	C	0.13	—	0.28	RE 99523	R	1.09	—	0.52
99540	Pulp	P	0.01	0.01	99579	C	0.13	—	0.27	RE 99542	R	0.49	—	0.41
99541	C	0.38	—	0.39	99580	Pulp	P	0.01	0.01	RE 99562	R	0.13	—	0.22
99542	C	0.50	—	0.39	99581	C	0.13	—	0.24	RE 99581	R	0.14	—	0.24
99543	C	0.49	—	0.44	99582	C	0.12	—	0.18	RE 99601	R	0.14	—	0.22
99544	C	0.61	—	0.57	99583	C	0.11	—	0.16	Blank iPL	Z	<0.01	—	<0.01
99545	C	0.36	—	0.34	99584	C	0.15	—	0.22	FA StdC	Z	0.33	—	—
99546	C	0.24	—	0.21	99585	C	0.05	—	<0.01	FA_StdC REF	Z	0.33	0.33	—
99547	C	0.19	—	0.21	99586	C	0.04	—	0.01					
99548	C	0.36	—	0.33	99587	C	0.11	—	0.22					
99549	C	0.37	—	0.35	99588	C	0.05	—	0.02					
99550	C	0.35	—	0.32	99589	C	0.05	—	<0.01					
99551	C	0.26	—	0.25	99590	C	0.05	—	<0.01					
99552	C	0.16	—	0.51	99591	C	0.18	—	0.22					
99553	C	0.09	—	0.30	99592	C	0.23	—	0.32					
99554	C	0.10	—	0.13	99593	C	0.43	—	0.66					
99555	C	0.06	—	0.10	99594	C	0.28	—	0.39					
99556	C	0.09	—	0.22	99595	C	0.21	—	0.27					
99557	C	0.06	—	0.12	99596	C	0.18	—	0.22					
99558	C	0.08	—	0.14	99597	C	0.21	—	0.35					
99559	C	0.05	—	0.10	99598	C	0.20	—	0.37					
99560	Pulp	P	0.51	0.55	99599	C	0.16	—	0.26					
99561	C	0.07	—	0.12	99600	Pulp	P	0.30	0.36					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m-x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 53J1745

Company: iPL
 Phone: (604) 879-7878
 Fax: (604) 879-7898
 Email: iplab@telus.net
 [174517:00:34:30103003:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

129 Samples

Out: Oct 25, 2003 In: Oct 22, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	124	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	5	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	7	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

Document Distribution

1	Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net
2	bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net
3	bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com

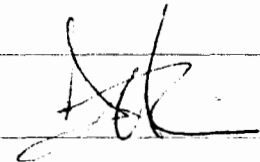
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) HD=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 33J1745

Capacity: 100
 Phone: (604) 879-7878
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 Email: iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client: bcMetals
Project: Red Chris

129 Samples

Ship# 124=Core 5=Pulp 7=Repeat 1=Blk iPL 1 [174517:00:34:30103003:002]

Out: Oct 25, 2003
In: Oct 22, 2003

Page 1 of 2

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
94113	C	0.28	—	0.09	94152 Pulp	P	0.29	—	0.33	94191	C	0.91	—	0.71
94114	C	0.21	—	0.08	94153	C	0.14	—	0.10	94192 Pulp	P	0.01	—	0.01
94115	C	0.09	—	0.03	94154	C	0.16	—	0.18	94193	C	0.69	—	0.67
94116	C	0.21	—	0.06	94155	C	0.22	—	0.38	94194	C	0.89	—	0.87
94117	C	0.28	—	0.10	94156	C	0.21	—	0.33	94195	C	0.68	—	0.55
94118	C	0.21	—	0.08	94157	C	0.21	—	0.30	94196	C	0.96	—	0.77
94119	C	0.12	—	0.06	94158	C	0.26	—	0.35	94197	C	0.56	—	0.54
94120	C	0.12	—	0.06	94159	C	0.20	—	0.39	94198	C	0.55	—	0.42
94121	C	0.09	—	0.05	94160	C	0.17	—	0.30	94199	C	0.38	—	0.32
94122	C	0.11	—	0.05	94161	C	0.17	—	0.30	94200	C	0.45	—	0.43
94123	C	0.14	—	0.07	94162	C	0.14	—	0.24	94201	C	0.38	—	0.26
94124	C	0.28	—	0.11	94163	C	0.25	—	0.36	94202	C	0.42	—	0.36
94125	C	0.21	—	0.10	94164	C	0.23	—	0.42	94203	C	0.33	—	0.28
94126	C	0.20	—	0.09	94165	C	0.36	—	0.51	94204	C	0.42	—	0.32
94127	C	0.17	—	0.12	94166	C	0.32	—	0.45	94205	C	0.30	—	0.22
94128	C	0.12	—	0.08	94167	C	0.74	—	0.97	94206	C	0.09	—	0.19
94129	C	0.15	—	0.09	94168	C	1.02	0.99	1.25	94207	C	0.11	—	0.34
94130	C	0.14	—	0.11	94169	C	1.35	1.21	1.46	94208	C	0.11	—	0.28
94131	C	0.24	—	0.14	94170	C	0.75	—	0.99	94209	C	0.10	—	0.22
94132 Pulp	P	0.53	—	0.53	94171	C	0.81	—	1.09	94210	C	0.16	—	0.33
94133	C	0.24	—	0.15	94172 Pulp	P	0.74	—	0.87	94211	C	0.23	—	0.25
94134	C	0.25	—	0.15	94173	C	0.69	—	0.87	94212	C	0.11	—	0.24
94135	C	0.20	—	0.13	94174	C	0.79	—	0.85	94213	C	0.17	—	0.30
94136	C	0.11	—	0.07	94175	C	0.58	—	0.73	94214	C	0.23	—	0.32
94137	C	0.23	—	0.14	94176	C	0.17	—	0.16	94215	C	0.14	—	0.42
94138	C	0.50	—	0.22	94177	C	0.65	—	0.62	94216	C	0.32	—	0.47
94139	C	0.01	—	<0.01	94178	C	0.40	—	0.41	94217	C	0.19	—	0.51
94140	C	0.04	—	0.03	94179	C	0.58	—	0.61	94218	C	0.17	—	0.47
94141	C	0.11	—	0.06	94180	C	0.67	—	0.49	94219	C	0.18	—	0.41
94142	C	0.28	—	0.15	94181	C	0.50	—	0.42	94220	C	0.13	—	0.26
94143	C	0.26	—	0.22	94182	C	0.42	—	0.44	94221	C	0.17	—	0.46
94144	C	0.48	—	0.30	94183	C	0.61	—	0.53	94222	C	0.18	—	0.46
94145	C	0.30	—	0.32	94184	C	0.50	—	0.57	94223	C	0.09	—	0.31
94146	C	0.34	—	0.29	94185	C	0.74	—	0.66	94224	C	0.16	—	0.33
94147	C	0.19	—	0.25	94186	C	0.41	—	0.41	94225	C	0.14	—	0.26
94148	C	0.38	—	0.37	94187	C	0.44	—	0.44	94226 Pulp	P	0.01	—	0.01
94149	C	0.43	—	0.18	94188	C	0.48	—	0.50	94227	C	0.12	—	0.31
94150	C	0.22	—	0.17	94189	C	1.52	1.27	1.39	94228	C	0.09	—	0.22
94151	C	0.21	—	0.14	94190	C	0.82	—	0.74	94229	C	0.15	—	0.35

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

— No Test Ins Insufficient Sample Del Delay Max No Estimate Rec RecCheck m x1000 % Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 33J1745

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 Page 2 of 2

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project : Red Chris

129 Samples

Ship#

124=Core 5=Pulp 7=Repeat 1=Blk iPL 1 [174517:00:34:30103003:002]

Out: Oct 25, 2003
In : Oct 22, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
94230	C	0.18	—	0.37							
94231	C	0.21	—	0.49							
94232	C	0.23	—	0.51							
94233	C	0.20	—	0.53							
94234	C	0.18	—	0.44							
94235	C	0.23	—	0.40							
94236	C	0.20	—	0.35							
94237	C	0.16	—	0.34							
94238	C	0.16	—	0.25							
94239	C	0.22	—	0.49							
94240	C	0.22	—	0.53							
94241	C	0.17	—	0.46							
RE 94113	R	0.26	—	0.09							
RE 94132 Pulp	R	0.54	—	0.52							
RE 94152 Pulp	R	0.30	—	0.33							
RE 94171	R	0.97	—	1.08							
RE 94191	R	0.88	—	0.70							
RE 94210	R	0.16	—	0.33							
RE 94230	R	0.18	—	0.36							
Blank iPL	Z	<0.01	—	—							
FA_StdC	Z	0.32	—	—							
FA_StdC REF	Z	0.33	0.33	—							

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 3J1749

Canada
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 Fax (604) 679-7898
 Email iplab@telus.net
 [174916:58:50:30103003:002]

INTERNATIONAL DIAGNOSTIC LABORATORY LTD

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
Comment:

90 Samples Out: Oct 25, 2003 In: Oct 23, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	85	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	5	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	5	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

Document Distribution

1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS

iPL 53J1749

Telus
 Capabilities
 Phone (604) 279-7878
 Fax (604) 879-7898
 Email iplob@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

90 Samples

Ship# 85=Core 5=PuIp 5=Repeat 1=Blk iPL 1 [174916:58:50:30103003:002]

Out: Oct 25, 2003
 In : Oct 23, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %				
94242	C	0.24	—	0.62	94281	C	0.27	—	0.46	94320	C	0.67	—	0.66	
94243	C	0.22	—	0.53	94282	C	0.31	—	0.52	94321	C	0.77	—	0.83	
94244	C	0.18	—	0.34	94283	C	0.44	—	0.53	94322	C	0.92	—	0.86	
94245	C	0.04	—	0.02	94284	C	0.52	—	0.65	94323	C	0.64	—	0.65	
94246	PuIp	P	0.53	—	0.53	94285	C	0.39	—	0.47	94324	C	0.77	—	0.81
94247	C	0.03	—	<0.01	94286	PuIp	P	0.31	—	0.33	94325	C	1.09	1.27	0.99
94248	C	0.06	—	0.08	94287	C	0.41	—	0.54	94326	PuIp	P	0.01	—	0.02
94249	C	0.16	—	0.82	94288	C	0.56	—	0.66	94327	C	0.89	—	0.81	
94250	C	0.39	—	0.58	94289	C	0.48	—	0.53	94328	C	0.99	—	1.02	
94251	C	0.40	—	0.55	94290	C	0.53	—	0.48	94329	C	0.58	—	0.55	
94252	C	0.06	—	0.08	94291	C	0.41	—	0.53	94330	C	0.79	—	0.76	
94253	C	0.05	—	0.02	94292	C	0.36	—	0.54	94331	C	0.98	—	1.16	
94254	C	0.21	—	0.63	94293	C	0.52	—	0.69	RE 94242	R	0.23	—	0.63	
94255	C	0.43	—	0.97	94294	C	0.56	—	0.65	RE 94261	R	0.01	—	<0.01	
94256	C	0.59	—	1.16	94295	C	0.59	—	0.57	RE 94281	R	0.25	—	0.48	
94257	C	0.43	—	0.89	94296	C	0.44	—	0.71	RE 94300	R	0.65	—	0.86	
94258	C	0.03	—	0.02	94297	C	0.62	—	0.83	RE 94320	R	0.66	—	0.65	
94259	C	0.12	—	0.22	94298	C	0.58	—	1.19	Blank iPL	Z	<0.01	—	—	
94260	C	0.03	—	<0.01	94299	C	0.58	—	0.72	FA_StdC	Z	0.33	—	—	
94261	C	0.01	—	<0.01	94300	C	0.67	—	0.86	FA_StdC REF	Z	0.33	0.33	—	
94262	C	0.01	—	<0.01	94301	C	0.60	—	0.76						
94263	C	0.01	—	<0.01	94302	C	0.54	—	0.67						
94264	C	0.03	—	0.05	94303	C	0.53	—	0.75						
94265	C	0.50	—	0.97	94304	C	0.49	—	0.71						
94266	PuIp	P	0.69	—	0.86	94305	C	0.66	—	1.02					
94267	C	0.71	—	1.00	94306	PuIp	P	0.71	—	0.87					
94268	C	0.66	—	0.97	94307	C	0.56	—	0.69						
94269	C	0.04	—	0.04	94308	C	0.50	—	0.75						
94270	C	0.02	—	<0.01	94309	C	0.06	—	0.02						
94271	C	0.29	—	0.42	94310	C	0.28	—	0.50						
94272	C	0.36	—	0.54	94311	C	0.32	—	0.65						
94273	C	0.58	—	0.67	94312	C	0.33	—	0.58						
94274	C	0.10	—	0.03	94313	C	0.28	—	0.49						
94275	C	0.18	—	0.36	94314	C	0.44	—	0.46						
94276	C	0.23	—	0.55	94315	C	0.50	—	0.51						
94277	C	0.29	—	0.55	94316	C	0.26	—	0.32						
94278	C	0.20	—	0.47	94317	C	0.23	—	0.30						
94279	C	0.17	—	0.28	94318	C	0.44	—	0.50						
94280	C	0.16	—	0.48	94319	C	0.42	—	0.54						

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=PuIp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 3J1755

Canada
 Phone (604) 279-7878
 Fax (604) 279-7808
 Email ipslab@telus.net
 [175516:58:02:30103003:006]

INTERNATIONAL PLASMA LABORATORY LTD

60 Samples

Out: Oct 25, 2003 In: Oct 23, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	57	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu /

Document Distribution

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

1	EN	RT	CC	IN	FX
1	1	2	0	2	0
Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net					

2	EN	RT	CC	IN	FX
2	1	2	1	2	1
bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net					

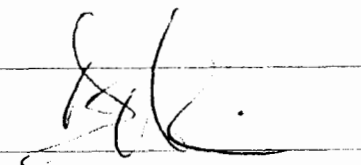
3	EN	RT	CC	IN	FX
3	1	2	1	2	1
bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com					

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3J1755

INTERNATIONAL PLASMA LABORATORY LTD

Quantity: 51
 Phone: (604) 279-7878
 Fax: (604) 279-7808
 Email: iplab@telus.net
 Page: 1 of 1

Client: bcMetals
 Project: Red Chris

60 Samples

Ship# 57=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [175516:58:02:30103003:006]

Out: Oct 25, 2003
 In: Oct 23, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
98144	C	0.06	—	0.17	98183	C	0.25	—	0.40		
98145	C	0.11	—	0.30	98184	C	0.51	—	0.77		
98146	C	0.11	—	0.23	98185	C	0.39	—	0.57		
98147	C	0.07	—	0.17	98186	C	0.18	—	0.32		
98148	C	0.08	—	0.28	98187	C	0.35	—	0.46		
98149	C	0.09	—	0.22	98188	C	0.29	—	0.37		
98150	C	0.13	—	0.24	98189	C	0.20	—	0.26		
98151	C	0.10	—	0.16	98190	C	0.34	—	0.46		
98152	C	0.11	—	0.21	98191	C	0.37	—	0.46		
98153	C	0.08	—	0.21	98192	C	0.34	—	0.53		
98154	C	0.09	—	0.24	98193	C	0.42	—	0.59		
98155	C	0.12	—	0.32	98194	C	0.24	—	0.33		
98156	C	0.20	—	0.38	98195	C	0.41	—	0.51		
98157	C	0.14	—	0.30	98196	C	0.30	—	0.41		
98158	C	0.18	—	0.35	98197	C	0.40	—	0.66		
98159	C	0.44	—	0.74	98198	C	0.44	—	0.57		
98160 Pulp	P	0.71	—	0.87	98199	C	0.47	—	0.60		
98161	C	0.03	—	0.04	98200 Pulp	P	0.02	—	0.02		
98162	C	0.02	—	0.02	98201	C	0.54	—	0.68		
98163	C	0.03	—	0.02	98202	C	0.41	—	0.46		
98164	C	0.44	—	0.38	98203	C	0.36	—	0.43		
98165	C	0.96	—	1.01	RE 98144	R	0.06	—	0.17		
98166	C	0.84	—	0.84	RE 98163	R	0.03	—	0.02		
98167	C	0.73	—	0.93	RE 98183	R	0.28	—	0.41		
98168	C	0.74	—	0.86	RE 98202	R	0.39	—	0.47		
98169	C	0.02	—	0.02	Blank iPL	Z	<0.01	—	—		
98170	C	0.75	—	0.79	FA_StdC	Z	0.33	—	—		
98171	C	0.62	—	0.92	FA_StdC REF	Z	0.33	0.33	—		
98172	C	0.73	—	1.05							
98173	C	0.76	—	0.98							
98174	C	0.67	—	0.98							
98175	C	0.73	—	1.00							
98176	C	0.48	—	0.79							
98177	C	0.23	—	0.41							
98178	C	0.27	—	0.06							
98179	C	0.35	—	0.61							
98180 Pulp	P	0.60	—	0.53							
98181	C	0.25	—	0.41							
98182	C	0.11	—	0.18							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Rec'check m=x1000 %-Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS
iPL 3311756

Canada
Phone (604) 979-7311
Fax (604) 979-7899
Email iplab@telus.net
[175612:32:17:30103103:006]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

65 Samples

Out: Oct 25, 2003 In: Oct 23, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

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B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ian Smith Ph:(604)683-0140
Fx:(604)683-0126
Em:smithib@attglobe1.net

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Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ron Simpson Ph:(604)683-0140
Fx:(604)683-0126
Em:rgs@uniserve.com

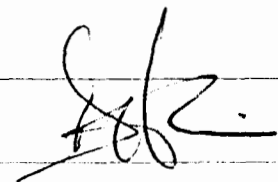
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 5J1756

Vancouver, Canada
 Phone (604) 879-7800
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

65 Samples

Ship#

62=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [175612:32:17:30103103:006]

Out: Oct 25, 2003
 In : Oct 23, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
98263	C	0.02	—	0.10	98302	C	0.52	—	0.42		
98264	C	0.11	—	0.42	98303	C	0.39	—	0.28		
98265	C	0.06	—	0.15	98304	C	0.68	—	0.11		
98266	C	0.05	—	0.09	98305	C	0.34	—	0.31		
98267	C	0.06	—	0.12	98306	C	0.16	—	0.28		
98268	C	0.07	—	0.16	98307	C	0.17	—	0.18		
98269	C	0.05	—	0.19	98308	C	0.23	—	0.33		
98270	C	0.06	—	0.13	98309	C	0.22	—	0.29		
98271	C	0.05	—	0.14	98310	C	0.28	—	0.51		
98272	C	0.03	—	0.09	98311	C	0.19	—	0.50		
98273	C	0.05	—	0.13	98312	C	0.14	—	0.31		
98274	C	0.04	—	0.13	98313	C	0.35	—	0.46		
98275	C	0.05	—	0.13	98314	C	0.24	—	0.35		
98276	C	0.07	—	0.22	98315	C	0.24	—	0.27		
98277	C	0.08	—	0.24	98316	C	0.46	—	0.38		
98278	C	0.11	—	0.74	98317	C	0.23	—	0.25		
98279	C	0.04	—	0.04	98318	C	0.21	—	0.29		
98280 Pulp	P	0.02	—	0.02	98319	C	0.33	—	0.39		
98281	C	0.05	—	0.16	98320 Pulp	P	0.54	—	0.53		
98282	C	0.14	—	0.32	98321	C	0.42	—	0.46		
98283	C	0.14	—	0.39	98322	C	0.38	—	0.41		
98284	C	0.11	—	0.22	98323	C	0.45	—	0.48		
98285	C	0.15	—	0.27	98324	C	0.32	—	0.29		
98286	C	0.17	—	0.22	98325	C	0.29	—	0.26		
98287	C	0.22	—	0.39	98326	C	0.35	—	0.34		
98288	C	0.24	—	0.32	98327	C	0.33	—	0.49		
98289	C	0.24	—	0.26	RE 98263	R	0.02	—	0.11		
98290	C	0.17	—	0.31	RE 98282	R	0.18	—	0.32		
98291	C	0.17	—	0.35	RE 98302	R	0.51	—	0.41		
98292	C	0.26	—	0.25	RE 98321	R	0.42	—	0.46		
98293	C	0.30	—	0.36	Blank iPL	Z	<0.01	—	<0.01		
98294	C	0.37	—	0.47	FA_StdC	Z	0.35	—	—		
98295	C	0.33	—	0.46	FA_StdC REF	Z	0.33	0.33	—		
98296	C	0.40	—	0.54							
98297	C	0.30	—	0.48							
98298	C	0.65	—	0.63							
98299	C	0.64	—	0.66							
98300 Pulp	P	0.30	—	0.34							
98301	C	1.04	1.10	1.16							

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

0.01 0.07 0.01
 9999.00 9999.00 100.00
 FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 53J1759

Canada: 604 870 1278

Phone (604) 870 1278

Fax (604) 870 7998

Email: iplab@telus.net

Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project : Red Chris

66 Samples

Ship# 63=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [175912:32:38:30103103:002]

Out: Oct 25, 2003
In : Oct 23, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
99652	C	0.39	—	0.53	99790	C	0.09	—	0.08		
99653	C	0.47	—	0.62	99791	C	0.16	—	0.24		
99654	C	0.40	—	0.67	99792	C	0.21	—	0.29		
99655	C	0.57	—	0.76	99793	C	0.07	—	0.11		
99656	C	0.36	—	0.58	99794	C	0.05	—	0.07		
99657	C	0.34	—	0.45	99795	C	0.08	—	0.08		
99658	C	0.58	—	0.48	99796	C	0.04	—	0.06		
99659	C	0.40	—	0.52	99797	C	0.04	—	0.07		
99660 Pulp	P	0.56	—	0.53	99798	C	0.06	—	0.07		
99661	C	0.31	—	0.35	99799	C	0.04	—	0.04		
99662	C	0.46	—	0.55	99800 Pulp	P	0.31	—	0.33		
99663	C	0.32	—	0.38	99801	C	0.05	—	0.06		
99664	C	0.43	—	0.49	99802	C	0.04	—	0.05		
99665	C	0.39	—	0.40	99803	C	0.03	—	0.04		
99666	C	0.10	—	0.12	99804	C	0.09	—	0.09		
99667	C	0.07	—	0.08	99805	C	0.07	—	0.08		
99668	C	0.07	—	0.07	99806	C	0.10	—	0.11		
99669	C	0.10	—	0.09	99807	C	0.09	—	0.05		
99670	C	0.35	—	0.27	99808	C	0.10	—	0.04		
99671	C	0.33	—	0.31	99809	C	0.06	—	0.07		
99672	C	0.32	—	0.39	99810	C	0.08	—	0.09		
99673	C	0.15	—	0.15	99811	C	0.16	—	0.14		
99674	C	0.27	—	0.21	99812	C	0.16	—	0.16		
99675	C	0.09	—	0.08	99813	C	0.16	—	0.13		
99676	C	0.12	—	0.11	99814	C	0.19	—	0.13		
99677	C	0.12	—	0.10	99815	C	0.15	—	0.20		
99678	C	0.15	—	0.15	99816	C	0.14	—	0.14		
99679	C	0.18	—	0.15	RE 99652	R	0.40	—	0.55		
99680 Pulp	P	0.01	—	0.01	RE 99671	R	0.32	—	0.32		
99681	C	0.20	—	0.20	RE 99790	R	0.09	—	0.08		
99682	C	0.15	—	0.16	RE 99809	R	0.06	—	0.07		
99683	C	0.11	—	0.13	Blank iPL	Z	<0.01	—	<0.01		
99684	C	0.07	—	0.06	FA_StdC	Z	0.35	—	—		
99685	C	0.07	—	0.06	FA_StdC REF	Z	0.33	0.33	—		
99686	C	0.16	—	0.17							
99687	C	0.07	—	0.07							
99787	C	0.13	—	0.09							
99788	C	0.08	—	0.08							
99789	C	0.14	—	0.13							

Min Limit 0.01 0.07 0.01
Max Reported* 9999.00 9999.00 100.00
Method FA/AAS FAGrav AsyMuA

0.01 0.07 0.01
9999.00 9999.00 100.00
FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03J1761

Vancouver
 Canada V6C 2T6
 Phone (604) 879-7879
 Fax (604) 879-7899
 Email iplab@telus.net
 [176117:01:50:30102703:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ron Simpson
 Shipment: PO#:
 Comment:
 Re:03J1655 03J1656 03J1657

10 Samples

Out: Oct 27, 2003 In: Oct 23, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	10	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Pt Pd Ag assays /

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0341	FA/AAS	g/mt	Pd FA/AAS finish in g/mt	Palladium	0.01	1000.00
02	0331	FA/AAS	g/mt	Pt FA/AAS finish in g/mt	Platinum	0.01	1000.00
03	0354	FAGrav	g/mt	Ag FA/Grav in g/mt	Silver	0.3	9999.0

Document Distribution

- | | | | | | | | | | | | | | | | | | | | | | |
|---|--|----|----|----|----|----|---|---|---|---|---|----|----|----|----|----|---|---|---|---|---|
| <p>1 Red Chris Development Company Ltd.
 488 - 625 Howe Street
 Vancouver
 B.C. V6C 2T6
 Canada
 Att: Account Payable</p> | <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr><td>EN</td><td>RT</td><td>CC</td><td>IN</td><td>FX</td></tr> <tr><td>1</td><td>2</td><td>0</td><td>2</td><td>0</td></tr> <tr><td>DL</td><td>3D</td><td>EM</td><td>BT</td><td>BL</td></tr> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> </table> <p>Ph: (604)683-0140
 Fx: (604)683-0126
 Em: smithib@attglobel.net</p> | EN | RT | CC | IN | FX | 1 | 2 | 0 | 2 | 0 | DL | 3D | EM | BT | BL | 0 | 0 | 0 | 0 | 0 |
| EN | RT | CC | IN | FX | | | | | | | | | | | | | | | | | |
| 1 | 2 | 0 | 2 | 0 | | | | | | | | | | | | | | | | | |
| DL | 3D | EM | BT | BL | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | |
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 B.C. V6C 2T6
 Canada
 Att: Ian Smith</p> | <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr><td>EN</td><td>RT</td><td>CC</td><td>IN</td><td>FX</td></tr> <tr><td>1</td><td>2</td><td>1</td><td>2</td><td>1</td></tr> <tr><td>DL</td><td>3D</td><td>EM</td><td>BT</td><td>BL</td></tr> <tr><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td></tr> </table> <p>Ph: (604)683-0140
 Fx: (604)683-0126
 Em: smithib@attglobel.net</p> | EN | RT | CC | IN | FX | 1 | 2 | 1 | 2 | 1 | DL | 3D | EM | BT | BL | 0 | 0 | 1 | 0 | 0 |
| EN | RT | CC | IN | FX | | | | | | | | | | | | | | | | | |
| 1 | 2 | 1 | 2 | 1 | | | | | | | | | | | | | | | | | |
| DL | 3D | EM | BT | BL | | | | | | | | | | | | | | | | | |
| 0 | 0 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | |
| <p>3 bcMetals
 488 - 625 Howe Street
 Vancouver
 B.C. V6C 2T6
 Canada
 Att: Ron Simpson</p> | <table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <tr><td>EN</td><td>RT</td><td>CC</td><td>IN</td><td>FX</td></tr> <tr><td>1</td><td>2</td><td>1</td><td>2</td><td>1</td></tr> <tr><td>DL</td><td>3D</td><td>EM</td><td>BT</td><td>BL</td></tr> <tr><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td></tr> </table> <p>Ph: (604)683-0140
 Fx: (604)683-0126
 Em: rgs@uniserive.com</p> | EN | RT | CC | IN | FX | 1 | 2 | 1 | 2 | 1 | DL | 3D | EM | BT | BL | 0 | 0 | 1 | 0 | 0 |
| EN | RT | CC | IN | FX | | | | | | | | | | | | | | | | | |
| 1 | 2 | 1 | 2 | 1 | | | | | | | | | | | | | | | | | |
| DL | 3D | EM | BT | BL | | | | | | | | | | | | | | | | | |
| 0 | 0 | 1 | 0 | 0 | | | | | | | | | | | | | | | | | |

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS
iPL 03J1761

Vancouver
 Canada V6Y 1R1
 Phone (604) 979-7808
 Fax (604) 979-7808
 Email iplab@iclus.net
 Page 1 of 1
 Section 1 of 1

INTERNATIONAL PLASMA LABORATORIES LTD.

Client : bcMetals
Project: Red Chris

Ship# **10 Samples**
 10=Pulp 1=Blk iPL

[176117:13:08:30102703:002]

Out: Oct 27, 2003
 In : Oct 23, 2003

Sample Name	Type	Pd g/mt	Pt g/mt	Ag g/mt
03J1655 95709	Pulp	<0.01	<0.01	2.6
03J1655 95730	Pulp	<0.01	<0.01	5.0
03J1655 95751	Pulp	<0.01	<0.01	2.9
03J1655 95772	Pulp	<0.01	<0.01	2.8
03J1656 95793	Pulp	0.02	<0.01	7.1
03J1656 95814	Pulp	0.02	<0.01	4.4
03J1657 95604	Pulp	<0.01	<0.01	0.4
03J1657 95625	Pulp	<0.01	<0.01	2.1
03J1657 95667	Pulp	<0.01	<0.01	6.1
03J1657 95688	Pulp	<0.01	<0.01	3.8
Blank iPL	Blk iPL	<0.01	<0.01	<0.3

Minimum Detection 0.01 0.01 0.3
 Maximum Detection 1000.00 1000.00 9999.0
 Method FA/AAS FA/AAS FAGrav
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS
iPL 3J1762

Canada 91
Phone (604) 279-1878
Fax (604) 979-7830
Email iplab@letus.net
[176212:32:56:30103103:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
Shipper : John Bellamy
Shipment: PO#:
Comment:

80 Samples

Out: Oct 25, 2003 In: Oct 24, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	76	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	5	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

Document Distribution

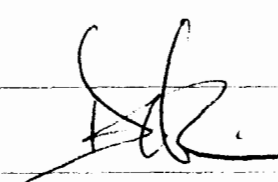
1 Red Chris Development Company Ltd. EN RT CC IN FX
488 - 625 Howe Street 1 2 0 2 0
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 0 0 0
Canada
Att: Account Payable Ph:(604)683-0140
Fx:(604)683-0126
Em:smithib@attglobal.net

2 bcMetals EN RT CC IN FX
488 - 625 Howe Street 1 2 1 2 1
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ian Smith Ph:(604)683-0140
Fx:(604)683-0126
Em:smithib@attglobal.net

3 bcMetals EN RT CC IN FX
488 - 625 Howe Street 1 2 1 2 1
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ron Simpson Ph:(604)683-0140
Fx:(604)683-0126
Em:rgs@uniserve.com

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03J1762

INTERNATIONAL PLASMA LABORATORY LTD

Canada ...

Phone (604) 879-7878

Fax (604) 879-7898

Email iplab@telus.net

Page 1 of 1

Client : bcMetals
Project : Red Chris

Ship# 80 Samples

76=Core 4=Pulp 5=Repeat 1=Blk iPL 1 [176212:32:56:30103103:002]

Out: Oct 25, 2003
In : Oct 24, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %				
96110	C	0.16	—	0.12	99834	C	0.08	—	0.03	99873	C	0.04	—	0.01	
96111	C	0.16	—	0.11	99835	C	0.06	—	0.02	99874	C	0.03	—	0.02	
96112	C	0.16	—	0.11	99836	C	0.03	—	0.01	RE 96110	R	0.16	—	0.12	
96113	C	0.15	—	0.08	99837	C	0.03	—	<0.01	RE 96129	R	0.09	—	0.07	
96114	C	0.12	—	0.08	99838	C	0.02	—	<0.01	RE 99834	R	0.08	—	0.03	
96115	C	0.08	—	0.05	99839	C	0.04	—	0.02	RE 99853	R	0.03	—	<0.01	
96116	C	0.11	—	0.06	99840	Pulp	P	0.70	—	0.87	RE 99873	R	0.04	—	0.01
96117	C	0.11	—	0.10	99841	C	0.02	—	0.02	Blank iPL	Z	<0.01	—	<0.01	
96118	C	0.16	—	0.16	99842	C	0.03	—	0.01	FA StdC	Z	0.32	—	—	
96119	C	0.16	—	0.13	99843	C	0.04	—	0.01	FA_StdC REF	Z	0.33	0.33	—	
96120	Pulp	P	0.31	—	0.33	99844	C	0.03	—	0.01					
96121	C	0.16	—	0.13	99845	C	0.03	—	0.02						
96122	C	0.12	—	0.10	99846	C	0.03	—	0.02						
96123	C	0.17	—	0.12	99847	C	0.04	—	<0.01						
96124	C	0.16	—	0.14	99848	C	0.04	—	0.03						
96125	C	0.13	—	0.10	99849	C	0.08	—	0.02						
96126	C	0.11	—	0.08	99850	C	0.05	—	0.01						
96127	C	0.09	—	0.08	99851	C	0.03	—	<0.01						
96128	C	0.13	—	0.09	99852	C	0.03	—	<0.01						
96129	C	0.08	—	0.06	99853	C	0.02	—	<0.01						
96130	C	0.08	—	0.08	99854	C	0.02	—	0.02						
96131	C	0.10	—	0.07	99855	C	0.02	—	0.02						
99817	C	0.17	—	0.19	99856	C	0.03	—	0.02						
99818	C	0.13	—	0.14	99857	C	0.05	—	<0.01						
99819	C	0.05	—	0.03	99858	C	0.02	—	<0.01						
99820	Pulp	P	0.30	—	0.33	99859	C	0.02	—	0.01					
99821	C	0.05	—	0.04	99860	Pulp	P	0.02	—	0.01					
99822	C	0.04	—	0.01	99861	C	0.09	—	<0.01						
99823	C	0.05	—	0.02	99862	C	0.02	—	<0.01						
99824	C	0.04	—	0.02	99863	C	0.03	—	<0.01						
99825	C	0.06	—	0.02	99864	C	0.03	—	0.02						
99826	C	0.05	—	0.02	99865	C	0.03	—	0.02						
99827	C	0.04	—	0.02	99866	C	0.05	—	0.02						
99828	C	0.08	—	0.02	99867	C	0.02	—	<0.01						
99829	C	0.04	—	0.02	99868	C	0.03	—	0.01						
99830	C	0.07	—	0.02	99869	C	0.05	—	0.02						
99831	C	0.08	—	0.02	99870	C	0.04	—	0.02						
99832	C	0.05	—	0.02	99871	C	0.05	—	0.01						
99833	C	0.05	—	0.03	99872	C	0.04	—	0.02						

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyHuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyHuA
—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL									

CERTIFICATE OF ANALYSIS

iPL 03J1765

Canada
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [176516:09:36:30103103:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

70 Samples

Out: Oct 27, 2003 In: Oct 24, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	67	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

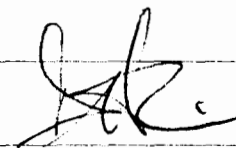
1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	## Code Method Units Description Element Limit Low Limit High
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	01 0368 FA/AAS g/mt Au (FA/AAS 30g) g/mt Gold 0.01 9999.00 02 0364 FAGrav g/mt Au FA/Grav in g/mt Gold 0.07 9999.00 03 0113 AsyMuA % Cu Assay by AA/ICP in % Copper 0.01 100.00
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chin



CERTIFICATE OF ANALYSIS

iPL 03J1765

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Phone (604) 979-7878
Fax (604) 979-7898
Email ipplab@telus.net
Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project : Red Chris

70 Samples

Ship#

67=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [176516:09:36:30103103:002]

Out: Oct 27, 2003
In : Oct 24, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
98104	C	0.09	—	0.15	98143	C	0.06	—	0.21			
98105	C	0.08	—	0.15	98204	C	0.40	—	0.38			
98106	C	0.10	—	0.15	98205	C	0.56	—	0.71			
98107	C	0.13	—	0.22	98206	C	0.59	—	0.66			
98108	C	0.08	—	0.18	98207	C	0.82	—	0.94			
98109	C	0.11	—	0.23	98208	C	0.79	—	0.85			
98110	C	0.13	—	0.33	98209	C	0.45	—	0.52			
98111	C	0.10	—	0.27	98210	C	0.72	—	0.77			
98112	C	0.17	—	0.28	98211	C	0.46	—	0.45			
98113	C	0.11	—	0.24	98212	C	0.72	—	0.70			
98114	C	0.13	—	0.21	98213	C	1.12	1.10	1.22			
98115	C	0.09	—	0.10	98214	C	0.96	—	0.88			
98116	C	0.13	—	0.16	98215	C	0.78	—	0.82			
98117	C	0.13	—	0.21	98216	C	0.64	—	0.69			
98118	C	0.17	—	0.26	98217	C	0.77	—	0.79			
98119	C	0.17	—	0.27	98218	C	0.05	—	0.04			
98120	Pulp	P	0.01	—	0.01	98219	C	0.05	—	0.03		
98121	C	0.52	—	0.26	98220	Pulp	P	0.57	—	0.56		
98122	C	0.25	—	0.44	98221	C	0.12	—	0.09			
98123	C	0.13	—	0.20	98222	C	0.97	—	1.07			
98124	C	0.10	—	0.17	98223	C	0.70	—	0.78			
98125	C	0.32	—	0.48	98224	C	0.60	—	0.59			
98126	C	0.28	—	0.59	98225	C	0.59	—	0.64			
98127	C	0.30	—	0.47	98226	C	0.56	—	0.64			
98128	C	0.36	—	0.76	98227	C	0.52	—	0.69			
98129	C	0.29	—	0.56	98228	C	0.37	—	0.40			
98130	C	0.32	—	0.55	98229	C	0.45	—	0.45			
98131	C	0.25	—	0.46	98230	C	0.41	—	0.42			
98132	C	0.20	—	0.51	98231	C	0.59	—	0.61			
98133	C	0.13	—	0.31	98232	C	0.46	—	0.48			
98134	C	0.18	—	0.49	98233	C	0.38	—	0.37			
98135	C	0.11	—	0.42	RE 98104	R	0.08	—	0.14			
98136	C	0.08	—	0.46	RE 98123	R	0.12	—	0.21			
98137	C	0.07	—	0.25	RE 98143	R	0.06	—	0.21			
98138	C	0.04	—	0.08	RE 98222	R	0.92	—	1.06			
98139	C	0.02	—	0.06	Blank iPL	Z	<0.01	—	<0.01			
98140	Pulp	P	0.32	—	FA StdC	Z	0.35	—	—			
98141	C	0.02	—	0.07	FA StdC REF	Z	0.33	0.33	—			
98142	C	0.07	—	0.03								

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

ID: 03J1766

Canada: 03E1
 Phone: (604) 879-7878
 Fax: (604) 879-7898
 Email: iplab@telus.net
 [176621:29:53:30110203:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : John Bellamy
 Shipment: PO#:
 Comment:

61 Samples

Out: Oct 31, 2003 In: Oct 24, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	58	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit	Limit
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3J1766

Vancouver, B.C.
 Canada V6P 1R1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

Ship# 58=Core 3=Pulp 4=Repeat 1=Bik iPL 1 [176621:29:53:30110203:002]

Out: Oct 31, 2003
 In : Oct 24, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
98328	C	0.35	—	0.40	98367	C	0.42	—	0.38			
98329	C	0.55	—	0.10	98368	C	0.25	—	0.28			
98330	C	0.10	—	<0.01	98369	C	0.06	—	0.03			
98331	C	0.13	—	<0.01	98370	C	0.06	—	0.05			
98332	C	0.07	—	<0.01	98371	C	0.03	—	0.01			
98333	C	0.11	—	<0.01	98372	C	0.04	—	0.02			
98334	C	1.32	1.27	1.10	98373	C	0.10	—	0.05			
98335	C	1.82	1.65	1.52	98374	C	0.07	—	0.08			
98336	C	1.66	1.91	1.49	98375	C	0.06	—	0.08			
98337	C	1.38	1.46	0.89	98376	C	0.06	—	0.07			
98338	C	0.52	—	0.64	98377	C	0.07	—	0.08			
98339	C	0.47	—	0.84	98378	C	0.06	—	0.06			
98340 Pulp	P	0.72	—	0.92	98379	C	0.06	—	0.05			
98341	C	0.83	—	0.74	98380 Pulp	P	0.75	—	0.91			
98342	C	0.88	—	0.77	98381	C	0.08	—	0.16			
98343	C	0.58	—	0.89	98382	C	0.07	—	0.18			
98344	C	0.48	—	0.38	98383	C	0.08	—	0.11			
98345	C	0.38	—	0.58	98384	C	0.04	—	0.08			
98346	C	0.46	—	0.46	98385	C	0.07	—	0.23			
98347	C	0.40	—	0.79	98386	C	0.10	—	0.26			
98348	C	0.67	—	0.36	98387	C	0.07	—	0.29			
98349	C	0.74	—	0.49	98388	C	0.06	—	0.20			
98350	C	0.53	—	0.41	RE 98328	R	0.35	—	0.40			
98351	C	0.29	—	0.30	RE 98347	R	0.40	—	0.80			
98352	C	0.18	—	0.18	RE 98367	R	0.41	—	0.38			
98353	C	0.28	—	0.29	RE 98386	R	0.12	—	0.26			
98354	C	0.25	—	0.29	Blank iPL	Z	<0.01	—	<0.01			
98355	C	0.37	—	0.41	FA_StdC	Z	0.34	—	—			
98356	C	0.26	—	0.28	FA_StdC REF	Z	0.33	0.33	—			
98357	C	0.20	—	0.24								
98358	C	0.21	—	0.21								
98359	C	0.23	—	0.27								
98360 Pulp	P	0.02	—	0.01								
98361	C	0.18	—	0.24								
98362	C	0.40	—	0.39								
98363	C	0.25	—	0.28								
98364	C	0.92	—	0.27								
98365	C	0.32	—	0.35								
98366	C	0.25	—	0.41								

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03J1767

INTERNATIONAL PLASMA LABORATORY LTD

Company: IPL
 Phone: (604) 470-2900
 Fax: (604) 470-2900
 Email: ipl@bcMetals.net
 Page 1 of 1

Client : bcMetals
 Project: Red Chris

29 Samples

Ship#

27=Core 2=Pulp 2=Repeat 1=Blk iPL 1 [176716:09:19:30103103:002]

Out: Oct 28, 2003
 In : Oct 24, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
98234	C	0.41	—	0.45								
98235	C	0.37	—	0.40								
98236	C	0.38	—	0.39								
98237	C	0.47	—	0.41								
98238	C	0.04	—	0.06								
98239	C	0.06	—	0.04								
98240	Pulp	0.29	—	0.36								
98241	C	0.03	—	0.03								
98242	C	0.02	—	0.03								
98243	C	0.03	—	0.02								
98244	C	0.02	—	0.01								
98245	C	0.02	—	0.02								
98246	C	0.01	—	0.01								
98247	C	0.06	—	0.12								
98248	C	0.08	—	0.12								
98249	C	0.03	—	0.04								
98250	C	0.02	—	0.02								
98251	C	0.02	—	<0.01								
98252	C	0.11	—	0.25								
98253	C	0.27	—	0.60								
98254	C	0.13	—	0.31								
98255	C	0.13	—	0.40								
98256	C	0.07	—	0.41								
98257	C	0.05	—	0.49								
98258	C	0.09	—	0.19								
98259	C	0.01	—	<0.01								
98260	Pulp	0.69	—	0.92								
98261	C	0.02	—	<0.01								
98262	C	0.07	—	0.26								
RE 98234	R	0.41	—	0.45								
RE 98253	R	0.26	—	0.61								
Blank iPL	Z	<0.01	—	<0.01								
FA_StdC	Z	0.34	—	—								
FA_StdC REF	Z	0.33	0.33	—								

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03J1772

Vancouver
 Canada V6C 2T6
 Phone (604) 879-7808
 Fax (604) 879-7898
 Email iplab@telus.net
 [177220:04:48:30102403:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

1 Samples

Out: Oct 24, 2003 In: Oct 24, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	1	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu / Sample from Job#03J1699

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMua	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

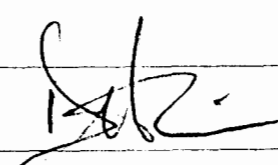
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 Fx: (604)683-0126
 Em: smithib@attglobal.net
- 3 bcMetals EN RT CC IN FX
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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03J1773

Phone (604) 879-7878
 Fax (604) 879-7898
 Email: iplab@telus.net
 [177319:28:11:30110103:003]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

60 Samples Out: Oct 31, 2003 In: Oct 27, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	57	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

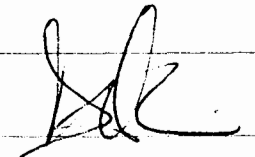
Analytical Summary
 Analysis: Au(FA/AAS) Assay Cu

Document Distribution

1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	#/	Code Method Units Description	Element	Limit Low Limit High
Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net			01 0368 FA/AAS g/mt Au (FA/AAS 30g) g/mt 02 0364 FAGrav g/mt Au FA/Grav in g/mt 03 0113 AsyMuA % Cu Assay by AA/ICP in %	Gold Gold Copper	0.01 9999.00 0.07 9999.00 0.01 100.00
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0				
Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net					
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0				
Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com					

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 53J1773

Vancouver
 Canada V6L 1E1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email ipplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

60 Samples

Ship# 57=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [177319:30:31:30110103:004]

Out: Oct 31, 2003
 In : Oct 27, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
98389	C	0.05	—	0.10	98428	C	0.02	—	<0.01		
98390	C	0.04	—	0.01	98429	C	0.02	—	<0.01		
98391	C	0.06	—	0.12	98430	C	0.08	—	0.02		
98392	C	0.06	—	0.10	98431	C	0.10	—	0.09		
98393	C	0.10	—	0.15	98432	C	0.16	—	0.37		
98394	C	0.08	—	0.15	98433	C	0.21	—	0.38		
98395	C	0.12	—	0.21	98434	C	0.20	—	0.33		
98396	C	0.05	—	0.02	98435	C	0.19	—	0.27		
98397	C	0.14	—	0.36	98436	C	0.14	—	0.34		
98398	C	0.06	—	0.14	98437	C	0.10	—	0.20		
98399	C	0.04	—	0.10	98438	C	0.02	—	<0.01		
98400 Pulp	P	0.57	—	0.56	98439	C	0.23	—	0.47		
98401	C	0.06	—	0.13	98440 Pulp	P	0.01	—	0.02		
98402	C	0.09	—	0.17	98441	C	0.27	—	0.38		
98403	C	0.11	—	0.26	98442	C	0.28	—	0.39		
98404	C	0.07	—	0.25	98443	C	0.36	—	0.67		
98405	C	0.12	—	0.31	98444	C	0.22	—	0.38		
98406	C	0.06	—	0.21	98445	C	0.29	—	0.54		
98407	C	0.07	—	0.15	98446	C	0.31	—	0.48		
98408	C	0.14	—	0.26	98447	C	0.20	—	0.39		
98409	C	0.08	—	0.17	98448	C	0.25	—	0.44		
98410	C	0.08	—	0.21	RE 98389	R	0.03	—	0.11		
98411	C	0.09	—	0.16	RE 98408	R	0.11	—	0.26		
98412	C	0.06	—	0.38	RE 98428	R	0.01	—	<0.01		
98413	C	0.06	—	0.13	RE 98447	R	0.20	—	0.37		
98414	C	0.08	—	0.14	Blank iPL	Z	<0.01	—	<0.01		
98415	C	0.07	—	0.14	FA_StdC	Z	0.35	—	—		
98416	C	0.14	—	0.24	FA_StdC REF	Z	0.33	0.33	—		
98417	C	0.06	—	0.13							
98418	C	0.07	—	0.13							
98419	C	0.06	—	0.11							
98420 Pulp	P	0.29	—	0.37							
98421	C	0.10	—	0.14							
98422	C	0.06	—	0.13							
98423	C	0.10	—	0.17							
98424	C	0.08	—	0.23							
98425	C	0.07	—	0.21							
98426	C	0.07	—	0.10							
98427	C	0.05	—	0.04							

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA
 0.01 0.07 0.01
 9999.00 9999.00 100.00
 FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL J3J1774

Canada 3B1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

Ship# 60 Samples

57=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [177421:32:02:30110203:002]

Out: Nov 02, 2003
 In : Oct 27, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
99617	C	0.22	---	0.34	99692	C	0.10	---	0.03			
99618	C	0.25	---	0.40	99693	C	0.03	---	0.13			
99619	C	0.39	---	0.48	99694	C	0.08	---	0.08			
99620 Pulp	P	0.78	---	0.91	99695	C	0.08	---	0.11			
99621	C	0.51	---	0.55	99696	C	0.07	---	0.15			
99622	C	0.77	---	0.87	99697	C	0.05	---	0.25			
99623	C	0.41	---	0.46	99698	C	0.16	---	0.33			
99624	C	0.37	---	0.38	99699	C	0.14	---	0.20			
99625	C	0.20	---	0.18	99700 Pulp	P	0.30	---	0.35			
99626	C	0.10	---	0.06	99701	C	0.10	---	0.14			
99627	C	0.07	---	0.07	99702	C	0.10	---	0.15			
99628	C	0.29	---	0.19	99703	C	0.17	---	0.17			
99629	C	0.03	---	0.01	99704	C	0.31	---	0.36			
99630	C	0.29	---	0.44	99705	C	0.16	---	0.41			
99631	C	0.36	---	0.56	99706	C	0.12	---	0.17			
99632	C	0.48	---	0.50	99707	C	0.03	---	0.05			
99633	C	0.20	---	0.22	99708	C	0.03	---	0.02			
99634	C	0.23	---	0.29	99709	C	0.04	---	<0.01			
99635	C	0.26	---	0.32	99710	C	0.13	---	0.03			
99636	C	0.25	---	0.34	99711	C	0.05	---	0.05			
99637	C	0.41	---	0.58	99712	C	0.13	---	0.08			
99638	C	0.22	---	0.27	RE 99617	R	0.23	---	0.34			
99639	C	0.16	---	0.23	RE 99636	R	0.27	---	0.33			
99640 Pulp	P	0.30	---	0.37	RE 99692	R	0.11	---	0.04			
99641	C	0.01	---	0.01	RE 99711	R	0.05	---	0.05			
99642	C	0.33	---	0.46	Blank iPL	Z	<0.01	---	<0.01			
99643	C	0.28	---	0.40	FA_StdC	Z	0.33	---	---			
99644	C	0.30	---	0.55	FA_StdC REF	Z	0.33	0.33	---			
99645	C	0.35	---	0.43								
99646	C	1.07	1.47	1.18								
99647	C	1.46	1.79	2.29								
99648	C	1.34	1.52	2.08								
99649	C	2.21	1.85	1.75								
99650	C	0.52	---	0.70								
99651	C	0.54	---	0.73								
99688	C	0.06	---	0.15								
99689	C	0.06	---	0.10								
99690	C	0.04	---	0.10								
99691	C	0.06	---	0.10								

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iP. 3J1776

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[177617:25:15:30110203:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

47 Samples

Out: Nov 02, 2003 In: Oct 27, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	44	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Bik iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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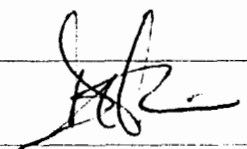
- 1 Red Chris Development Company Ltd. EN RT CC IN FX
488 - 625 Howe Street 1 2 0 2 0
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B.C. V6C 2T6 0 0 0 0 0
Canada
Att: Account Payable Ph: (604)683-0140
Fx: (604)683-0126
Em: smithib@attglobal.net

- 2 bcMetals EN RT CC IN FX
488 - 625 Howe Street 1 2 1 2 1
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ian Smith Ph: (604)683-0140
Fx: (604)683-0126
Em: smithib@attglobal.net

- 3 bcMetals EN RT CC IN FX
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Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ron Simpson Ph: (604)683-0140
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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

il 03J1776

Canada 17 2F1
 Phone (604) 879 7878
 Fax (604) 879 7898
 Email iplab@tolus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project : Red Chris

Ship# 47 Samples
 44=Core 3=Pulp 1=Blk iPL

[177617:25:15:30110203:002]

Out: Nov 02, 2003
 In : Oct 27, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
99875	C	0.03	—	0.02	99914	C	0.02	—	0.03		
99876	C	0.06	—	0.03	99915	C	0.09	—	0.18		
99877	C	0.12	—	0.02	99916	C	0.13	—	0.24		
99878	C	0.03	—	0.01	99917	C	0.09	—	0.16		
99879	C	0.07	—	0.03	99918	C	0.06	—	0.14		
99880 Pulp	P	0.58	—	0.57	99919	C	0.03	—	0.09		
99881	C	0.41	—	0.04	99920 Pulp	P	0.74	—	0.93		
99882	C	0.06	—	0.02	99921	C	0.10	—	0.10		
99883	C	0.06	—	0.04	Blank iPL	Z	<0.01	—	<0.01		
99884	C	0.04	—	0.02							
99885	C	0.05	—	0.03							
99886	C	0.46	—	0.02							
99887	C	0.09	—	0.02							
99888	C	0.03	—	0.02							
99889	C	0.03	—	0.01							
99890	C	0.05	—	<0.01							
99891	C	0.23	—	0.04							
99892	C	0.54	—	0.02							
99893	C	0.49	—	0.01							
99894	C	0.17	—	0.02							
99895	C	0.09	—	0.01							
99896	C	0.13	—	0.02							
99897	C	0.08	—	0.02							
99898	C	0.02	—	0.02							
99899	C	0.04	—	<0.01							
99900 Pulp	P	0.29	—	0.36							
99901	C	0.01	—	<0.01							
99902	C	0.01	—	<0.01							
99903	C	0.01	—	<0.01							
99904	C	<0.01	—	<0.01							
99905	C	0.01	—	<0.01							
99906	C	0.02	—	<0.01							
99907	C	0.01	—	<0.01							
99908	C	0.02	—	<0.01							
99909	C	0.03	—	<0.01							
99910	C	0.01	—	<0.01							
99911	C	0.01	—	<0.01							
99912	C	0.01	—	<0.01							
99913	C	0.02	—	0.01							

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL

CERTIFICATE OF ANALYSIS

iPL 03J1777

Vancouver, B.C.
Canada V6C 2T6
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[177718:08:28:30110203:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

73 Samples

Out: Oct 31, 2003 In: Oct 27, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	70	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

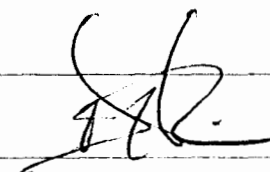
1	Red Chris Development Company Ltd.	EN RT CC IN FX	##	Code	Method	Units	Description	Element	Limit	Limit
	488 - 625 Howe Street	1 2 0 2 0							Low	High
	Vancouver	DL 3D EM BT BL		01	0368	FA/AAS	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
	B.C. V6C 2T6	0 0 0 0 0		02	0364	FAGrav	Au FA/Grav in g/mt	Gold	0.07	9999.00
	Canada			03	0113	AsyMuA	Cu Assay by AA/ICP in %	Copper	0.01	100.00
	Att: Account Payable	Ph:(604)683-0140								
		Fx:(604)683-0126								
		Em:smithib@attglobal.net								
2	bcMetals	EN RT CC IN FX								
	488 - 625 Howe Street	1 2 1 2 1								
	Vancouver	DL 3D EM BT BL								
	B.C. V6C 2T6	0 0 1 0 0								
	Canada									
	Att: Ian Smith	Ph:(604)683-0140								
		Fx:(604)683-0126								
		Em:smithib@attglobal.net								
3	bcMetals	EN RT CC IN FX								
	488 - 625 Howe Street	1 2 1 2 1								
	Vancouver	DL 3D EM BT BL								
	B.C. V6C 2T6	0 0 1 0 0								
	Canada									
	Att: Ron Simpson	Ph:(604)683-0140								
		Fx:(604)683-0126								
		Em:rgs@uniserve.com								

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

id: 03J1777

Vancouver, Canada
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email: iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

73 Samples

Ship# 70=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [177718:08:28:30110203:002]

Out: Oct 31, 2003
 In : Oct 27, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
94332	C	0.80	—	1.01	98455	C	0.16	—	0.16	FA_StdC	Z	0.35	—	—
94333	C	0.60	—	0.68	98456	C	0.24	—	0.34	FA_StdC REF	Z	0.33	0.33	—
94334	C	0.78	—	0.71	98457	C	0.23	—	0.31					
94335	C	0.40	—	0.56	98458	C	0.11	—	0.16					
94336	C	0.34	—	0.49	98464	C	0.31	—	0.42					
94337	C	0.42	—	0.51	98465	C	0.04	—	<0.01					
94338	C	0.41	—	0.73	98466	C	0.17	—	0.17					
94339	C	0.49	—	0.79	98467	C	0.07	—	0.07					
94340	C	0.11	—	0.51	98468	C	0.30	—	0.30					
94341	C	0.12	—	0.48	98469	C	0.39	—	0.40					
94342	C	0.13	—	0.51	98470	C	0.40	—	0.41					
94343	C	0.13	—	0.40	98471	C	0.34	—	0.37					
94344	C	0.09	—	0.49	98472	C	0.24	—	0.47					
94345	C	0.09	—	0.39	98473	C	0.46	—	0.49					
94346	C	0.19	—	0.36	98474	C	0.61	—	0.57					
94347	C	0.22	—	0.55	98475	C	0.38	—	0.49					
94348	C	0.26	—	0.65	98476	C	0.66	—	0.62					
94349	C	0.20	—	0.54	98477	C	0.50	—	0.59					
94350	C	0.26	—	0.65	98478	C	0.48	—	0.51					
94351	C	0.01	—	0.01	98479	C	0.45	—	0.48					
94352	C	0.02	—	0.01	98480 Pulp	P	0.71	—	0.90					
94353	C	0.06	—	0.12	98481	C	0.53	—	0.32					
94354	C	0.08	—	0.25	98482	C	0.42	—	0.43					
94355	C	0.01	—	0.02	98483	C	0.36	—	0.33					
94356	C	0.11	—	0.30	98484	C	0.17	—	0.22					
94357	C	0.06	—	0.07	98485	C	0.45	—	0.34					
94358	C	0.08	—	0.15	98486	C	0.41	—	0.34					
94359 Pulp	P	0.01	—	0.01	98487	C	0.68	—	0.51					
94360	C	0.08	—	0.12	98488	C	0.56	—	0.51					
94361	C	0.04	—	<0.01	99937	C	0.12	—	0.18					
94362	C	0.07	—	0.18	99938	C	0.12	—	0.19					
94363	C	0.10	—	0.12	99939	C	0.12	—	0.16					
94364	C	0.12	—	0.31	99940 Pulp	P	0.58	—	0.57					
94365	C	0.08	—	0.07	99941	C	0.16	—	0.22					
94366	C	0.28	—	0.80	RE 94332	R	0.70	—	1.00					
94367	C	0.35	—	0.71	RE 94351	R	0.02	—	0.01					
94368	C	0.31	—	0.85	RE 98455	R	0.15	—	0.15					
94369	C	0.21	—	0.77	RE 98479	R	0.44	—	0.48					
98454	C	0.19	—	0.18	Blank iPL	Z	<0.01	—	<0.01					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

03J1778

Name: _____
 Company: _____
 Phone: (604) 879-7878
 Fax: (604) 879-7898
 Email: iplab@telus.net
 [177816:33:42:30110203:002]

INTERNATIONAL PLASMA LABORATORY LTD

70 Samples Out: Oct 31, 2003 In: Oct 27, 2003

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	67	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary
 Analysis: Au(FA/AAS) Assay Cu

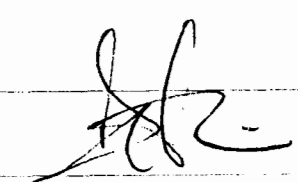
#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Attn: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net	
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Attn: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net	
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Attn: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com	

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 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03J1778

Canada
Phone (604) 879-7878
Fax (604) 879-7898
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Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project: Red Chris

70 Samples

Ship# 67=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [177816:33:42:30110203:002]

Out: Oct 31, 2003
In : Oct 27, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
94370	C	0.27	---	0.72	99926	C	0.10	---	0.14		
94371	C	0.23	---	0.66	99927	C	0.13	---	0.21		
94372	C	0.26	---	0.71	99928	C	0.11	---	0.13		
94373	C	0.34	---	0.64	99929	C	0.14	---	0.17		
94374	C	0.14	---	0.33	99930	C	0.28	---	0.22		
94375	C	0.13	---	0.20	99931	C	0.13	---	0.13		
94376	C	0.14	---	0.23	99932	C	0.22	---	0.19		
94377	C	0.21	---	0.28	99933	C	0.20	---	0.21		
94378	C	0.17	---	0.30	99934	C	0.13	---	0.23		
94379	Pulp	P	0.29	---	0.35	99935	C	0.09	---	0.24	
94380	C	0.12	---	0.23	99936	C	0.14	---	0.21		
94381	C	0.17	---	0.30	99947	C	0.08	---	0.12		
94382	C	0.13	---	0.19	99948	C	0.04	---	0.05		
94383	C	0.14	---	0.20	99949	C	0.03	---	0.05		
94384	C	0.21	---	0.22	99950	C	0.03	---	0.06		
94385	C	0.21	---	0.25	99951	C	0.09	---	0.12		
94386	C	0.15	---	0.20	99952	C	0.12	---	0.07		
94387	C	0.15	---	0.24	99953	C	0.10	---	0.06		
94388	C	0.66	---	0.87	99954	C	0.07	---	0.07		
94389	C	0.58	---	0.81	99955	C	0.09	---	0.09		
98449	C	0.33	---	0.31	99956	C	0.12	---	0.14		
98450	C	0.25	---	0.23	99957	C	0.09	---	0.09		
98451	C	0.29	---	0.30	99958	C	0.08	---	0.06		
98452	C	0.31	---	0.37	99959	C	0.04	---	0.05		
98453	C	0.24	---	0.22	99960	Pulp	P	0.01	---	0.01	
98459	C	0.19	---	0.24	99961	C	0.11	---	0.13		
98460	Pulp	P	0.30	---	0.34	99962	C	0.12	---	0.17	
98461	C	0.06	---	0.09	99963	C	0.13	---	0.16		
98462	C	0.13	---	0.19	99964	C	0.10	---	0.10		
98463	C	0.35	---	0.46	99965	C	0.07	---	0.09		
98489	C	0.46	---	0.38	99966	C	0.12	---	0.13		
98490	C	0.30	---	0.23	RE 94370	R	0.09	---	0.72		
98491	C	0.15	---	0.16	RE 94389	R	0.57	---	0.82		
98492	C	0.10	---	0.11	RE 99926	R	0.09	---	0.14		
98493	C	0.13	---	0.17	RE 99955	R	0.10	---	0.09		
99922	C	0.11	---	0.19	Blank iPL	Z	<0.01	---	<0.01		
99923	C	0.13	---	0.25	FA StdC	Z	0.35	---	---		
99924	C	0.25	---	0.30	FA StdC REF	Z	0.33	0.33	---		
99925	C	0.22	---	0.34							

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

in L 03J1789

INTERNATIONAL PLASMA LABORATORY LTD

Phone (604) 683-7878
Fax (604) 679-7898
E-mail iplab@telus.net
[178909:19:22:30110403:003]

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

72 Samples

Out: Nov 02, 2003 In: Oct 28, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	70	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary
Analysis: Au(FA/AAS) Assay Cu

Document Distribution

- 1 Red Chris Development Company Ltd. EN RT CC IN FX ##
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Canada
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- 2 bcMetals EN RT CC IN FX
488 - 625 Howe Street 1 2 1 2 1
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ian Smith Ph:(604)683-0140
Fx:(604)683-0126
Em:smithib@attglobal.net
- 3 bcMetals EN RT CC IN FX
488 - 625 Howe Street 1 2 1 2 1
Vancouver DL 3D EM BT BL
B.C. V6C 2T6 0 0 1 0 0
Canada
Att: Ron Simpson Ph:(604)683-0140
Fx:(604)683-0126
Em:rgs@uniserve.com

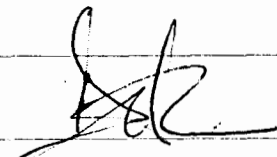
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03J1789

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Email iplab@telus.net
Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

72 Samples

Ship# 70=Core 2=Pulp 4=Repeat 1=Blk iPL 1 [178909:19:22:30110403:003]

Out: Nov 02, 2003
In : Oct 28, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
94390	C	0.58	—	0.97	98523	C	0.22	—	1.29	FA_StdC REF	Z	0.33	0.33	—
94391	C	0.17	—	0.27	98524	C	0.24	—	0.98					
94392	C	0.18	—	0.27	98525	C	0.18	—	0.95					
94393	C	0.15	—	0.31	98526	C	0.28	—	1.32					
94394	C	0.06	—	0.07	98527	C	0.29	—	1.06					
94395	C	0.07	—	0.11	98528	C	0.20	—	1.01					
94396	C	0.07	—	0.14	98529	C	0.32	—	0.84					
94397	C	0.06	—	0.12	98530	C	0.21	—	0.59					
94398	C	0.05	—	0.08	98531	C	0.21	—	0.62					
94399 Pulp	P	0.55	—	0.56	98532	C	0.27	—	0.57					
94400	C	0.04	—	0.06	98533	C	0.20	—	0.76					
94401	C	0.04	—	0.06	98534	C	0.18	—	0.42					
94402	C	0.06	—	0.07	98535	C	0.12	—	0.30					
94403	C	0.06	—	0.08	99967	C	0.10	—	0.09					
94404	C	0.05	—	0.05	99968	C	0.12	—	0.14					
94405	C	0.04	—	0.03	99969	C	0.16	—	0.17					
94406	C	0.04	—	0.07	99970	C	0.12	—	0.13					
94407	C	0.06	—	0.07	99971	C	0.16	—	0.19					
94408	C	0.05	—	0.07	99972	C	0.14	—	0.16					
94409	C	0.08	—	0.10	99973	C	0.11	—	0.13					
94415	C	0.29	—	0.52	99974	C	0.15	—	0.19					
94416	C	0.20	—	0.35	99975	C	0.12	—	0.13					
94417	C	0.14	—	0.19	99976	C	0.16	—	0.16					
94418	C	0.10	—	0.14	99977	C	0.19	—	0.17					
94419	C	0.70	—	0.91	99978	C	0.20	—	0.16					
98494	C	0.09	—	0.12	99979	C	0.25	—	0.21					
98495	C	0.09	—	0.11	99980 Pulp	P	0.75	—	0.96					
98501	C	0.34	—	0.53	99981	C	0.35	—	0.28					
98502	C	0.11	—	0.46	99982	C	0.34	—	0.27					
98503	C	0.12	—	0.33	99983	C	0.17	—	0.14					
98504	C	0.21	—	0.56	99984	C	0.23	—	0.17					
98505	C	0.12	—	0.24	99985	C	0.21	—	0.15					
98506	C	0.18	—	0.41	99986	C	0.13	—	0.14					
98507	C	0.19	—	0.32	RE 94390	R	0.60	—	0.98					
98508	C	0.02	—	0.02	RE 94409	R	0.12	—	0.10					
98509	C	0.13	—	0.48	RE 98523	R	0.21	—	1.30					
98510	C	0.13	—	0.49	RE 99973	R	0.12	—	0.13					
98521	C	0.22	—	0.89	Blank iPL	Z	<0.01	—	<0.01					
98522	C	0.19	—	0.92	FA_StdC	Z	0.35	—	—					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyHuA	FA/AAS	FAGrav	AsyHuA	FA/AAS	FAGrav	AsyHuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Recheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

ii - 03J1793

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 [179309:20:48:30110403:002]

INTERNATIONAL PLASMA LABORATORY LTD.

74 Samples

Out: Nov 02, 2003 In: Oct 28, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	69	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	5	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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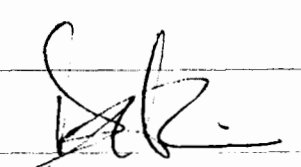
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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu





INTERNATIONAL PLASMA LABORATORY LTD

CERTIFICATE OF ANALYSIS

iPL 3J1793

Canada
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Page 1 of 1

Client : bcMetals
Project: Red Chris

74 Samples

Ship# 69=Core 5=Pulp 4=Repeat 1=Blk iPL 1 [179309:20:48:30110403:002]

Out: Nov 02, 2003
In : Oct 28, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
94420	C	0.12	—	0.18	98555	C	0.22	—	0.36	Blank iPL	Z	<0.01	—	<0.01
94421	C	0.06	—	0.08	98556	C	0.12	—	0.19	FA StdC	Z	0.33	—	—
94422	C	0.13	—	0.20	98557	C	0.10	—	0.17	FA StdC REF	Z	0.33	0.33	—
94423	C	0.11	—	0.14	98558	C	0.15	—	0.15					
94424	C	0.20	—	0.27	98559	C	0.22	—	0.31					
94430	C	0.84	—	0.88	98560 Pulp	P	0.58	—	0.55					
94431	C	1.25	1.28	1.01	98561	C	0.24	—	0.37					
94432	C	0.93	—	0.97	98562	C	0.25	—	0.24					
94433	C	0.17	—	0.20	98563	C	0.17	—	0.22					
94434	C	0.11	—	0.16	98564	C	0.65	—	0.98					
94435	C	0.09	—	0.17	98565	C	0.55	—	0.88					
94436	C	0.28	—	0.33	98591	C	0.77	—	0.53					
94437	C	0.11	—	0.17	98592	C	0.94	—	1.03					
94438	C	0.11	—	0.14	98593	C	0.85	—	0.69					
94439 Pulp	P	0.58	—	0.56	98594	C	0.80	—	0.58					
96137	C	0.12	—	0.20	98595	C	1.22	1.23	1.03					
96138	C	0.19	—	0.32	99942	C	0.15	—	0.16					
96139	C	0.17	—	0.25	99943	C	0.15	—	0.16					
96140 Pulp	P	0.69	—	0.95	99944	C	0.09	—	0.16					
96141	C	0.19	—	0.28	99945	C	0.19	—	0.15					
98536	C	0.15	—	0.32	99946	C	0.12	—	0.20					
98537	C	0.10	—	0.17	99987	C	0.19	—	0.17					
98538	C	0.10	—	0.25	99988	C	0.18	—	0.13					
98539	C	0.12	—	0.22	99989	C	0.12	—	0.11					
98540 Pulp	P	0.74	—	0.96	99990	C	0.11	—	0.08					
98541	C	0.06	—	0.09	99991	C	0.10	—	0.09					
98542	C	0.08	—	0.19	99992	C	0.23	—	0.20					
98543	C	0.02	—	0.02	99993	C	0.25	—	0.22					
98544	C	0.15	—	0.24	99994	C	0.29	—	0.15					
98545	C	0.02	—	0.01	99995	C	0.27	—	0.20					
98546	C	0.05	—	0.10	99996	C	0.29	—	0.23					
98547	C	0.02	—	<0.01	99997	C	0.23	—	0.18					
98548	C	0.02	—	<0.01	99998	C	0.17	—	0.13					
98549	C	0.01	—	<0.01	99999	C	0.14	—	0.12					
98550	C	0.13	—	0.30	100000 Pulp	P	0.30	—	0.35					
98551	C	0.14	—	0.32	RE 94420	R	0.12	—	0.17					
98552	C	0.12	—	0.21	RE 96141	R	0.18	—	0.27					
98553	C	0.09	—	0.14	RE 98555	R	0.21	—	0.35					
98554	C	0.10	—	0.15	RE 99945	R	0.18	—	0.14					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyHuA	FA/AAS	FAGrav	AsyHuA	FA/AAS	FAGrav	AsyHuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iL 03J1795

INTERNATIONAL PLASMA LABORATORY LTD

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 Page 1 of 1

Client : bcMetals
Project: Red Chris

75 Samples
 Ship# 71=Core 4=Pulp 4=Repeat 1=Blk iPL 1 [179509:21:12:30110403:002]

Out: Nov 02, 2003
 In : Oct 28, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
94410	C	0.09	—	0.10	98515	C	0.02	—	0.01	RE 98584	R	1.33	—	1.03
94411	C	0.16	—	0.21	98516	C	0.03	—	0.01	Blank iPL	Z	<0.01	—	<0.01
94412	C	0.14	—	0.15	98517	C	0.20	—	0.03	FA StdC	Z	0.35	—	—
94413	C	0.09	—	0.06	98518	C	0.14	—	0.60	FA_StdC REF	Z	0.33	0.33	—
94414	C	0.08	—	0.08	98519	C	0.13	—	0.39					
94425	C	0.13	—	0.19	98520 Pulp	P	0.02	—	0.01					
94426	C	0.10	—	0.17	98566	C	0.35	—	0.42					
94427	C	0.63	—	0.97	98567	C	0.61	—	0.88					
94428	C	0.83	—	0.98	98568	C	0.31	—	0.50					
94429	C	1.49	1.25	1.17	98569	C	0.24	—	0.24					
94440	C	0.14	—	0.14	98570	C	0.45	—	0.52					
94441	C	0.47	—	0.55	98571	C	0.36	—	0.41					
94442	C	0.50	—	0.57	98572	C	0.41	—	0.44					
94443	C	0.82	—	1.22	98573	C	0.32	—	0.32					
94444	C	0.45	—	0.61	98574	C	0.66	—	0.63					
94455	C	0.04	—	0.02	98575	C	0.71	—	0.76					
94456	C	0.06	—	0.01	98581	C	0.70	—	0.61					
94457	C	0.04	—	0.02	98582	C	0.91	—	1.09					
94458	C	0.06	—	0.02	98583	C	1.15	1.17	0.97					
94459 Pulp	P	0.02	—	0.01	98584	C	1.29	1.36	1.02					
94460	C	0.03	—	0.02	98585	C	0.87	—	0.67					
94461	C	0.04	—	0.02	98586	C	1.18	1.33	0.97					
94462	C	0.06	—	0.01	98587	C	0.50	—	0.46					
94463	C	0.03	—	0.01	98588	C	0.89	—	0.98					
94464	C	0.04	—	0.02	98589	C	0.82	—	0.84					
96132	C	0.15	—	0.27	98590	C	0.74	—	0.59					
96133	C	0.15	—	0.26	98601	C	1.38	1.46	1.05					
96134	C	0.16	—	0.20	98602	C	0.63	—	0.52					
96135	C	0.15	—	0.23	98603	C	1.20	1.59	0.94					
96136	C	0.16	—	0.20	98604	C	1.84	1.92	1.39					
98496	C	0.16	—	0.34	98605	C	1.23	1.21	1.05					
98497	C	0.18	—	0.42	98616	C	0.43	—	0.36					
98498	C	0.15	—	0.42	98617	C	0.52	—	0.40					
98499	C	0.28	—	0.60	98618	C	0.60	—	0.41					
98500 Pulp	P	0.55	—	0.54	98619	C	0.62	—	0.46					
98511	C	0.23	—	0.65	98620 Pulp	P	0.56	—	0.54					
98512	C	0.25	—	0.92	RE 94410	R	0.10	—	0.10					
98513	C	0.06	—	0.02	RE 94459 Pulp	R	0.03	—	0.01					
98514	C	0.03	—	0.01	RE 98515	R	0.02	—	0.01					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Decay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03J1799

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[179909:21:45:30110403:002]

INTERNATIONAL PLASMA LABORATORY LTD

47 Samples

Out: Nov 02, 2003 In: Oct 29, 2003

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	46	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	1	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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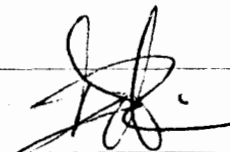
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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

03J1799

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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

47 Samples

Ship#

46=Core 1=Pulp 3=Repeat 1=Blk iPL 1 [179909:21:45:30110403:002]

Out: Nov 02, 2003
In : Oct 29, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
94445	C	0.70	—	1.07	98624	C	0.38	—	0.30		
94446	C	0.33	—	0.40	98625	C	0.48	—	0.38		
94447	C	0.26	—	0.32	98626	C	0.44	—	0.36		
94448	C	0.18	—	0.28	98627	C	0.11	—	0.15		
94449	C	0.10	—	0.12	98628	C	0.17	—	0.13		
94450	C	0.05	—	0.04	98629	C	0.11	—	0.13		
94451	C	0.11	—	0.08	98630	C	0.12	—	0.17		
94452	C	0.03	—	0.03	98631	C	0.09	—	0.11		
94453	C	0.05	—	0.04	RE 94445	R	0.70	—	1.05		
94454	C	0.05	—	0.02	RE 98579	R	0.34	—	0.26		
94465	C	0.04	—	0.02	RE 98624	R	0.37	—	0.30		
94466	C	0.04	—	0.01	Blank iPL	Z	<0.01	—	<0.01		
94467	C	0.04	—	0.02	FA StdC	Z	0.32	—	—		
94468	C	0.05	—	0.03	FA StdC REF	Z	0.33	0.33	—		
94469	C	0.04	—	0.02							
94470	C	0.10	—	0.11							
98576	C	0.40	—	0.41							
98577	C	0.60	—	0.46							
98578	C	0.69	—	0.85							
98579	C	0.35	—	0.26							
98580 Pulp	P	0.31	—	0.35							
98596	C	1.23	1.26	1.06							
98597	C	0.97	—	1.08							
98598	C	0.77	—	0.55							
98599	C	0.91	—	0.74							
98600	C	0.02	—	0.02							
98606	C	0.95	—	0.80							
98607	C	1.07	1.20	0.94							
98608	C	0.02	—	0.01							
98609	C	1.73	1.80	1.54							
98610	C	0.13	—	0.10							
98611	C	0.25	—	0.22							
98612	C	1.10	0.99	0.99							
98613	C	0.13	—	0.10							
98614	C	0.18	—	0.18							
98615	C	0.05	—	0.04							
98621	C	0.59	—	0.46							
98622	C	0.85	—	0.60							
98623	C	0.46	—	0.32							

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyHuA	FA/AAS	FAGrav	AsyHuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck n=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

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 Fax: (604) 879-7808
 Email: iplab@telus.net
 [180215:28:38:30110703:002]

INTERNATIONAL TRADING LABORATORY LTD

75 Samples

Out: Nov 02, 2003 In: Oct 30, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	70	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	5	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS

i. 03J1802

INTERNATIONAL PLASMA LABORATORY LTD

Phone (601) 870-2828
Fax (601) 870-2808
Email: iplab@telus.net

Client : bcMetals
Project: Red Chris

75 Samples
70=Core 5=Pulp 4=Repeat 1=Blk iPL 1 [180215:28:38:30110703:002]

Out: Nov 02, 2003
In : Oct 30, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
94471	C	0.09	—	0.14	94525	C	0.13	—	0.31	RE 96160 Pulp	R	0.02	—	0.02
94472	C	0.15	—	0.14	96142	C	0.18	—	0.30	Blank iPL	Z	<0.01	—	—
94473	C	0.09	—	0.12	96143	C	0.11	—	0.18	FA StdC	Z	0.32	—	—
94474	C	0.08	—	0.12	96144	C	0.03	—	<0.01	FA_StdC REF	Z	0.33	0.33	—
94475	C	0.08	—	0.14	96145	C	0.03	—	<0.01					
94476	C	0.10	—	0.14	96146	C	0.02	—	<0.01					
94477	C	0.20	—	0.45	96147	C	0.02	—	<0.01					
94478	C	0.17	—	0.28	96148	C	0.03	—	<0.01					
94479	C	0.27	—	0.32	96149	C	0.04	—	<0.01					
94480 Pulp	P	0.74	—	0.87	96150	C	0.13	—	0.17					
94481	C	0.19	—	0.24	96151	C	0.11	—	0.19					
94482	C	0.14	—	0.24	96152	C	0.13	—	0.19					
94483	C	0.16	—	0.22	96153	C	0.13	—	0.16					
94484	C	0.21	—	0.29	96154	C	0.12	—	0.15					
94485	C	0.18	—	0.26	96155	C	0.13	—	0.28					
94486	C	0.24	—	0.20	96156	C	0.11	—	0.17					
94487	C	0.18	—	0.27	96157	C	0.12	—	0.17					
94488	C	0.62	—	1.09	96158	C	0.11	—	0.23					
94489	C	0.49	—	1.54	96159	C	0.10	—	0.17					
94490	C	0.53	—	0.94	96160 Pulp	P	0.01	—	0.01					
94491	C	0.46	—	0.77	96161	C	0.13	—	0.35					
94492	C	0.59	—	1.17	96167	C	0.13	—	0.22					
94493	C	0.49	—	0.83	96168	C	0.12	—	0.20					
94494	C	0.77	—	1.13	96169	C	0.22	—	0.35					
94495	C	0.58	—	0.87	96170	C	0.20	—	0.32					
94496	C	0.62	—	0.75	96171	C	0.14	—	0.29					
94497	C	0.71	—	0.82	96172	C	0.20	—	0.32					
94498	C	0.58	—	0.87	96173	C	0.14	—	0.25					
94499	C	0.76	—	1.58	96174	C	0.13	—	0.21					
94500 Pulp	P	0.02	—	0.02	96175	C	0.02	—	<0.01					
94516	C	0.13	—	0.26	96176	C	0.08	—	0.07					
94517	C	0.14	—	0.24	96177	C	0.02	—	<0.01					
94518	C	0.16	—	0.34	96178	C	0.02	—	<0.01					
94519	C	0.36	—	0.60	96179	C	0.02	—	0.01					
94520 Pulp	P	0.30	—	0.35	96180 Pulp	P	0.30	—	0.34					
94521	C	0.14	—	0.29	96181	C	0.02	—	<0.01					
94522	C	0.26	—	0.41	RE 94471	R	0.09	—	0.14					
94523	C	0.21	—	0.35	RE 94490	R	0.54	—	0.98					
94524	C	0.11	—	0.24	RE 94525	R	0.14	—	0.31					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03J1803

Date: 2003-11-06
 Time: 07:30:07
 File: 180315-28:07:30110703:002
 Email: smithib@attglobal.net
 [180315:28:07:30110703:002]

INTERNATIONAL ISOTOPE LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

126 Samples

Out: Nov 06, 2003 In: Oct 30, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	126	Pulp	Pulp received as it is, no sample prep.	12H/Dis	00M/Dis
B84100	7	Repeat	Repeat sample - no Charge	12H/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary
 Analysis: Au(FA/AAS) Assay Cu

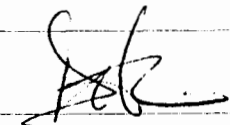
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0 0 0 0 0 | Ph: (604)683-0140
Fx: (604)683-0126
Em: smithib@attglobal.net |
| <p>2 bcMetals
 488 - 625 Howe Street
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 B.C. V6C 2T6
 Canada
 Att: Ian Smith</p> | EN RT CC IN FX
1 2 1 2 1
DL 3D EM BT BL
0 0 1 0 0 | Ph: (604)683-0140
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| <p>3 bcMetals
 488 - 625 Howe Street
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 B.C. V6C 2T6
 Canada
 Att: Ron Simpson</p> | EN RT CC IN FX
1 2 1 2 1
DL 3D EM BT BL
0 0 1 0 0 | Ph: (604)683-0140
Fx: (604)683-0126
Em: rgs@uniserive.com |

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) HD=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03J1803

Phone: 001 970 7909
 Fax: 001 970 7908
 Email: iplab@telus.net

INTERNATIONAL PLASMA LABORATORIES LTD

Client : bcMetals
Project: Red Chris

126 Samples

Ship# 126=Pulp 7=Repeat 1=Blk iPL 1=Std iPL [180315:28:07:30110703:002]

Out: Nov 06, 2003
In : Oct 30, 2003

Page 1 of 2

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %			
RedChrisMaster	1	P	0.91	—	0.88	RedChrisMaster	40	P	0.33	—	0.38	RedChrisMaster	79	P	0.20	—	0.16
RedChrisMaster	2	P	0.05	—	0.07	RedChrisMaster	41	P	0.19	—	0.49	RedChrisMaster	80	P	2.13	2.26	1.27
RedChrisMaster	3	P	0.39	—	0.63	RedChrisMaster	42	P	0.39	—	0.46	RedChrisMaster	81	P	1.44	1.48	1.29
RedChrisMaster	4	P	0.21	—	0.29	RedChrisMaster	43	P	0.70	—	1.00	RedChrisMaster	82	P	0.20	—	0.20
RedChrisMaster	5	P	0.23	—	0.45	RedChrisMaster	44	P	0.53	—	0.53	RedChrisMaster	83	P	0.36	—	0.32
RedChrisMaster	6	P	0.14	—	0.20	RedChrisMaster	45	P	0.06	—	0.03	RedChrisMaster	84	P	0.10	—	0.10
RedChrisMaster	7	P	0.05	—	0.03	RedChrisMaster	46	P	0.14	—	0.15	RedChrisMaster	85	P	0.17	—	0.20
RedChrisMaster	8	P	0.31	—	0.53	RedChrisMaster	47	P	0.34	—	0.23	RedChrisMaster	86	P	0.68	—	0.71
RedChrisMaster	9	P	0.85	—	1.71	RedChrisMaster	48	P	0.86	—	0.83	RedChrisMaster	87	P	0.35	—	1.56
RedChrisMaster	10	P	0.08	—	0.07	RedChrisMaster	49	P	0.10	—	0.07	RedChrisMaster	88	P	0.23	—	0.38
RedChrisMaster	11	P	0.53	—	0.50	RedChrisMaster	50	P	2.77	2.58	2.24	RedChrisMaster	89	P	0.24	—	0.29
RedChrisMaster	12	P	0.51	—	0.86	RedChrisMaster	51	P	0.29	—	0.29	RedChrisMaster	90	P	0.01	—	0.02
RedChrisMaster	13	P	0.04	—	0.08	RedChrisMaster	52	P	0.09	—	0.04	RedChrisMaster	91	P	0.20	—	0.36
RedChrisMaster	14	P	1.53	1.55	1.66	RedChrisMaster	53	P	0.11	—	0.07	RedChrisMaster	92	P	0.36	—	0.41
RedChrisMaster	15	P	0.44	—	0.55	RedChrisMaster	54	P	0.30	—	0.52	RedChrisMaster	93	P	1.79	1.95	1.34
RedChrisMaster	16	P	0.18	—	0.31	RedChrisMaster	55	P	0.01	—	0.01	RedChrisMaster	94	P	0.34	—	0.38
RedChrisMaster	17	P	0.23	—	0.66	RedChrisMaster	56	P	0.97	—	1.33	RedChrisMaster	95	P	0.03	—	0.08
RedChrisMaster	18	P	0.22	—	0.27	RedChrisMaster	57	P	0.79	—	1.07	RedChrisMaster	96	P	0.49	—	0.57
RedChrisMaster	19	P	0.09	—	0.11	RedChrisMaster	58	P	0.46	—	0.31	RedChrisMaster	97	P	0.21	—	0.33
RedChrisMaster	20	P	0.54	—	0.47	RedChrisMaster	59	P	0.91	—	1.12	RedChrisMaster	98	P	1.38	1.48	0.88
RedChrisMaster	21	P	0.52	—	0.56	RedChrisMaster	60	P	0.70	—	0.68	RedChrisMaster	99	P	0.17	—	0.53
RedChrisMaster	22	P	0.65	—	1.11	RedChrisMaster	61	P	0.87	—	1.13	RedChrisMaster	100	P	0.26	—	0.71
RedChrisMaster	23	P	0.07	—	0.18	RedChrisMaster	62	P	0.16	—	0.18	RedChrisMaster	101	P	0.06	—	0.04
RedChrisMaster	24	P	0.30	—	0.36	RedChrisMaster	63	P	0.19	—	0.32	RedChrisMaster	102	P	0.64	—	0.68
RedChrisMaster	25	P	0.15	—	0.20	RedChrisMaster	64	P	0.21	—	0.35	RedChrisMaster	103	P	0.37	—	0.32
RedChrisMaster	26	P	0.48	—	0.64	RedChrisMaster	65	P	0.20	—	0.14	RedChrisMaster	104	P	0.20	—	0.26
RedChrisMaster	27	P	0.14	—	0.20	RedChrisMaster	66	P	0.27	—	0.39	RedChrisMaster	105	P	0.30	—	0.48
RedChrisMaster	28	P	0.29	—	0.45	RedChrisMaster	67	P	0.08	—	0.04	RedChrisMaster	106	P	0.24	—	0.45
RedChrisMaster	29	P	0.44	—	0.38	RedChrisMaster	68	P	0.02	—	0.01	RedChrisMaster	107	P	0.84	—	0.66
RedChrisMaster	30	P	0.27	—	0.70	RedChrisMaster	69	P	0.01	—	0.01	RedChrisMaster	108	P	0.11	—	0.16
RedChrisMaster	31	P	0.35	—	0.30	RedChrisMaster	70	P	0.39	—	0.13	RedChrisMaster	109	P	0.20	—	0.19
RedChrisMaster	32	P	0.16	2.91	0.26	RedChrisMaster	71	P	0.66	—	0.74	RedChrisMaster	110	P	0.23	—	0.29
RedChrisMaster	33	P	2.84	—	2.99	RedChrisMaster	72	P	0.45	—	0.44	RedChrisMaster	111	P	0.13	—	0.19
RedChrisMaster	34	P	0.04	—	0.06	RedChrisMaster	73	P	3.02	3.40	2.05	RedChrisMaster	112	P	0.18	—	0.17
RedChrisMaster	35	P	0.38	—	0.38	RedChrisMaster	74	P	0.05	—	<0.01	RedChrisMaster	113	P	0.11	—	0.07
RedChrisMaster	36	P	0.10	—	0.06	RedChrisMaster	75	P	0.09	—	0.21	RedChrisMaster	114	P	0.89	—	1.61
RedChrisMaster	37	P	0.36	—	0.39	RedChrisMaster	76	P	0.25	—	0.21	RedChrisMaster	115	P	0.19	—	0.34
RedChrisMaster	38	P	0.38	—	0.44	RedChrisMaster	77	P	3.36	4.02	2.49	RedChrisMaster	116	P	0.09	—	0.09
RedChrisMaster	39	P	0.61	—	0.65	RedChrisMaster	78	P	0.32	—	0.64	RedChrisMaster	117	P	0.10	—	0.15

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Ret Check m=×1000 %=Estimate % NS=No Sample P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL J3J1803

INTERNATIONAL PLASMA LABORATORY LTD.

Phone: 0011 970 7898
 Fax: 0011 970 7898
 Email: iplab@telus.net

Client : bcMetals
 Project: Red Chris

Ship# 126=Pulp 7=Repeat 1=Blk iPL 1=Std iPL [180315:28:07:30110703:002]

Out: Nov 06, 2003
 In : Oct 30, 2003

Page 2 of 2

Sample Name	Au	Au	Cu	Sample Name	Au	Au	Cu	Sample Name	Au	Au	Cu
	g/mt	g/mt	%		g/mt	g/mt	%		g/mt	g/mt	%
RedChrisMaster 118	P	0.55	—	0.40							
RedChrisMaster 119	P	0.08	—	0.15							
RedChrisMaster 120	P	1.16	2.01	1.00							
RedChrisMaster 121	P	0.09	—	0.12							
RedChrisMaster 122	P	0.26	—	0.24							
RedChrisMaster 123	P	0.42	—	0.42							
RedChrisMaster 124	P	3.08	3.54	2.03							
RedChrisMaster 125	P	0.09	—	0.06							
RedChrisMaster 126	P	0.37	—	0.67							
RE RedChrisMaster 1 R		0.92	—	0.88							
RE RedChrisMaster 20 R		0.56	—	0.47							
RE RedChrisMaster 40 R		0.31	—	0.39							
RE RedChrisMaster 59 R		0.90	—	1.14							
RE RedChrisMaster 79 R		0.18	—	0.18							
RE RedChrisMaster 98 R		1.38	—	0.87							
RE RedChrisMaster 118 R		0.55	—	0.40							
Blank iPL	Z	<0.01	—	—							
FA_StdC	Z	0.32	—	—							
FA_StdC REF	Z	0.33	0.33	—							

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 3J1803 (R)

Canada 8.1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [180314:05:25:30111203:003]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

126 Samples

Out: Nov 06, 2003 In: Oct 30, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	126	Pulp	Pulp received as it is. no sample prep.	12M/Dis	00M/Dis
B84100	7	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

1	2	3	EN	RT	CC	IN	FX
Red Chris Development Company Ltd.	bcMetals	bcMetals	1	2	0	2	0
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Canada	Canada	Canada					
Att: Account Payable	Att: Ian Smith	Att: Ron Simpson					
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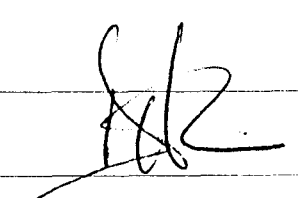
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03J1803 (R)

TELUS
 (403) 279-7978
 Fax: (403) 279-7898
 Email: iplab@telus.net
 Page 2 of 2

INTERNATIONAL PLASMA LABORATORY LTD.

Client: bcMetals
Project: Red Chris

126 Samples
 Ship# 126=Pulp 7=Repeat 1=Blk iPL 1=Std iPL [180314:05:25:30111203:003]

Out: Nov 06, 2003
 In: Oct 30, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
RedChrisMaster 118	P	0.55	—	0.40										
RedChrisMaster 119	P	0.08	—	0.15										
RedChrisMaster 120	P	1.16	2.01	1.00										
RedChrisMaster 121	P	0.09	—	0.12										
RedChrisMaster 122	P	0.26	—	0.24										
RedChrisMaster 123	P	0.42	—	0.42										
RedChrisMaster 124	P	3.08	3.54	2.03										
RedChrisMaster 125	P	0.09	—	0.06										
RedChrisMaster 126	P	0.37	—	0.67										
RE RedChrisMaster	1 R	0.92	—	0.88										
RE RedChrisMaster	20 R	0.56	—	0.47										
RE RedChrisMaster	40 R	0.31	—	0.39										
RE RedChrisMaster	59 R	0.90	—	1.14										
RE RedChrisMaster	79 R	0.18	—	0.18										
RE RedChrisMaster	98 R	1.38	—	0.87										
RE RedChrisMaster	118 R	0.55	—	0.40										
Blank iPL	Z	<0.01	—	—										
FA StdC	Z	0.32	—	—										
FA StdC REF	Z	0.33	0.33	—										

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

IP-03J1805

Phone (601) 879-2800
 Fax (601) 879-2808
 Email iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

75 Samples
 Ship# 72=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [180515:27:14:30110703:003]

Out: Nov 06, 2003
 In : Oct 30, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
94501	C	0.83	---	1.17	94550	C	0.27	---	0.66	RE 96185	R	0.14	---	0.21
94502	C	0.67	---	0.94	94551	C	0.15	---	0.38	Blank iPL	Z	<0.01	---	---
94503	C	0.59	---	0.94	94552	C	0.12	---	0.32	FA StdC	Z	0.33	---	---
94504	C	0.43	---	1.61	94553	C	0.10	---	0.23	FA_StdC REF	Z	0.33	0.33	---
94505	C	0.13	---	0.24	94554	C	0.16	---	0.34					
94506	C	0.02	---	0.02	94555	C	0.12	---	0.35					
94507	C	0.36	---	0.53	94556	C	0.09	---	0.19					
94508	C	0.03	---	0.02	94557	C	0.19	---	0.55					
94509	C	0.08	---	0.10	94558	C	0.13	---	0.25					
94510	C	0.04	---	0.05	94559	C	0.20	---	0.52					
94511	C	0.10	---	0.15	94560 Pulp	P	0.73	---	0.85					
94512	C	0.13	---	0.22	96162	C	0.13	---	0.28					
94513	C	0.13	---	0.22	96163	C	0.17	---	0.11					
94514	C	0.13	---	0.23	96164	C	0.28	---	0.19					
94515	C	0.14	---	0.26	96165	C	0.25	---	0.29					
94526	C	0.20	---	0.34	96166	C	0.12	---	0.21					
94527	C	0.12	---	0.24	96182	C	0.15	---	<0.01					
94528	C	0.22	---	0.38	96183	C	0.01	---	<0.01					
94529	C	0.28	---	0.40	96184	C	0.12	---	0.16					
94530	C	0.24	---	0.38	96185	C	0.14	---	0.21					
94531	C	0.13	---	0.45	96186	C	0.19	---	0.40					
94532	C	0.22	---	0.34	96187	C	0.19	---	0.36					
94533	C	0.13	---	0.42	96188	C	0.20	---	0.43					
94534	C	0.11	---	0.50	96189	C	0.12	---	0.24					
94535	C	0.19	---	0.26	96190	C	0.12	---	0.25					
94536	C	0.12	---	0.24	96191	C	0.13	---	0.24					
94537	C	0.12	---	0.24	96192	C	0.15	---	0.24					
94538	C	0.15	---	0.26	96193	C	0.16	---	0.25					
94539	C	0.20	---	0.30	96194	C	0.13	---	0.22					
94540 Pulp	P	0.57	---	0.52	96195	C	0.20	---	0.35					
94541	C	0.28	---	0.36	96196	C	0.14	---	0.27					
94542	C	0.22	---	0.47	96197	C	0.12	---	0.27					
94543	C	0.18	---	0.46	96198	C	0.13	---	0.27					
94544	C	0.07	---	0.10	96199	C	0.23	---	0.38					
94545	C	0.06	---	0.10	96200 Pulp	P	0.56	---	0.52					
94546	C	0.28	---	0.61	96201	C	0.34	---	0.55					
94547	C	0.12	---	0.32	RE 94501	R	0.81	---	1.15					
94548	C	0.23	---	0.41	RE 94530	R	0.24	---	0.38					
94549	C	0.34	---	0.71	RE 94550	R	0.27	---	0.66					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 3J1811

Canada
 Phone: (604) 970-7000
 Fax: (604) 970-7000
 Email: iplabs@telus.net
 [181115:27:47:30110703:003]

INTERNATIONAL PLASMA LABORATORY LTD

65 Samples

Out: Nov 07, 2003 In: Oct 30, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

1 Red Chris Development Company Ltd. EN RT CC IN FX
 488 - 625 Howe Street 1 2 0 2 0
 Vancouver DL 3D EM BT BL
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 Fx: (604)683-0126
 Em: smithib@attglobal.net

2 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ian Smith Ph: (604)683-0140
 Fx: (604)683-0126
 Em: smithib@attglobal.net

3 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ron Simpson Ph: (604)683-0140
 Fx: (604)683-0126
 Em: rgs@uniserive.com

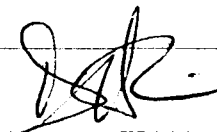
#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk

DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3J1811

INTERNATIONAL PLATING LABORATORY LTD

Canada 905
Phone (905) 879-7978
Fax (905) 879-7898
Email iplab@telus.net

Client : bcMetals
Project : Red Chris

65 Samples
62=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [181119:00:44:30110703:005]

Out: Nov 07, 2003
In : Oct 30, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
94561	C	0.18	—	0.83	94600 Pulp	P	0.30	—	0.35			
94562	C	0.25	—	0.95	94601	C	3.46	3.38	2.61			
94563	C	0.26	—	0.78	94602	C	3.40	3.45	2.17			
94564	C	0.15	—	0.37	94603	C	2.80	3.25	1.90			
94565	C	0.23	—	0.67	94604	C	3.88	4.43	2.21			
94566	C	0.35	—	0.97	94605	C	3.52	3.30	2.86			
94567	C	0.23	—	0.63	94606	C	2.99	2.97	2.07			
94568	C	0.24	—	0.41	94607	C	3.00	3.28	2.30			
94569	C	0.44	—	0.94	94608	C	2.22	2.54	1.56			
94570	C	0.69	—	1.32	94609	C	1.00	1.08	0.90			
94571	C	0.43	—	0.72	94610	C	1.39	1.58	1.44			
94572	C	0.35	—	0.53	94611	C	2.26	2.87	1.95			
94573	C	0.55	—	0.80	94612	C	1.47	1.68	1.46			
94574	C	0.52	—	0.74	94613	C	1.89	2.22	2.13			
94575	C	0.35	—	0.70	94614	C	1.82	2.03	1.71			
94576	C	0.40	—	0.65	94615	C	1.74	2.59	1.59			
94577	C	0.37	—	0.55	94616	C	1.70	2.15	1.69			
94578	C	0.48	—	0.62	94617	C	1.91	2.18	1.64			
94579	C	0.38	—	0.52	94618	C	1.47	1.83	1.32			
94580 Pulp	P	0.01	—	0.02	94619	C	1.17	1.42	1.19			
94581	C	0.75	—	1.01	94620 Pulp	P	0.55	—	0.54			
94582	C	2.20	2.20	2.16	94621	C	0.94	—	1.06			
94583	C	3.55	3.11	2.19	94622	C	1.01	1.18	1.12			
94584	C	3.89	3.99	2.56	94623	C	1.04	1.05	1.07			
94585	C	4.48	4.42	3.21	94624	C	0.63	—	0.74			
94586	C	3.35	3.37	2.83	94625	C	0.49	—	0.51			
94587	C	3.19	3.93	2.12	RE 94561	R	0.19	—	0.86			
94588	C	1.66	1.65	1.33	RE 94580 Pulp	R	<0.01	—	0.02			
94589	C	1.50	1.54	1.36	RE 94600 Pulp	R	0.29	—	0.34			
94590	C	1.67	1.64	1.34	RE 94619	R	1.14	—	1.17			
94591	C	1.92	2.03	1.96	Blank iPL	Z	<0.01	—	—			
94592	C	0.96	—	0.84	FA StdC	Z	0.35	—	—			
94593	C	2.28	2.68	1.78	FA StdC REF	Z	0.33	0.33	—			
94594	C	2.86	3.05	2.11								
94595	C	4.73	6.73	2.96								
94596	C	2.54	2.70	2.24								
94597	C	4.38	5.53	2.47								
94598	C	1.99	2.08	2.72								
94599	C	3.10	3.16	2.78								

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 3J1817

Canada J1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [181714:39:24:30111003:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

30 Samples

Out: Nov 06, 2003 In: Oct 31, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	29	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	1	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

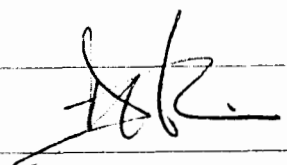
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 55J1817

Date: 11/06/2003
 Time: 10:00:00
 User: jpl
 Page 1 of 1

Client : bcMetals
 Project: Red Chris

30 Samples

29=Core 1=Pulp 2=Repeat 1=Blk iPL 1 [181714:36:05:30111003:002]

Out: Nov 06, 2003
 In : Oct 31, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
96202	C	0.18	—	0.30							
96203	C	0.31	—	0.44							
96204	C	0.32	—	0.52							
96205	C	0.20	—	0.31							
96206	C	0.29	—	0.40							
96207	C	0.38	—	0.61							
96208	C	0.44	—	0.55							
96209	C	0.66	—	0.78							
96210	C	0.39	—	0.54							
96211	C	0.47	—	0.67							
96212	C	0.78	—	0.92							
96213	C	0.88	—	1.02							
96214	C	0.73	—	0.82							
96215	C	0.55	—	0.81							
96216	C	0.37	—	0.46							
96217	C	0.41	—	0.54							
96218	C	0.67	—	0.84							
96219	C	0.96	—	1.24							
96220	C	0.93	—	1.20							
96221	Pulp P	0.01	—	0.01							
96222	C	0.79	—	0.89							
96223	C	1.40	1.29	1.15							
96224	C	1.31	1.33	0.98							
96225	C	1.09	1.25	1.13							
96226	C	0.86	—	0.87							
96227	C	1.08	1.10	0.50							
96228	C	0.42	—	0.45							
96229	C	0.59	—	0.69							
96230	C	0.33	—	0.79							
96231	C	0.28	—	0.44							
RE 96202	R	0.19	—	0.30							
RE 96221	Pulp R	0.01	—	0.02							
Blank iPL	Z	<0.01	—	—							
FA StdC	Z	0.34	—	—							
FA StdC REF	Z	0.33	0.33	—							

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

— =No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03J1831

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[183114:35:46:30111003:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

76 Samples

Out: Nov 07, 2003 In: Nov 03, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	72	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

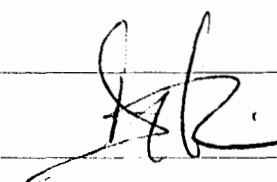
Document Distribution

1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	## Code Method Units Description Element Limit Low Limit High
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	01 0368 FA/AAS g/mt Au (FA/AAS 30g) g/mt Gold 0.01 9999.00 02 0364 FAGrav g/mt Au FA/Grav in g/mt Gold 0.07 9999.00 03 0113 AsyMuA % Cu Assay by AA/ICP in % Copper 0.01 100.00
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

id: 03J1831

Canada
Phone (604) 879-7878
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Email iplab@telus.net
Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project: Red Chris

76 Samples
72=Core 4=Pulp 4=Repeat 1=Blk iPL 1 [183114:35:46:30111003:002]

Out: Nov 07, 2003
In : Nov 03, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
94626	C	0.52	—	0.49	96235	C	0.28	—	0.25	RE 96235	R	0.34	—	0.26
94627	C	0.72	—	0.83	96236	C	0.34	—	0.36	RE 96254	R	0.35	—	0.30
94628	C	1.12	1.26	1.01	96237	C	0.02	—	0.01	Blank iPL	Z	<0.01	—	—
94629	C	0.95	—	0.99	96238	C	0.02	—	<0.01	FA StdC	Z	0.36	—	—
94630	C	0.98	—	1.15	96239	C	0.02	—	<0.01	FA StdC REF	Z	0.33	0.33	—
94631	C	1.02	1.21	1.21	96240	C	0.32	—	0.25					
94632	C	1.15	1.24	1.23	96241	Pulp P	0.30	—	0.34					
94633	C	0.74	—	0.92	96242	C	0.52	—	0.48					
94634	C	0.83	—	0.97	96243	C	0.28	—	0.67					
94635	C	0.60	—	0.73	96244	C	0.20	—	0.62					
94636	C	1.17	1.34	1.38	96245	C	0.23	—	0.49					
94637	C	1.03	1.20	1.60	96246	C	0.32	—	0.51					
94638	C	1.50	1.59	1.79	96247	C	0.19	—	0.66					
94639	C	0.98	—	1.25	96248	C	0.19	—	0.71					
94640	Pulp P	0.75	—	0.85	96249	C	0.20	—	0.56					
94641	C	0.59	—	0.58	96250	C	<0.01	—	0.02					
94642	C	0.57	—	0.69	96251	C	0.02	—	<0.01					
94643	C	1.01	1.22	1.15	96252	C	<0.01	—	<0.01					
94644	C	0.80	—	0.84	96253	C	0.01	—	<0.01					
94645	C	0.56	—	0.59	96254	C	0.33	—	0.30					
94646	C	0.44	—	0.53	96255	C	0.21	—	0.19					
94647	C	0.39	—	0.47	96256	C	0.20	—	0.38					
94648	C	0.35	—	0.44	96257	C	0.23	—	0.46					
94649	C	0.38	—	0.45	96258	C	0.25	—	0.62					
94650	C	0.42	—	0.54	96259	C	0.15	—	0.40					
94651	C	0.58	—	0.59	96260	C	0.17	—	0.46					
94652	C	0.99	—	0.97	96261	Pulp P	0.55	—	0.52					
94653	C	0.85	—	0.84	98643	C	0.09	—	0.09					
94654	C	1.09	1.29	1.04	98644	C	0.03	—	0.05					
94655	C	0.83	—	0.84	98645	C	0.01	—	0.12					
94656	C	0.88	—	0.73	98646	C	0.05	—	0.04					
94657	C	1.74	1.80	1.27	98647	C	0.05	—	0.07					
94658	C	0.71	—	0.57	98648	C	0.02	—	0.02					
94659	C	0.63	—	0.56	98649	C	0.01	—	0.02					
94660	Pulp P	0.01	—	0.02	98650	C	0.05	—	0.03					
94661	C	0.27	—	0.29	98651	C	0.04	—	0.04					
96232	C	0.44	—	0.60	98652	C	0.03	—	0.03					
96233	C	0.54	—	0.73	RE 94626	R	0.53	—	0.51					
96234	C	0.41	—	0.54	RE 94645	R	0.46	—	0.61					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck %x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 33J1836

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[183617:47:06:30110903:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

78 Samples

Out: Nov 06, 2003 In: Nov 03, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	75	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

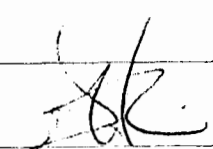
Document Distribution

1	Red Chris Development Company Ltd.	EN	RT	CC	IN	FX	##
	488 - 625 Howe Street	1	2	0	2	0	
	Vancouver	DL	3D	EM	BT	BL	
	B.C. V6C 2T6	0	0	0	0	0	
	Canada						
	Att: Account Payable						
							Ph: (604)683-0140
							Fx: (604)683-0126
							Em: smithib@attglobel.net
2	bcMetals	EN	RT	CC	IN	FX	##
	488 - 625 Howe Street	1	2	1	2	1	
	Vancouver	DL	3D	EM	BT	BL	
	B.C. V6C 2T6	0	0	1	0	0	
	Canada						
	Att: Ian Smith						
							Ph: (604)683-0140
							Fx: (604)683-0126
							Em: smithib@attglobel.net
3	bcMetals	EN	RT	CC	IN	FX	##
	488 - 625 Howe Street	1	2	1	2	1	
	Vancouver	DL	3D	EM	BT	BL	
	B.C. V6C 2T6	0	0	1	0	0	
	Canada						
	Att: Ron Simpson						
							Ph: (604)683-0140
							Fx: (604)683-0126
							Em: rgs@uniserve.com

Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	% Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk
DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BDS Type BL=BBS(1=Yes 0=No) ID=C0184090103
* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu





CERTIFICATE OF ANALYSIS

iPL 03J1836

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 Page 1 of 1

Client: bcMetals
 Project: Red Chris

78 Samples

Ship#

75=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [183617:48:23:30110903:003]

Out: Nov 06, 2003
 In: Nov 03, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %				
96262	C	0.20	—	0.49	98654	C	0.02	—	0.02	RE 96262	R	0.20	—	0.52	
96263	C	0.29	—	0.60	98655	C	0.02	—	0.06	RE 96281	R	0.07	—	0.06	
96264	C	0.31	—	0.56	98656	C	0.02	—	0.09	RE 98654	R	0.02	—	0.02	
96265	C	0.35	—	0.65	98657	C	0.05	—	0.05	RE 98673	R	0.05	—	0.13	
96266	C	0.36	—	0.72	98658	C	0.02	—	0.06	Blank iPL	Z	<0.01	—	<0.01	
96267	C	0.34	—	1.05	98659	C	0.02	—	0.06	FA_StdC	Z	0.32	—	—	
96268	C	0.42	—	0.88	98660	Pulp	P	0.75	—	0.91	FA_StdC REF	Z	0.33	0.33	—
96269	C	0.46	—	0.98	98661	C	0.01	—	0.02						
96270	C	0.42	—	0.70	98662	C	0.01	—	0.03						
96271	C	0.43	—	0.76	98663	C	0.02	—	0.07						
96272	C	0.01	—	<0.01	98664	C	0.03	—	0.10						
96273	C	<0.01	—	<0.01	98665	C	0.03	—	0.10						
96274	C	0.04	—	0.04	98666	C	0.03	—	0.11						
96275	C	0.01	—	0.04	98667	C	0.03	—	0.13						
96276	C	0.01	—	0.03	98668	C	0.03	—	0.10						
96277	C	0.02	—	0.03	98669	C	0.02	—	0.10						
96278	C	0.03	—	0.03	98670	C	0.03	—	0.15						
96279	C	0.02	—	0.03	98671	C	0.03	—	0.19						
96280	C	0.04	—	0.05	98672	C	0.05	—	0.21						
96281	C	0.05	—	0.06	98673	C	0.03	—	0.13						
96282	C	0.07	—	0.11	98674	C	0.03	—	0.09						
96283	C	0.04	—	0.05	98675	C	0.04	—	0.12						
96284	C	<0.01	—	<0.01	98676	C	0.05	—	0.14						
96285	C	0.07	—	0.13	98677	C	0.04	—	0.15						
96286	C	0.15	—	0.22	98678	C	0.04	—	0.16						
96287	C	0.15	—	0.15	98679	C	0.03	—	0.10						
96288	C	0.10	—	0.14	98680	Pulp	P	0.01	—	0.01					
98632	C	0.04	—	0.06	98681	C	0.05	—	0.07						
98633	C	0.06	—	0.05	98682	C	0.02	—	0.11						
98634	C	0.01	—	<0.01	98683	C	0.04	—	0.14						
98635	C	0.14	—	0.13	98684	C	0.08	—	0.17						
98636	C	0.09	—	0.09	98685	C	0.09	—	0.17						
98637	C	0.07	—	0.09	98686	C	0.07	—	0.16						
98638	C	0.19	—	0.06	98687	C	0.08	—	0.14						
98639	C	0.07	—	0.08	98688	C	0.06	—	0.09						
98640	Pulp	P	0.30	—	0.34	98689	C	0.20	—	0.11					
98641	C	0.06	—	0.04	98690	C	0.09	—	0.10						
98642	C	0.03	—	0.03	98691	C	0.07	—	0.10						
98653	C	0.04	—	0.04	98692	C	0.09	—	0.11						

n Limit 0.01 0.07 0.01 0.01 0.07 0.01 0.01 0.07 0.01
 x Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 thod FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blank <=0.01

CERTIFICATE OF ANALYSIS

iPL 03K1838

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 Fax (604) 879-7898
 Email iplab@telus.net
 [183816:15:07:30111103:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

78 Samples

Out: Nov 06, 2003 In: Nov 03, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	74	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

#	Code	Method	Units	Description	Element	Limit Low	Limit High
1	Red Chris Development Company Ltd.	EN RT CC IN FX	1 2 0 2 0				
	488 - 625 Howe Street	DL 3D EM BT BL	0 0 0 0 0				
	Vancouver						
	B.C. V6C 2T6						
	Canada						
	Att: Account Payable	Ph: (604)683-0140					
		Fx: (604)683-0126					
		Em: smithib@attglobal.net					
2	bcMetals	EN RT CC IN FX	1 2 1 2 1				
	488 - 625 Howe Street	DL 3D EM BT BL	0 0 1 0 0				
	Vancouver						
	B.C. V6C 2T6						
	Canada						
	Att: Ian Smith	Ph: (604)683-0140					
		Fx: (604)683-0126					
		Em: smithib@attglobal.net					
3	bcMetals	EN RT CC IN FX	1 2 1 2 1				
	488 - 625 Howe Street	DL 3D EM BT BL	0 0 1 0 0				
	Vancouver						
	B.C. V6C 2T6						
	Canada						
	Att: Ron Simpson	Ph: (604)683-0140					
		Fx: (604)683-0126					
		Em: rgs@uniserve.com					

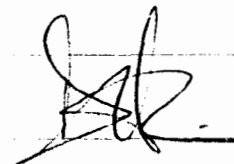
#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk

DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3K1839

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INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

66 Samples

Ship# 63=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [183916:15:19:30111103:002]

Out: Nov 06, 2003
In : Nov 03, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
96319	C	0.14	---	0.25	98752	C	0.39	---	0.75			
96320	C	0.12	---	0.26	98753	C	0.43	---	1.42			
96321	C	0.15	---	0.24	98754	C	0.76	---	1.08			
96322	C	0.16	---	0.27	98755	C	0.60	---	1.22			
96323	C	0.17	---	0.33	98756	C	0.78	---	1.38			
96324	C	0.31	---	0.21	98757	C	0.54	---	0.98			
96325	C	0.11	---	0.17	98758	C	0.30	---	0.57			
96326	C	0.14	---	0.22	98759	C	0.44	---	1.02			
96327	C	0.09	---	0.16	98760 Pulp	P	0.02	---	0.02			
96328	C	0.04	---	0.01	98761	C	0.60	---	1.06			
96329	C	0.23	---	0.18	98762	C	0.42	---	0.82			
96330	C	0.28	---	0.23	98763	C	0.11	---	0.13			
96331	C	0.60	---	0.18	98764	C	0.05	---	0.08			
96332	C	0.02	---	<0.01	98765	C	0.04	---	0.05			
96333 Pulp	P	0.54	---	0.57	98766	C	0.04	---	0.06			
96339	C	0.20	---	0.07	98767	C	0.08	---	0.07			
96340	C	0.18	---	0.27	98768	C	0.10	---	0.06			
96341	C	0.10	---	0.25	98769	C	0.06	---	0.05			
96342	C	0.14	---	0.34	98770	C	0.05	---	0.09			
96343	C	0.12	---	0.28	98771	C	0.05	---	0.08			
98728	C	0.22	---	0.38	98772	C	0.06	---	0.08			
98729	C	0.14	---	0.33	98773	C	0.05	---	0.08			
98730	C	0.15	---	0.31	98774	C	0.06	---	0.13			
98731	C	0.14	---	0.30	98775	C	0.04	---	0.05			
98732	C	0.12	---	0.22	98776	C	0.09	---	0.21			
98738	C	0.13	---	0.30	98777	C	0.09	---	0.15			
98739	C	0.25	---	0.58	98778	C	0.05	---	0.10			
98740 Pulp	P	0.55	---	0.58	RE 96319	R	0.16	---	0.25			
98741	C	0.22	---	0.55	RE 96343	R	0.14	---	0.26			
98742	C	0.26	---	0.69	RE 98752	R	0.37	---	0.72			
98743	C	0.40	---	0.81	RE 98771	R	0.07	---	0.08			
98744	C	0.32	---	0.96	Blank iPL	Z	<0.01	---	<0.01			
98745	C	0.46	---	0.60	FA StdC	Z	0.35	---	---			
98746	C	0.08	---	0.11	FA StdC REF	Z	0.33	0.33	---			
98747	C	0.10	---	0.14								
98748	C	0.37	---	1.04								
98749	C	0.54	---	1.17								
98750	C	0.06	---	0.01								
98751	C	0.21	---	0.49								

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

---No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

id - 03K1855

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 Fax (604) 879-7898
 Email iplab@telus.net
 [185516:14:53:30111103:002]

INTERNATIONAL REFERENCE LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

75 Samples

Out: Nov 07, 2003 In: Nov 05, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	71	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

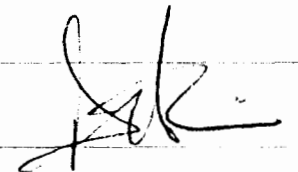
1	Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobel.net
2	bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobel.net
3	bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

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BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3K1855

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 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project : Red Chris

75 Samples

Ship#

71=Core 4=Pulp 4=Repeat 1=Blk iPL 1 [185516:17:05:30111103:003]

Out: Nov 07, 2003
 In : Nov 05, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
96347 C	0.20	—	0.31	98793 C	0.11	—	0.18	RE 98812 R	0.31	—	0.92
96348 C	0.18	—	0.30	98794 C	0.08	—	0.18	Blank iPL Z	<0.01	—	<0.01
96349 C	0.17	—	0.31	98795 C	0.12	—	0.31	FA_StdC Z	0.32	—	—
96350 C	0.15	—	0.31	98796 C	0.61	—	0.24	FA_StdC REF Z	0.33	0.33	—
96351 C	0.17	—	0.39	98797 C	0.12	—	0.20				
96352 C	0.16	—	0.33	98798 C	0.35	—	0.52				
96353 C	0.13	—	0.22	98799 C	0.33	—	0.40				
96354 C	0.14	—	0.23	98800 Pulp P	0.01	—	0.01				
96355 C	0.14	—	0.17	98801 C	0.92	—	0.85				
96356 C	0.10	—	0.19	98802 C	0.83	—	0.73				
96357 C	0.06	—	0.12	98803 C	0.36	—	0.48				
96358 C	0.07	—	0.14	98804 C	0.47	—	0.60				
96359 C	0.06	—	0.14	98805 C	0.18	—	0.50				
96360 C	0.07	—	0.09	98806 C	0.20	—	0.61				
96361 C	0.06	—	0.09	98807 C	0.17	—	0.74				
96362 C	0.06	—	0.07	98808 C	0.21	—	0.69				
96363 C	0.05	—	0.12	98809 C	0.22	—	0.67				
96364 C	0.43	—	0.09	98810 C	0.30	—	0.94				
96365 C	0.05	—	0.10	98811 C	0.35	—	0.95				
96366 Pulp P	0.58	—	0.56	98812 C	0.28	—	0.92				
96367 C	0.05	—	0.09	98813 C	0.32	—	0.83				
96368 C	0.07	—	0.08	98814 C	0.16	—	0.47				
96369 C	0.06	—	0.07	98815 C	0.14	—	0.36				
96370 C	0.06	—	0.10	98816 C	0.12	—	0.24				
96371 C	0.10	—	0.25	98817 C	0.10	—	0.23				
98779 C	0.06	—	0.06	98818 C	0.21	—	0.67				
98780 Pulp P	0.29	—	0.35	98819 C	0.16	—	0.49				
98781 C	0.08	—	0.08	98820 Pulp P	0.57	—	0.54				
98782 C	0.11	—	0.19	98821 C	0.16	—	0.55				
98783 C	0.08	—	0.17	98822 C	0.14	—	0.39				
98784 C	0.08	—	0.23	98823 C	0.18	—	0.48				
98785 C	0.08	—	0.11	98829 C	0.24	—	0.76				
98786 C	0.06	—	0.20	98830 C	0.23	—	0.64				
98787 C	0.07	—	0.23	98831 C	0.18	—	0.68				
98788 C	0.07	—	0.20	98832 C	0.26	—	0.64				
98789 C	0.07	—	0.17	98833 C	0.25	—	0.73				
98790 C	0.08	—	0.20	RE 96347 R	0.21	—	0.32				
98791 C	0.36	—	0.23	RE 96366 Pulp R	0.55	—	0.56				
98792 C	0.11	—	0.24	RE 98793 R	0.11	—	0.18				

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03K1857

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[185717:39:12:30111103:001]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

59 Samples

Out: Nov 11, 2003 In: Nov 05, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	56	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

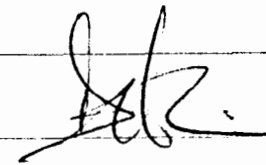
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							Fx:(604)683-0126
							Em:smithib@attglobal.net
2	bcMetals	EN	RT	CC	IN	FX	##
	488 - 625 Howe Street	1	2	1	2	1	
	Vancouver	DL	3D	EM	BT	BL	
	B.C. V6C 2T6	0	0	1	0	0	
	Canada						
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							Ph:(604)683-0140
							Fx:(604)683-0126
							Em:smithib@attglobal.net
3	bcMetals	EN	RT	CC	IN	FX	##
	488 - 625 Howe Street	1	2	1	2	1	
	Vancouver	DL	3D	EM	BT	BL	
	B.C. V6C 2T6	0	0	1	0	0	
	Canada						
	Att: Ron Simpson						
							Ph:(604)683-0140
							Fx:(604)683-0126
							Em:rgs@uniserve.com

Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	% Cu Assay by AA/ICP in %	Copper	0.01	100.00

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3K1857

Vancouver, BC
 Canada V6P 1R1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

59 Samples

Ship# 56=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [185713:35:30:30111203:002]

Out: Nov 11, 2003
 In : Nov 05, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
96422	C	0.06	—	0.12	96461	C	0.09	—	0.09			
96423	C	0.06	—	0.06	96462	C	0.06	—	0.13			
96424	C	0.06	—	0.02	96463	C	0.09	—	0.17			
96425	C	0.07	—	0.09	96464	C	0.06	—	0.14			
96426 Pulp	P	0.01	—	0.01	96465	C	0.09	—	0.13			
96427	C	0.11	—	0.10	96466 Pulp	P	0.01	—	0.01			
96428	C	0.06	—	0.11	96467	C	0.10	—	0.06			
96429	C	0.03	—	0.01	96468	C	0.07	—	0.15			
96430	C	0.03	—	<0.01	96469	C	0.07	—	0.09			
96431	C	0.04	—	<0.01	96470	C	0.08	—	0.12			
96432	C	0.05	—	<0.01	96471	C	0.01	—	<0.01			
96433	C	0.04	—	<0.01	96472	C	0.07	—	0.08			
96434	C	0.04	—	<0.01	96473	C	0.07	—	0.17			
96435	C	0.05	—	0.01	96474	C	0.05	—	0.03			
96436	C	0.03	—	<0.01	96475	C	0.06	—	0.02			
96437	C	0.03	—	<0.01	96476	C	0.04	—	<0.01			
96438	C	0.02	—	<0.01	96477	C	0.03	—	<0.01			
96439	C	0.02	—	<0.01	96478	C	0.04	—	0.01			
96440	C	0.03	—	<0.01	96479	C	0.07	—	0.02			
96441	C	0.04	—	<0.01	96480	C	0.06	—	0.01			
96442	C	0.03	—	0.01	RE 96422	R	0.07	—	0.12			
96443	C	0.03	—	<0.01	RE 96441	R	0.03	—	<0.01			
96444	C	0.04	—	0.01	RE 96461	R	0.08	—	0.09			
96445	C	0.05	—	0.05	RE 96480	R	0.06	—	0.01			
96446 Pulp	P	0.75	—	0.90	Blank iPL	Z	<0.01	—	<0.01			
96447	C	0.05	—	0.05	FA StdC	Z	0.32	—	—			
96448	C	0.05	—	0.14	FA_StdC REF	Z	0.33	0.33	—			
96449	C	0.06	—	0.11								
96450	C	0.05	—	0.14								
96451	C	0.07	—	0.28								
96452	C	0.05	—	0.09								
96453	C	0.06	—	0.09								
96454	C	0.05	—	0.10								
96455	C	0.03	—	<0.01								
96456	C	0.07	—	0.16								
96457	C	0.06	—	0.09								
96458	C	0.13	—	0.11								
96459	C	0.07	—	0.22								
96460	C	0.06	—	0.09								

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL J3K1858

Vancouver
 Canada V6C 2T6
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplat@telus.net
 [185817:26:27:30111103:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

75 Samples

Out: Nov 07, 2003 In: Nov 05, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	72	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

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 Att: Ian Smith Ph: (604)683-0140
 Fx: (604)683-0126
 Em: smithib@attglobe1.net

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 Att: Ron Simpson Ph: (604)683-0140
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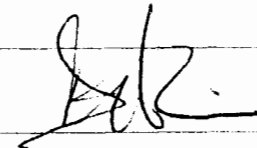
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03K1859

Canada V6C 2T6
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [185916:14:38:30111103:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

54 Samples

Out: Nov 09, 2003 In: Nov 05, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	51	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

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3	bcMetals	EN RT CC IN FX	
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	Vancouver	DL 3D EM BT BL	
	B.C. V6C 2T6	0 0 1 0 0	
	Canada		
	Att: Ron Simpson	Ph: (604)683-0140	
		Fx: (604)683-0126	
		Em: rgs@uniserve.com	

Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	% Cu Assay by AA/ICP in %	Copper	0.01	100.00

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DL=Download 3D=3: Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3K1859

Vancouver
 Canada V6P 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLATINA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

54 Samples

Ship#

51=Core 3=Pulp 3=Repeat 1=Blk iPL 1 [185916:14:38:30111103:002]

Out: Nov 09, 2003
 In : Nov 05, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
98854	C	0.26	—	0.30	98893	C	0.07	—	0.02		
98855	C	0.18	—	0.20	98894	C	0.02	—	<0.01		
98856	C	0.29	—	0.72	98895	C	0.02	—	<0.01		
98857	C	0.08	—	0.46	98896	C	0.05	—	0.03		
98858	C	0.09	—	0.36	98897	C	0.07	—	0.18		
98859	C	0.09	—	0.41	98898	C	0.08	—	0.14		
98860 Pulp	P	0.31	—	0.35	98899	C	0.05	—	0.08		
98861	C	0.09	—	0.42	98900 Pulp	P	0.58	—	0.56		
98862	C	0.07	—	0.24	98901	C	0.05	—	0.09		
98863	C	0.06	—	0.24	98902	C	0.04	—	0.15		
98864	C	0.05	—	0.33	98903	C	0.04	—	0.07		
98865	C	0.08	—	0.66	98904	C	0.03	—	0.04		
98866	C	0.09	—	0.64	98905	C	0.04	—	0.05		
98867	C	0.07	—	0.33	98906	C	0.04	—	0.06		
98868	C	0.07	—	0.29	98907	C	0.08	—	0.33		
98869	C	0.06	—	0.24	RE 98854	R	0.22	—	0.31		
98870	C	0.06	—	0.24	RE 98873	R	0.04	—	0.20		
98871	C	0.08	—	0.34	RE 98893	R	0.06	—	0.02		
98872	C	0.06	—	0.21	Blank iPL	Z	<0.01	—	<0.01		
98873	C	0.04	—	0.20	FA_StdC	Z	0.35	—	—		
98874	C	0.04	—	0.13	FA_StdC REF	Z	0.33	0.33	—		
98875	C	0.05	—	0.17							
98876	C	0.04	—	0.23							
98877	C	0.07	—	0.23							
98878	C	0.04	—	0.18							
98879	C	0.08	—	0.23							
98880 Pulp	P	0.01	—	0.01							
98881	C	0.08	—	0.13							
98882	C	0.02	—	0.06							
98883	C	0.03	—	0.13							
98884	C	0.03	—	0.15							
98885	C	0.03	—	0.05							
98886	C	0.04	—	0.02							
98887	C	0.02	—	0.01							
98888	C	0.03	—	0.02							
98889	C	0.03	—	0.01							
98890	C	0.03	—	0.01							
98891	C	0.02	—	<0.01							
98892	C	0.06	—	0.01							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 3K1885

Howe (604) 683-0140
 Fax (604) 683-0126
 Email: iplab@telus.net
 [188519:53:38:30111403:001]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

70 Samples

Out: Nov 14, 2003 In: Nov 07, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	67	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

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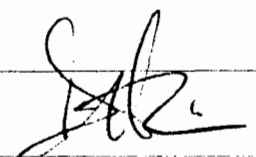
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3K1885

Telephone (604) 979-1819
 Fax (604) 979-7898
 Email iplab@telus.net

INTERNATIONAL PLASMA LABORATORIES LTD.

Client : bcMetals
Project: Red Chris

70 Samples

Ship# 67=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [188519:53:38:30111403:001]

Out: Nov 14, 2003
 In : Nov 07, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
96521	C	0.19	—	0.28	98967	C	0.09	—	0.16		
96522	C	0.21	—	0.29	98968	C	0.11	—	0.23		
96523	C	0.22	—	0.32	98969	C	0.14	—	0.16		
96524	C	0.20	—	0.24	98970	C	0.32	—	0.25		
96525	C	0.19	—	0.28	98971	C	0.30	—	0.55		
96531	C	0.10	—	0.18	98972	C	0.19	—	0.67		
96532	C	0.09	—	0.20	98973	C	0.29	—	1.05		
96533	C	0.10	—	0.16	98974	C	0.28	—	0.94		
96534	C	0.08	—	0.16	98975	C	0.24	—	0.86		
96535	C	0.14	—	0.22	98976	C	0.19	—	0.68		
98928	C	0.11	—	0.20	98977	C	0.29	—	0.57		
98929	C	0.13	—	0.38	98978	C	0.34	—	0.61		
98930	C	0.15	—	0.29	98979	C	0.20	—	0.54		
98931	C	0.08	—	0.16	98980	Pulp	P	0.76	—	0.90	
98932	C	0.11	—	0.20	98981	C	0.58	—	0.83		
98933	C	0.10	—	0.37	98982	C	0.50	—	0.63		
98934	C	0.17	—	0.65	98983	C	0.69	—	1.55		
98935	C	0.20	—	0.73	98984	C	0.27	—	0.44		
98936	C	0.17	—	0.46	98985	C	0.12	—	0.27		
98937	C	0.19	—	0.37	98986	C	0.14	—	0.36		
98938	C	0.28	—	0.50	98987	C	0.22	—	0.52		
98939	C	0.37	—	0.43	98988	C	0.31	—	0.62		
98940	Pulp	P	0.30	0.34	98989	C	0.41	—	0.61		
98941	C	0.15	—	0.34	98990	C	0.39	—	0.56		
98942	C	0.11	—	0.32	98991	C	0.33	—	0.46		
98948	C	0.29	—	0.73	98992	C	0.34	—	0.41		
98949	C	0.27	—	0.60	98993	C	0.57	—	0.59		
98950	C	0.21	—	0.52	98994	C	0.36	—	0.67		
98951	C	0.20	—	0.51	98995	C	0.72	—	0.80		
98952	C	0.30	—	0.47	98996	C	0.91	—	1.24		
98958	C	0.23	—	0.76	98997	C	0.99	—	1.46		
98959	C	0.17	—	0.72	RE 96521	R	0.18	—	0.28		
98960	Pulp	P	0.02	0.02	RE 98937	R	0.17	—	0.37		
98961	C	0.11	—	0.53	RE 98967	R	0.12	—	0.16		
98962	C	0.13	—	0.52	RE 98986	R	0.15	—	0.36		
98963	C	0.19	—	0.48	Blank iPL	Z	<0.01	—	<0.01		
98964	C	0.21	—	0.50	FA StdC	Z	0.34	—	—		
98965	C	0.18	—	0.46	FA StdC REF	Z	0.33	0.33	—		
98966	C	0.04	—	0.07							

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyAuA	FA/AAS	FAGrav	AsyAuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Rec Check m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 3K1886

Printed on: 2003-11-14 10:49:30 AM
 File: 188618-20:49:30111503:002
 [188618:20:49:30111503:002]

80 Samples

Out: Nov 14, 2003 In: Nov 07, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	76	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	5	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

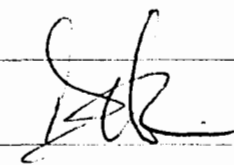
Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	##	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobe1.net
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0		Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobe1.net
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0		Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com

Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	% Cu Assay by AA/ICP in %	Copper	0.01	100.00



CERTIFICATE OF ANALYSIS

iPL JK1886

INTERNATIONAL PLASMA LABORATORY LTD

1000
 1000
 1000
 1000

Client : bcMetals
 Project: Red Chris

80 Samples

Ship#

76=Core 4=Pulp 5=Repeat 1=Blk iPL 1 [188618:20:49:30111503:002]

Out: Nov 14, 2003
 In : Nov 07, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %			
96481	C	0.12	—	0.07	96520 Pulp	P	0.02	—	0.01	98956	C	0.23	—	0.75
96482	C	0.07	—	0.05	96526	C	0.09	—	0.23	98957	C	0.27	—	0.94
96483	C	0.12	—	0.08	96527	C	0.08	—	0.16	RE 96481	R	0.13	—	0.07
96484	C	0.10	—	0.07	96528	C	0.07	—	0.14	RE 96500 Pulp	R	0.80	—	0.91
96485	C	0.15	—	0.12	96529	C	0.07	—	0.15	RE 96520 Pulp	R	0.01	—	0.01
96486	C	0.07	—	0.04	96530	C	0.11	—	0.22	RE 98916	R	0.08	—	0.20
96487	C	0.13	—	0.15	96536	C	0.33	—	0.22	RE 98956	R	0.22	—	0.76
96488	C	0.13	—	0.15	96537	C	0.08	—	0.21	Blank iPL	Z	<0.01	—	<0.01
96489	C	0.09	—	0.10	96538	C	0.06	—	0.20	FA_StdC	Z	0.35	—	—
96490	C	0.13	—	0.11	96539	C	0.07	—	0.26	FA_StdC REF	Z	0.33	0.33	—
96491	C	0.08	—	0.07	96540 Pulp	P	0.58	—	0.56					
96492	C	0.09	—	0.09	98908	C	0.05	—	0.16					
96493	C	0.10	—	0.08	98909	C	0.06	—	0.19					
96494	C	0.12	—	0.09	98910	C	0.04	—	0.12					
96495	C	0.10	—	0.08	98911	C	0.04	—	0.10					
96496	C	0.10	—	0.09	98912	C	0.08	—	0.29					
96497	C	0.15	—	0.15	98913	C	0.06	—	0.22					
96498	C	0.13	—	0.11	98914	C	0.08	—	0.23					
96499	C	0.17	—	0.16	98915	C	0.07	—	0.19					
96500 Pulp	P	0.76	—	0.95	98916	C	0.08	—	0.19					
96501	C	0.14	—	0.14	98917	C	0.08	—	0.18					
96502	C	0.06	—	0.06	98918	C	0.06	—	0.13					
96503	C	0.09	—	0.01	98919	C	0.08	—	0.16					
96504	C	0.05	—	0.04	98920 Pulp	P	0.78	—	0.91					
96505	C	0.06	—	0.04	98921	C	0.07	—	0.18					
96506	C	0.05	—	0.04	98922	C	0.09	—	0.10					
96507	C	0.05	—	0.03	98923	C	0.10	—	0.22					
96508	C	0.09	—	0.11	98924	C	0.05	—	<0.01					
96509	C	0.07	—	0.11	98925	C	0.09	—	0.19					
96510	C	0.12	—	0.15	98926	C	0.10	—	0.23					
96511	C	0.10	—	0.14	98927	C	0.17	—	0.27					
96512	C	0.13	—	0.23	98943	C	0.12	—	0.29					
96513	C	0.10	—	0.16	98944	C	0.33	—	0.41					
96514	C	0.13	—	0.21	98945	C	0.27	—	0.48					
96515	C	0.13	—	0.21	98946	C	0.14	—	0.43					
96516	C	0.13	—	0.19	98947	C	0.28	—	0.68					
96517	C	0.14	—	0.29	98953	C	0.25	—	0.73					
96518	C	0.13	—	0.30	98954	C	0.27	—	0.85					
96519	C	0.13	—	0.25	98955	C	0.26	—	1.03					

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

ID: 03K1888

Phone: (604) 879-7878
 Fax: (604) 879-7898
 Email: iplab@telus.net
 [188818:21:02:30111503:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

75 Samples

Out: Nov 14, 2003 In: Nov 07, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	70	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	5	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

1	Red Chris Development Company Ltd.	EN RT CC IN FX	##
	488 - 625 Howe Street	1 2 0 2 0	
	Vancouver	DL 3D EM BT BL	
	B.C. V6C 2T6	0 0 0 0 0	
	Canada		
	Att: Account Payable	Ph: (604)683-0140	
		Fx: (604)683-0126	
		Em: smithib@attglobe1.net	
2	bcMetals	EN RT CC IN FX	##
	488 - 625 Howe Street	1 2 1 2 1	
	Vancouver	DL 3D EM BT BL	
	B.C. V6C 2T6	0 0 1 0 0	
	Canada		
	Att: Ian Smith	Ph: (604)683-0140	
		Fx: (604)683-0126	
		Em: smithib@attglobe1.net	
3	bcMetals	EN RT CC IN FX	##
	488 - 625 Howe Street	1 2 1 2 1	
	Vancouver	DL 3D EM BT BL	
	B.C. V6C 2T6	0 0 1 0 0	
	Canada		
	Att: Ron Simpson	Ph: (604)683-0140	
		Fx: (604)683-0126	
		Em: rgs@uniserve.com	

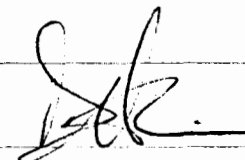
Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368 FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364 FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113 AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk

DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBSC(=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3K1888

Phone (604) 879-8771
 Fax (604) 879-8808
 Email info@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project: Red Chris

75 Samples

Ship# 70=Core 5=Pulp 4=Repeat 1=Blk iPL 1 [188818:21:02:30111503:002]

Out: Nov 14, 2003
In : Nov 07, 2003

Page 1 of 1

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
94662	C	0.84	—	0.89	96543	C	0.12	—	0.29	RE 96562	R	0.35	—	0.23
94663	C	1.54	1.57	1.21	96544	C	0.13	—	0.26	Blank iPL	Z	<0.01	—	<0.01
94664	C	1.39	1.50	1.32	96545	C	0.01	—	<0.01	FA StdC	Z	0.36	—	—
94665	C	1.50	1.48	1.33	96546	C	0.02	—	<0.01	FA StdC REF	Z	0.33	0.33	—
94666	C	1.54	1.69	1.65	96547	C	0.10	—	0.23					
94667	C	1.52	1.56	1.76	96548	C	0.16	—	0.32					
94668	C	1.63	1.61	1.55	96549	C	0.15	—	0.33					
94669	C	1.35	1.28	1.19	96550	C	0.16	—	0.29					
94670	C	1.11	1.12	1.14	96551	C	0.15	—	0.28					
94671	C	1.85	1.79	1.78	96552	C	0.25	—	0.47					
94672	C	1.07	1.13	1.02	96553	C	0.21	—	0.34					
94673	C	0.91	—	0.89	96554	C	0.19	—	0.35					
94674	C	0.86	—	0.87	96555	C	0.24	—	0.37					
94675	C	0.86	—	0.82	96556	C	0.33	—	0.46					
94676	C	0.93	—	0.79	96557	C	0.30	—	0.71					
94677	C	0.88	—	0.94	96558	C	0.23	—	0.32					
94678	C	0.93	—	0.93	96559	C	0.25	—	0.51					
94679	C	1.00	0.99	0.89	96560	Pulp	0.30	—	0.36					
94680	Pulp	0.56	—	0.57	96561	C	0.33	—	0.43					
94681	C	0.85	—	1.02	96562	C	0.33	—	0.24					
94682	C	0.85	—	1.09	96563	C	0.33	—	0.55					
94683	C	0.70	—	0.84	96564	C	0.23	—	0.51					
94694	C	0.46	—	0.78	96565	C	0.70	—	0.63					
94695	C	0.62	—	0.76	96566	C	0.61	—	0.54					
94696	C	0.42	—	0.55	96567	C	0.68	—	0.75					
94697	C	0.13	—	0.19	96568	C	0.51	—	0.47					
94698	C	0.02	—	<0.01	96569	C	0.83	—	1.14					
94699	C	0.04	—	0.04	96570	C	0.52	—	0.63					
94700	Pulp	0.74	—	0.92	96571	C	0.01	—	0.01					
94701	C	0.03	—	0.01	96582	C	0.64	—	0.76					
94702	C	0.02	—	<0.01	96583	C	0.41	—	0.47					
94703	C	0.03	—	<0.01	96584	C	0.32	—	0.38					
94704	C	0.05	—	0.06	96585	C	0.38	—	0.54					
94705	C	0.05	—	0.03	98998	C	0.80	—	0.92					
94706	C	0.33	—	0.42	98999	C	0.80	—	0.98					
94707	C	0.65	—	1.00	99000 Pulp	P	0.30	—	0.35					
94708	C	0.80	—	1.12	RE 94662	R	0.87	—	0.86					
96541	C	0.06	—	0.15	RE 94681	R	0.89	—	0.99					
96542	C	0.08	—	0.21	RE 96543	R	0.12	—	0.29					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

IPL 03K1891

Phone: (604) 683-0126
 Fax: (604) 683-0126
 Email: ipl@attglobal.net
 [189118:21:14:30111503:002]

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

55 Samples

Out: Nov 14, 2003 In: Nov 10, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	54	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	1	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary
 Analysis: Au(FA/AAS) Assay Cu

Document Distribution

- | | |
|---|---|
| <p>1 Red Chris Development Company Ltd.
 488 - 625 Howe Street
 Vancouver
 B.C. V6C 2T6
 Canada
 Att: Account Payable</p> | EN RT CC IN FX
1 2 0 2 0
DL 3D EM BT BL
0 0 0 0 0
Ph: (604)683-0140
Fx: (604)683-0126
Em: smithib@attglobal.net |
| <p>2 bcMetals
 488 - 625 Howe Street
 Vancouver
 B.C. V6C 2T6
 Canada
 Att: Ian Smith</p> | EN RT CC IN FX
1 2 1 2 1
DL 3D EM BT BL
0 0 1 0 0
Ph: (604)683-0140
Fx: (604)683-0126
Em: smithib@attglobal.net |
| <p>3 bcMetals
 488 - 625 Howe Street
 Vancouver
 B.C. V6C 2T6
 Canada
 Att: Ron Simpson</p> | EN RT CC IN FX
1 2 1 2 1
DL 3D EM BT BL
0 0 1 0 0
Ph: (604)683-0140
Fx: (604)683-0126
Em: rgs@uniserve.com |

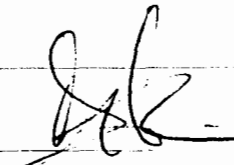
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) HD=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 3K1891

Phone (904) 879-7878
 Fax (904) 879-7898
 Email iplab@telus.net

INTERNATIONAL PLASTIC LABORATORY LTD.

Client : bcMetals
Project: Red Chris

55 Samples
 Ship# 54=Core 1=Pulp 3=Repeat 1=Blk iPL 1 [189118:21:14:30111503:002]

Out: Nov 14, 2003
 In : Nov 10, 2003
 Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
94684	C	0.41	—	0.54	96580	C	0.43	—	0.49			
94685	C	0.28	—	0.37	96591	C	0.31	—	0.45			
94686	C	0.05	—	0.03	96592	C	0.36	—	0.50			
94687	C	0.05	—	0.03	96593	C	0.02	—	<0.01			
94688	C	0.04	—	0.02	96594	C	0.03	—	<0.01			
94689	C	0.04	—	0.02	96595	C	0.02	—	0.01			
94690	C	0.04	—	0.04	96596	C	0.02	—	<0.01			
94691	C	0.09	—	0.07	96597	C	0.03	—	<0.01			
94692	C	0.08	—	0.08	96598	C	0.01	—	<0.01			
94693	C	0.24	—	0.35	96599	C	0.73	—	0.62			
94709	C	0.46	—	0.78	96600 Pulp	P	0.30	—	0.36			
94710	C	0.39	—	0.75	96606	C	0.16	—	0.18			
94711	C	0.48	—	0.73	96607	C	0.18	—	0.26			
94712	C	0.40	—	0.52	96608	C	0.12	—	0.06			
94713	C	0.43	—	0.54	96609	C	0.13	—	0.13			
94714	C	0.66	—	0.70	96610	C	0.12	—	0.15			
94715	C	0.77	—	0.78	RE 94684	R	0.41	—	0.52			
94716	C	0.72	—	0.87	RE 94718	R	1.08	—	0.96			
94717	C	0.79	—	0.78	RE 96580	R	0.46	—	0.48			
94718	C	1.31	1.12	0.98	Blank iPL	Z	<0.01	—	<0.01			
94724	C	0.35	—	0.62	FA StdC	Z	0.32	—	—			
94725	C	0.27	—	0.63	FA StdC REF	Z	0.33	0.33	—			
94726	C	0.58	—	0.79								
94727	C	0.36	—	0.59								
94728	C	0.16	—	0.32								
94729	C	0.19	—	0.40								
94730	C	0.20	—	0.34								
94731	C	0.19	—	0.38								
94732	C	0.24	—	0.33								
94733	C	0.31	—	0.47								
96571	C	0.55	—	0.69								
96572	C	0.81	—	0.87								
96573	C	0.62	—	0.65								
96574	C	0.60	—	0.58								
96575	C	0.28	—	0.33								
96576	C	0.51	—	0.53								
96577	C	0.71	—	1.08								
96578	C	0.51	—	0.54								
96579	C	0.43	—	0.46								

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Ret Check m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL J3K1900

Canada
Phone (604) 879-7979
Fax (604) 879-7998
Email iplab@telus.net
[190016:45:23:30111703:001]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals
Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

73 Samples Out: Nov 17, 2003 In: Nov 11, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	69	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

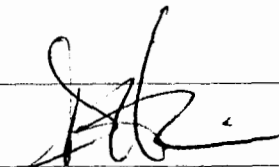
1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	##	Code	Method	Units	Description	Element	Limit Low	Limit High
			01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01 9999.00
			02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07 9999.00
			03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01 100.00
Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net									
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0								
Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net									
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0								
Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com									

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL J3K1900

Phone (604) 379-1978
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL ELECTROLABORATORY LTD

Client : bcMetals
 Project: Red Chris

Ship# 73 Samples
 69=Core 4=Pulp 4=Repeat 1=Blk iPL 1 [190016:45:23:30111703:001]

Out: Nov 17, 2003
 In : Nov 11, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
94719	C	0.30	—	0.35	96612	C	0.29	—	0.31	FA_StdC	Z	0.36	—	—
94720 Pulp	P	0.01	—	0.01	96613	C	0.20	—	0.20	FA_StdC REF	Z	0.33	0.33	—
94721	C	0.52	—	0.76	96614	C	0.33	—	0.37					
94722	C	0.64	—	0.83	96615	C	0.28	—	0.31					
94723	C	0.26	—	0.39	96616	C	0.22	—	0.30					
94734	C	0.26	—	0.36	96617	C	0.55	—	0.20					
94735	C	0.20	—	0.37	96618	C	0.27	—	0.20					
94736	C	0.10	—	0.13	96619	C	0.52	—	0.24					
94737	C	0.03	—	<0.01	96620 Pulp	P	0.78	—	0.94					
94738	C	0.02	—	<0.01	96621	C	0.39	—	0.43					
94739	C	0.10	—	0.13	96622	C	0.36	—	0.45					
94740 Pulp	P	0.29	—	0.37	96623	C	0.39	—	0.52					
94741	C	0.17	—	0.14	96624	C	0.29	—	0.32					
94742	C	0.11	—	0.24	96625	C	0.34	—	0.41					
94743	C	0.11	—	0.16	96626	C	0.36	—	0.42					
94744	C	0.13	—	0.15	96627	C	0.29	—	0.37					
94745	C	0.13	—	0.16	96628	C	0.31	—	0.40					
94746	C	0.11	—	0.25	96629	C	0.40	—	0.48					
94747	C	0.17	—	0.18	96630	C	0.39	—	0.47					
94748	C	0.20	—	0.18	96631	C	0.37	—	0.44					
94749	C	0.13	—	0.22	96632	C	0.34	—	0.41					
94750	C	0.11	—	0.25	96633	C	0.30	—	0.36					
94751	C	0.13	—	0.19	96634	C	0.33	—	0.38					
94752	C	0.11	—	0.20	96635	C	0.28	—	0.33					
94753	C	0.14	—	0.19	96636	C	0.29	—	0.38					
94754	C	0.09	—	0.28	96637	C	0.34	—	0.36					
94755	C	0.13	—	0.23	96638	C	0.34	—	0.42					
94756	C	0.17	—	0.34	96639	C	0.44	—	0.51					
96586	C	0.58	—	0.80	96640 Pulp	P	0.58	—	0.55					
96587	C	0.49	—	0.60	96641	C	0.54	—	0.53					
96588	C	0.59	—	0.60	96642	C	0.27	—	0.32					
96589	C	0.34	—	0.56	96643	C	0.35	—	0.45					
96590	C	0.29	—	0.38	96644	C	0.40	—	0.48					
96601	C	0.48	—	0.43	96645	C	0.39	—	0.50					
96602	C	0.30	—	0.42	RE 94719	R	0.28	—	0.36					
96603	C	0.61	—	0.85	RE 94748	R	0.20	—	0.17					
96604	C	0.12	—	0.15	RE 96612	R	0.32	—	0.30					
96605	C	0.18	—	0.23	RE 96631	R	0.38	—	0.42					
96611	C	0.17	—	0.18	Blank iPL	Z	<0.01	—	<0.01					

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

J3K1903

Phone (604) 879-7878
 Fax (604) 879-7898
 Email: iplab@telus.net
 [190310:37:36:30111803:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

70 Samples

Out: Nov 17, 2003 In: Nov 13, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	67	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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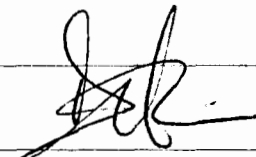
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 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ian Smith Ph: (604)683-0140
 Fx: (604)683-0126
 Em: smithib@attglobe1.net

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 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ron Simpson Ph: (604)683-0140
 Fx: (604)683-0126
 Em: rgs@uniserve.com

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

id. 03K1903

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 Fax (604) 879-7898
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 Page 1 of 1

INTERNATIONAL PLAC LABORATORY LTD

Client : bcMetals
Project : Red Chris

70 Samples
 Ship# 67=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [190310:37:36:30111803:002]

Out: Nov 17, 2003
 In : Nov 13, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
89001	C	0.69	—	1.16	94781	C	0.25	—	0.32		
89002	C	0.35	—	0.43	94782	C	0.18	—	0.29		
89003	C	0.21	—	0.38	94783	C	0.12	—	0.20		
89004	C	2.59	2.67	2.15	94784	C	0.13	—	0.24		
89005	C	0.72	—	0.85	94785	C	0.18	—	0.29		
89011	C	0.42	—	0.49	94786	C	<0.01	—	<0.01		
89012	C	0.57	—	0.55	94787	C	0.11	—	0.20		
89013	C	0.36	—	0.32	94788	C	0.16	—	0.31		
89014	C	2.49	2.38	2.14	94789	C	0.14	—	0.32		
89015	C	2.53	2.73	2.02	94790	C	0.14	—	0.28		
89016	C	0.36	—	0.77	94791	C	0.16	—	0.31		
89017	C	0.23	—	0.38	94857	C	0.31	—	0.27		
89018	C	0.93	—	1.05	94858	C	0.99	—	1.25		
89019	C	0.48	—	0.47	94859	C	0.77	—	1.15		
89020	C	0.35	—	0.58	94860 Pulp	P	0.74	—	0.93		
94757	C	0.22	—	0.30	94861	C	0.70	—	0.96		
94758	C	0.20	—	0.34	96646	C	0.25	—	0.54		
94759	C	0.16	—	0.30	96647	C	0.05	—	<0.01		
94760 Pulp	P	0.74	—	0.90	96648	C	0.01	—	<0.01		
94761	C	0.15	—	0.24	96649	C	0.01	—	<0.01		
94762	C	0.20	—	0.25	96650	C	0.06	—	<0.01		
94763	C	0.01	—	<0.01	96651	C	0.06	—	0.05		
94764	C	0.15	—	<0.01	96652	C	0.05	—	0.02		
94765	C	0.01	—	<0.01	96653	C	0.05	—	0.02		
94766	C	<0.01	—	<0.01	96654	C	0.06	—	0.04		
94767	C	<0.01	—	<0.01	96655	C	0.06	—	0.04		
94768	C	0.01	—	<0.01	96656	C	0.08	—	0.03		
94769	C	0.02	—	<0.01	96657	C	<0.01	—	<0.01		
94770	C	0.01	—	<0.01	96658	C	0.01	—	<0.01		
94771	C	0.13	—	0.21	96659	C	0.13	—	0.10		
94772	C	0.11	—	0.17	96660	C	0.19	—	0.16		
94773	C	0.11	—	0.18	RE 89001	R	0.79	—	1.15		
94774	C	0.16	—	0.27	RE 94761	R	0.15	—	0.25		
94775	C	0.15	—	0.38	RE 94781	R	0.22	—	0.32		
94776	C	0.12	—	0.32	RE 96649	R	0.02	—	<0.01		
94777	C	0.18	—	0.17	Blank iPL	Z	<0.01	—	<0.01		
94778	C	0.14	—	0.30	FA StdC	Z	0.36	—	—		
94779	C	0.01	—	<0.01	FA StdC REF	Z	0.33	0.33	—		
94780 Pulp	P	0.58	—	0.56							

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS
iPL 03K1909

Vancouver
Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[190919:49:16:30111803:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

44 Samples

Out: Nov 17, 2003 In: Nov 13, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	42	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS
iPL 03K1909

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Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

44 Samples

Ship#

42=Core 2=Pulp 3=Repeat 1=Blk iPL 1 [190919:49:16:30111803:002]

Out: Nov 17, 2003
In : Nov 13, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
94882	C	1.25	1.13	1.23	96766	C	0.32	---	0.27					
94883	C	1.39	1.48	1.44	96767	C	0.85	---	0.99					
94884	C	0.70	---	0.98	96768	C	0.72	---	0.79					
94885	C	0.81	---	0.96	96769	C	0.87	---	0.87					
94886	C	0.24	---	0.35	96770	C	0.65	---	0.79					
94887	C	0.75	---	0.94	RE 94882	R	1.24	---	1.24					
94888	C	0.64	---	0.82	RE 96746	R	0.98	---	1.10					
94889	C	0.61	---	0.90	RE 96766	R	0.32	---	0.27					
94890	C	0.01	---	0.01	Blank iPL	Z	<0.01	---	<0.01					
94891	C	0.43	---	0.68	FA_StdC	Z	0.32	---	---					
94892	C	0.46	---	0.72	FA_StdC REF	Z	0.33	0.33	---					
94893	C	0.53	---	0.64										
94894	C	0.35	---	0.63										
94895	C	0.34	---	0.74										
94896	C	0.08	---	0.60										
94897	C	0.07	---	0.57										
94898	C	0.07	---	0.50										
94899	C	0.09	---	0.60										
94900	Pulp	P	0.31	---	0.35									
96746	C	1.28	1.10	1.11										
96747	C	1.45	1.23	1.37										
96748	C	1.20	1.05	1.07										
96749	C	0.83	---	1.16										
96750	C	0.77	---	1.04										
96751	C	1.33	1.30	1.18										
96752	C	1.17	1.20	1.10										
96753	C	0.79	---	1.03										
96754	C	0.44	---	0.49										
96755	C	0.88	---	0.88										
96756	C	0.77	---	0.91										
96757	C	0.51	---	0.70										
96758	C	0.41	---	0.72										
96759	C	0.36	---	0.50										
96760	C	0.42	---	0.59										
96761	C	0.56	---	0.54										
96762	C	0.56	---	0.51										
96763	C	0.16	---	0.24										
96764	C	0.15	---	0.18										
96765	Pulp	P	0.79	---	0.90									

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL J3K1910

Canada (604) 879-7878
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [191019:50:19:30111803:003]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

70 Samples

Out: Nov 17, 2003 In: Nov 13, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	67	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

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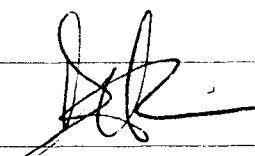
1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	##	Code	Method	Units	Description	Element	Limit Low	Limit High
		01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
		02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
		03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00
	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net								
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	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net								
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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

03K1910

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 Canada BC V1P 1C1
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 Fax (604) 879-7898
 Email iplab@lelus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

70 Samples

Ship# 67=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [191019:50:19:30111803:003]

Out: Nov 17, 2003
 In : Nov 13, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %		
89006	C	0.18	—	0.23	94866	C	0.71	—	0.99				
89007	C	2.78	2.90	1.83	96661	C	0.20	—	0.15				
89008	C	0.29	—	0.50	96662	C	0.27	—	0.21				
89009	C	0.14	—	0.24	96663	C	0.16	—	0.13				
89010	C	0.22	—	0.45	96664	C	0.15	—	0.14				
89021	C	1.43	1.68	1.85	96665	Pulp	P	0.01	—	0.01			
89022	C	0.17	—	0.24	96666	C	0.13	—	0.20				
89023	C	2.33	2.41	2.49	96667	C	0.12	—	0.14				
89024	C	0.43	—	0.65	96668	C	0.09	—	0.01				
89025	C	0.81	—	1.17	96669	C	0.06	—	0.01				
94792	C	0.19	—	0.21	96670	C	0.09	—	0.03				
94793	C	0.18	—	0.25	96671	C	0.06	—	<0.01				
94794	C	0.14	—	0.28	96672	C	0.06	—	<0.01				
94795	C	0.12	—	0.21	96673	C	0.06	—	<0.01				
94796	C	0.12	—	0.22	96674	C	0.06	—	0.01				
94797	C	0.18	—	0.26	96675	C	0.06	—	0.02				
94798	C	0.20	—	0.45	96676	C	0.05	—	<0.01				
94799	C	0.24	—	0.49	96677	C	0.06	—	<0.01				
94800	Pulp	P	0.01	0.01	96678	C	0.18	—	0.15				
94801	C	0.28	—	0.27	96679	C	0.65	—	0.73				
94802	C	0.01	—	<0.01	96680	C	0.39	—	0.25				
94803	C	0.01	—	<0.01	96681	C	1.37	1.33	1.30				
94804	C	0.19	—	0.28	96682	C	0.48	—	0.48				
94805	C	0.30	—	0.58	96683	C	0.57	—	0.75				
94806	C	0.28	—	0.53	96684	C	0.35	—	0.49				
94807	C	0.38	—	0.50	96685	Pulp	P	0.30	—	0.36			
94808	C	0.23	—	0.39	96686	C	0.47	—	0.53				
94809	C	0.30	—	0.42	96687	C	0.26	—	0.30				
94810	C	0.24	—	0.41	96688	C	0.20	—	0.26				
94811	C	0.24	—	0.39	96689	C	0.18	—	0.20				
94852	C	0.79	—	0.79	96690	C	0.13	—	0.16				
94853	C	0.48	—	0.68	RE 89006	R	0.17	—	0.22				
94854	C	0.68	—	0.71	RE 94801	R	0.26	—	0.27				
94855	C	0.87	—	1.04	RE 94866	R	0.69	—	0.96				
94856	C	0.79	—	0.86	RE 96679	R	0.61	—	0.72				
94862	C	0.06	—	0.01	Blank iPL	Z	<0.01	—	<0.01				
94863	C	0.07	—	0.02	FA StdC	Z	0.35	—	—				
94864	C	0.85	—	1.09	FA StdC REF	Z	0.33	0.33	—				
94865	C	1.00	1.04	1.26									

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

ID: 03K1911

Vancouver, BC
 Canada V6C 2T6
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [191119:54:34:30111803:002]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

65 Samples

Out: Nov 17, 2003 In: Nov 13, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	% Cu Assay by AA/ICP in %	Copper	0.01	100.00

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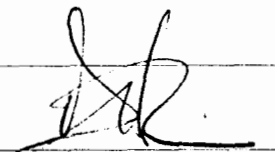
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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

id: 03K1911

Canada
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Email iplab@telus.net
Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project: Red Chris

65 Samples
62=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [191119:54:34:30111803:002]

Out: Nov 17, 2003
In : Nov 13, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
94812	C	0.21	—	0.39	94851	C	0.73	—	0.78			
94813	C	0.30	—	0.46	96691	C	0.17	—	0.22			
94814	C	0.57	—	0.79	96692	C	0.11	—	0.04			
94815	C	0.58	—	0.74	96693	C	0.10	—	0.08			
94816	C	0.79	—	0.98	96694	C	0.19	—	0.21			
94817	C	0.51	—	0.65	96695	C	0.16	—	0.21			
94818	C	0.45	—	0.66	96696	C	0.30	—	0.30			
94819	C	0.77	—	1.04	96697	C	0.19	—	0.24			
94820	Pulp	P	0.56	—	0.55	96698	C	0.20	—	0.20		
94821	C	1.48	1.40	1.51	96699	C	0.16	—	0.22			
94822	C	0.48	—	0.66	96700	C	0.13	—	0.22			
94823	C	0.46	—	0.49	96701	C	0.11	—	0.18			
94824	C	0.49	—	0.74	96702	C	0.12	—	0.20			
94825	C	0.34	—	0.52	96703	C	0.05	—	0.05			
94826	C	0.32	—	0.46	96704	C	0.08	—	0.09			
94827	C	0.36	—	0.47	96705	Pulp	P	0.75	—	0.92		
94828	C	0.30	—	0.43	96706	C	0.07	—	0.07			
94829	C	0.42	—	0.56	96707	C	0.10	—	0.12			
94830	C	0.68	—	0.85	96708	C	0.53	—	0.75			
94831	C	0.77	—	0.87	96709	C	0.87	—	1.17			
94832	C	0.39	—	0.60	96710	C	0.30	—	0.69			
94833	C	0.44	—	0.74	96711	C	0.38	—	0.79			
94834	C	0.32	—	0.32	96712	C	0.29	—	0.60			
94835	C	0.04	—	<0.01	96713	C	0.32	—	0.56			
94836	C	0.24	—	0.15	96714	C	0.30	—	0.63			
94837	C	0.16	—	0.22	96715	C	0.35	—	0.62			
94838	C	0.14	—	0.27	RE 94812	R	0.21	—	0.40			
94839	C	0.78	—	0.26	RE 94831	R	0.76	—	0.87			
94840	Pulp	P	0.30	—	0.36	RE 94851	R	0.73	—	0.76		
94841	C	0.22	—	0.38	RE 96709	R	0.81	—	1.20			
94842	C	0.16	—	0.26	Blank iPL	Z	<0.01	—	<0.01			
94843	C	0.19	—	0.33	FA StdC	Z	0.32	—	—			
94844	C	0.13	—	0.21	FA StdC REF	Z	0.33	0.33	—			
94845	C	0.19	—	0.30								
94846	C	0.16	—	0.28								
94847	C	0.38	—	0.41								
94848	C	0.06	—	0.04								
94849	C	0.08	—	0.01								
94850	C	0.79	—	0.81								

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

ID: 03K1925

Canada
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [192517:19:27:30111903:002]

INTERNATIONAL PLASMA LABORATORY LTD

52 Samples

Out: Nov 17, 2003 In: Nov 14, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#: _____
Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	49	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

NS=No Sample Rep=Replicate M=Month Dis=Discard

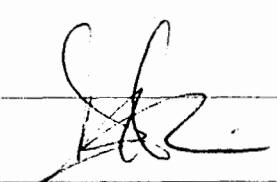
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2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	01 0368 FA/AAS g/mt Au (FA/AAS 30g) g/mt 02 0364 FAGrav g/mt Au FA/Grav in g/mt 03 0113 AsyMuA % Cu Assay by AA/ICP in %	Element Limit Low Limit High Gold 0.01 9999.00 Gold 0.07 9999.00 Copper 0.01 100.00
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0		Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03K1925

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 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

52 Samples
 49=Core 3=Pulp 3=Repeat 1=Blk iPL 1 [192517:19:27:30111903:002]

Out: Nov 17, 2003
 In : Nov 14, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
89026	C	0.87	—	1.30	96733	C	0.58	—	0.76			
89027	C	0.37	—	0.50	96734	C	0.46	—	0.53			
89028	C	0.37	—	0.51	96735	C	0.44	—	0.53			
89029	C	0.72	—	1.31	96736	C	0.54	—	0.80			
89030	C	0.42	—	0.76	96737	C	0.49	—	0.67			
89031	C	0.89	—	1.38	96738	C	0.34	—	0.47			
89032	C	0.86	—	0.90	96739	C	0.76	—	1.21			
94867	C	0.27	—	0.38	96740	C	0.74	—	0.99			
94868	C	0.15	—	0.20	96741	C	0.55	—	0.84			
94869	C	0.20	—	0.19	96742	C	0.99	—	1.08			
94870	C	0.46	—	0.45	96743	C	0.51	—	0.55			
94871	C	0.24	—	0.30	96744	C	0.67	—	0.84			
94872	C	0.60	—	0.67	96745 Pulp	P	0.30	—	0.36			
94873	C	0.67	—	0.83	RE 89026	R	0.91	—	1.30			
94874	C	0.69	—	1.00	RE 94879	R	0.83	—	1.05			
94875	C	1.11	1.21	0.96	RE 96733	R	0.57	—	0.77			
94876	C	0.43	—	0.52	Blank iPL	Z	<0.01	—	<0.01			
94877	C	0.60	—	0.92	FA StdC	Z	0.33	—	—			
94878	C	0.39	—	0.77	FA StdC REF	Z	0.33	0.33	—			
94879	C	0.77	—	1.03								
94880 Pulp	P	0.01	—	0.01								
94881	C	0.81	—	1.16								
96716	C	0.44	—	0.69								
96717	C	0.30	—	0.63								
96718	C	0.39	—	0.82								
96719	C	0.55	—	1.04								
96720	C	0.53	—	0.91								
96721	C	0.40	—	0.74								
96722	C	0.21	—	0.48								
96723	C	0.22	—	0.47								
96724	C	0.36	—	0.66								
96725 Pulp	P	0.56	—	0.57								
96726	C	0.78	—	1.44								
96727	C	0.78	—	1.14								
96728	C	0.39	—	0.61								
96729	C	0.37	—	0.62								
96730	C	0.62	—	0.79								
96731	C	0.58	—	0.75								
96732	C	0.74	—	0.93								

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

L 03K1928

Van
 Can...
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 [192819:43:28:30111903:003]

INTERNATIONAL PLASMA LABORATORY LTD

65 Samples

Out: Nov 19, 2003 In: Nov 14, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

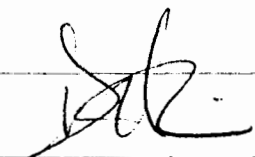
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3	bcMetals	EN RT CC IN FX	1 2 1 2 1
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	Vancouver		
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BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

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 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

65 Samples

Ship# 62=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [192819:43:28:30111903:003]

Out: Nov 19, 2003
 In : Nov 14, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
94901	C	0.07	—	0.43	94940	Pulp	P	0.56	—	0.57	
94902	C	0.09	—	0.46	94941	C	0.55	—	0.71		
94903	C	0.07	—	0.40	94942	C	0.58	—	1.26		
94904	C	0.09	—	0.76	94943	C	0.69	—	1.02		
94905	C	0.02	—	0.03	94944	C	1.09	1.14	1.53		
94906	C	0.02	—	0.01	94945	C	0.82	—	1.13		
94907	C	0.05	—	0.01	94946	C	0.75	—	0.88		
94908	C	0.02	—	0.01	94947	C	0.90	—	1.07		
94909	C	0.02	—	0.01	94948	C	0.98	—	1.11		
94910	C	0.02	—	0.02	94949	C	0.95	—	1.09		
94911	C	0.03	—	0.02	94950	C	0.71	—	0.81		
94912	C	0.03	—	0.04	94951	C	1.25	1.19	1.31		
94913	C	0.04	—	0.03	94952	C	1.69	1.57	1.34		
94914	C	0.04	—	0.02	94953	C	1.81	1.78	1.68		
94915	C	0.03	—	0.02	94954	C	0.99	—	1.01		
94916	C	0.04	—	0.03	94955	C	0.87	—	0.98		
94917	C	0.10	—	0.46	94971	C	1.84	1.69	1.50		
94918	C	0.13	—	0.45	94972	C	1.99	1.80	1.35		
94919	C	0.14	—	0.57	94973	C	1.45	1.41	1.30		
94920	Pulp	P	0.76	0.93	94974	C	0.89	—	0.98		
94921	C	0.13	—	0.52	94975	C	1.20	1.17	0.99		
94922	C	0.17	—	0.71	96781	C	0.70	—	0.70		
94923	C	0.11	—	0.49	96782	C	0.70	—	0.84		
94924	C	0.14	—	0.31	96783	C	0.52	—	0.86		
94925	C	0.03	—	0.06	96784	C	0.60	—	0.93		
94926	C	0.02	—	<0.01	96785	Pulp	P	0.56	—	0.55	
94927	C	0.01	—	<0.01	RE 94901	R	0.05	—	0.45		
94928	C	0.04	—	<0.01	RE 94920	Pulp	R	0.75	—	0.91	
94929	C	0.02	—	<0.01	RE 94940	Pulp	R	0.53	—	0.56	
94930	C	0.03	—	<0.01	RE 94974	R	1.00	—	0.99		
94931	C	0.03	—	0.01	Blank iPL	Z	<0.01	—	<0.01		
94932	C	0.04	—	0.01	FA StdC	Z	0.35	—	—		
94933	C	0.02	—	<0.01	FA StdC REF	Z	0.33	0.33	—		
94934	C	0.05	—	0.06							
94935	C	0.13	—	0.46							
94936	C	0.27	—	0.53							
94937	C	0.05	—	0.02							
94938	C	0.57	—	1.62							
94939	C	0.71	—	0.86							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

i L 03K1931

Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [193113:25:27:30112103:002]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

60 Samples

Out: Nov 21, 2003 In: Nov 17, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	57	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is. no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

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 488 - 625 Howe Street 1 2 0 2 0
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 B.C. V6C 2T6 0 0 0 0 0
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 Att: Account Payable Ph: (604)683-0140
 Fx: (604)683-0126
 Em: smithib@attglobal.net

2 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ian Smith Ph: (604)683-0140
 Fx: (604)683-0126
 Em: smithib@attglobal.net

3 bcMetals EN RT CC IN FX
 488 - 625 Howe Street 1 2 1 2 1
 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ron Simpson Ph: (604)683-0140
 Fx: (604)683-0126
 Em: rgs@uniserve.com

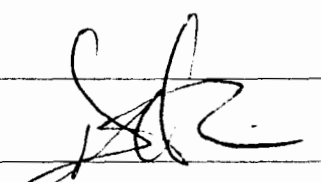
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03K1931

Canada 301
 Phone (604) 879-7898
 Fax (604) 879-7898
 Email iptlab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

60 Samples

Ship# 57=Core 3=Pulp 4=Repeat 1=Blk iPL 1 [193113:25:27:30112103:002]

Out: Nov 21, 2003
 In : Nov 17, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
90006	C	0.34	—	0.50	96780	C	0.31	—	0.53			
90007	C	0.16	—	0.23	96786	C	0.64	—	0.66			
90008	C	0.34	—	0.62	96787	C	1.92	1.72	1.68			
90009	C	0.27	—	0.29	96788	C	0.63	—	0.85			
90010	C	0.26	—	0.31	96789	C	0.28	—	0.40			
94956	C	0.50	—	0.65	96790	C	0.27	—	0.32			
94957	C	0.54	—	0.58	96820	C	0.04	—	0.22			
94958	C	0.33	—	0.44	96821	C	0.04	—	0.19			
94959	C	0.70	—	0.75	96822	C	0.02	—	0.01			
94960	Pulp	P	0.01	—	0.02	96823	C	0.02	—	0.02		
94961	C	0.75	—	0.76	96824	C	0.03	—	0.03			
94962	C	0.63	—	0.73	96835	C	0.05	—	0.51			
94963	C	0.71	—	0.71	96836	C	0.05	—	0.36			
94964	C	1.17	1.11	1.18	96837	C	0.05	—	0.63			
94965	C	1.48	1.37	1.32	96838	C	0.05	—	0.67			
94966	C	0.85	—	1.40	96839	Pulp	P	0.01	—	0.02		
94967	C	1.07	1.09	1.09	96845	C	0.04	—	0.05			
94968	C	1.41	1.35	1.30	96846	C	0.04	—	0.02			
94969	C	1.18	1.17	0.99	96847	C	0.03	—	0.01			
94970	C	0.97	—	0.99	96848	C	0.04	—	0.01			
94976	C	0.47	—	0.45	96849	C	0.04	—	0.02			
94977	C	1.24	1.22	1.15	RE 90006	R	0.33	—	0.50			
94978	C	1.37	1.32	1.22	RE 94970	R	0.82	—	0.99			
94979	C	1.15	1.02	1.35	RE 96780	R	0.30	—	0.55			
94980	Pulp	P	0.60	—	0.55	RE 96848	R	0.04	—	0.02		
94981	C	0.84	—	1.66	Blank iPL	Z	<0.01	—	—			
94982	C	0.31	—	1.35	FA StdC	Z	0.32	—	—			
94983	C	0.22	—	0.87	FA_StdC REF	Z	0.33	0.33	—			
94984	C	0.13	—	0.59								
94985	C	0.15	—	0.50								
96771	C	0.24	—	0.25								
96772	C	0.18	—	0.20								
96773	C	0.32	—	0.39								
96774	C	2.55	2.48	2.31								
96775	C	2.40	2.28	2.35								
96776	C	1.83	1.68	1.60								
96777	C	0.45	—	0.42								
96778	C	0.41	—	0.48								
96779	C	0.63	—	0.71								

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=Ret'check m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS
iPL 03K1932

Canada
Phone: (604) 279-2878
Fax: (604) 279-2898
Email: iplab@telus.net
[193213:25:54:30112103:003]

INTERNATIONAL FLUORIDE LABORATORY LTD.

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

59 Samples

Out: Nov 19, 2003 In: Nov 17, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	57	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

Document Distribution

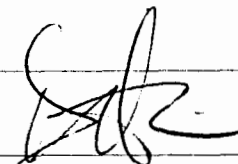
1 Red Chris Development Company Ltd. EN RT CC IN FX ##
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Canada
Att: Account Payable Ph:(604)683-0140
Fx:(604)683-0126
Em:smithib@attglobal.net

2 bcMetals EN RT CC IN FX
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B.C. V6C 2T6 0 0 1 0 0
Canada
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Vancouver DL 3D EM BT BL
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Canada
Att: Ron Simpson Ph:(604)683-0140
Fx:(604)683-0126
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DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03K1932

Phone (604) 879-7879
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 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL CHEMICAL LABORATORY LTD

Client : bcMetals
 Project : Red Chris

59 Samples
 Ship# 57=Core 2=Pulp 4=Repeat 1=Blk iPL 1 [193213:25:54:30112103:003]

Out: Nov 19, 2003
 In : Nov 17, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
90001	C	0.66	—	0.32	96810	C	1.18	1.04	0.83			
90002	C	0.88	—	0.46	96811	C	0.25	—	0.19			
90003	C	0.64	—	0.57	96812	C	0.51	—	0.45			
90004	C	0.65	—	0.81	96813	C	0.46	—	0.37			
90005	C	0.59	—	0.73	96814	C	0.59	—	0.43			
94986	C	0.12	—	0.51	96815	C	0.25	—	0.26			
94987	C	0.15	—	0.59	96816	C	0.53	—	0.52			
94988	C	0.15	—	0.53	96817	C	0.25	—	0.31			
94989	C	0.12	—	0.53	96818	C	0.68	—	0.55			
94990	C	0.24	—	1.09	96819	C	0.46	—	0.55			
94991	C	0.21	—	0.74	96825	C	0.08	—	0.46			
94992	C	0.11	—	0.44	96826	C	0.13	—	0.44			
94993	C	0.07	—	0.38	96827	C	0.03	—	0.04			
94994	C	0.12	—	0.59	96828	C	0.04	—	0.32			
94995	C	0.09	—	0.45	96829	C	0.10	—	0.65			
94996	C	0.17	—	0.42	96830	C	0.08	—	0.48			
94997	C	0.17	—	0.49	96831	C	0.10	—	0.44			
94998	C	0.29	—	0.56	96832	C	0.09	—	0.28			
94999	C	0.33	—	0.84	96833	C	0.08	—	0.31			
95000 Pulp	P	0.75	—	0.87	96834	C	0.08	—	0.38			
96791	C	0.57	—	0.29	RE 90001	R	0.69	—	0.32			
96792	C	0.64	—	0.34	RE 95000 Pulp	R	0.77	—	0.87			
96793	C	0.38	—	0.34	RE 96810	R	1.08	—	0.84			
96794	C	0.30	—	0.30	RE 96834	R	0.07	—	0.39			
96795	C	0.24	—	0.29	Blank iPL	Z	<0.01	—	—			
96796	C	0.25	—	0.32	FA StdC	Z	0.34	—	—			
96797	C	0.26	—	0.22	FA StdC REF	Z	0.33	0.33	—			
96798	C	0.16	—	0.15								
96799	C	0.36	—	0.28								
96800	C	0.51	—	0.13								
96801	C	0.24	—	0.13								
96802	C	0.12	—	0.11								
96803	C	0.17	—	0.15								
96804	C	0.29	—	0.26								
96805 Pulp	P	0.01	—	0.01								
96806	C	0.27	—	0.23								
96807	C	0.25	—	0.25								
96808	C	0.28	—	0.21								
96809	C	0.41	—	0.34								

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03K1937

Analyzed: 11/17/03
 Location: TELUS
 Phone: (604) 979-7878
 Fax: (604) 979-7898
 Email: iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

71 Samples
 Ship# 66=Core 5=Pulp 4=Repeat 1=Blk iPL 1 [193717:54:05:30112303:001]

Out: Nov 23, 2003
 In : Nov 17, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
90011	C	0.26	—	0.34	90055	C	0.06	—	0.22		
90012	C	0.32	—	0.34	90056	C	0.07	—	0.20		
90013	C	0.81	—	0.40	90057	C	0.11	—	0.23		
90014	C	0.35	—	0.45	90058	C	0.08	—	0.19		
90015	C	0.66	—	0.74	90059	C	0.05	—	0.13		
90016	C	0.58	—	0.53	90060 Pulp	P	0.75	—	0.93		
90017	C	0.35	—	0.39	90061	C	0.07	—	0.12		
90018	C	0.30	—	0.26	96840	C	0.06	—	0.38		
90019	C	0.43	—	0.35	96841	C	0.06	—	0.54		
90020 Pulp	P	0.30	—	0.36	96842	C	0.08	—	0.75		
90021	C	0.69	—	0.82	96843	C	0.13	—	0.72		
90022	C	0.60	—	0.48	96844	C	0.19	—	0.70		
90023	C	0.59	—	0.43	96850	C	0.03	—	0.01		
90024	C	0.47	—	0.61	96851	C	0.02	—	<0.01		
90025	C	0.53	—	0.58	96852	C	0.02	—	<0.01		
90026	C	0.99	—	0.94	96853	C	0.02	—	<0.01		
90027	C	0.64	—	0.62	96854	C	0.01	—	<0.01		
90028	C	0.63	—	0.83	96855	C	0.30	—	0.99		
90029	C	0.22	—	0.44	96856	C	0.42	—	0.70		
90030	C	0.52	—	0.60	96857	C	0.85	—	0.88		
90031	C	0.81	—	1.04	96858	C	0.75	—	0.93		
90032	C	0.24	—	0.33	96859 Pulp	P	0.76	—	0.95		
90033	C	0.27	—	0.31	96860	C	0.99	—	0.99		
90034	C	1.20	1.18	0.75	96861	C	0.70	—	0.97		
90035	C	1.18	1.13	0.82	96862	C	0.67	—	0.96		
90036	C	0.67	—	0.87	96863	C	0.42	—	0.77		
90037	C	0.40	—	0.43	96864	C	0.48	—	0.66		
90038	C	0.72	—	0.61	96875	C	0.82	—	0.85		
90039	C	0.53	—	0.66	96876	C	0.54	—	0.61		
90040 Pulp	P	0.02	—	0.02	96877	C	0.13	—	0.18		
90046	C	0.54	—	0.57	96878	C	0.32	—	0.54		
90047	C	1.23	1.10	1.24	96879 Pulp	P	0.56	—	0.57		
90048	C	0.50	—	0.50	RE 90011	R	0.27	—	0.34		
90049	C	0.49	—	0.38	RE 90030	R	0.55	—	0.60		
90050	C	0.47	—	0.48	RE 90055	R	0.09	—	0.24		
90051	C	0.04	—	0.02	RE 96857	R	0.77	—	0.89		
90052	C	0.05	—	0.13	Blank iPL	Z	<0.01	—	<0.01		
90053	C	0.05	—	0.13	FA StdC	Z	0.32	—	—		
90054	C	0.11	—	0.20	FA StdC REF	Z	0.33	0.33	—		

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

IL 03K1939

Phone (604) 299-7378
 Fax (604) 299-7898
 Email iplab@telus.net
 [193917:54:27:30112303:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

58 Samples

Out: Nov 23, 2003 In: Nov 17, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	56	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

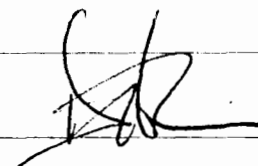
1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobe1.net
2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobe1.net
3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03K1939

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project: Red Chris

58 Samples

Ship# 56=Core 2=Pulp 3=Repeat 1=Blk iPL 1 [193917:54:27:30112303:001]

Out: Nov 23, 2003
In : Nov 17, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
89048	C	0.32	—	0.29	96886	C	0.12	—	0.16			
89049	C	0.75	—	1.35	96887	C	0.48	—	0.83			
89050	C	0.24	—	0.51	96888	C	0.24	—	0.38			
89051	C	0.17	—	0.27	96889	C	0.25	—	0.37			
89052	C	1.63	1.80	1.41	96890	C	0.27	—	0.46			
89053	C	1.54	1.52	1.03	96891	C	0.16	—	0.18			
89054	C	2.94	3.37	2.05	96892	C	0.21	—	0.36			
89055	C	0.62	—	0.69	96893	C	0.13	—	0.25			
89056	C	1.20	1.07	1.14	96894	C	0.06	—	0.19			
89057	C	0.53	—	0.89	96895	C	0.06	—	0.12			
89058	C	0.19	—	0.23	96896	C	0.14	—	0.22			
89059	C	0.40	—	0.57	96897	C	0.17	—	0.33			
89060	C	0.24	—	0.49	96898	C	0.21	—	0.34			
90041	C	0.83	—	0.92	96899 Pulp	P	0.31	—	0.37			
90042	C	0.66	—	0.67	96915	C	0.32	—	0.42			
90043	C	0.70	—	0.84	96916	C	0.20	—	0.30			
90044	C	0.41	—	0.45	96917	C	0.28	—	0.37			
90045	C	0.47	—	0.49	96918	C	0.25	—	0.29			
90092	C	0.16	—	0.30	96919 Pulp	P	0.01	—	0.02			
90093	C	0.11	—	0.27	RE 89048	R	0.32	—	0.29			
90094	C	0.12	—	0.27	RE 90093	R	0.12	—	0.27			
90095	C	0.25	—	0.71	RE 96886	R	0.12	—	0.16			
90096	C	0.12	—	0.26	Blank iPL	Z	<0.01	—	<0.01			
96865	C	0.76	—	0.93	FA_StdC	Z	0.33	—	—			
96866	C	0.83	—	0.82	FA_StdC REF	Z	0.33	0.33	—			
96867	C	1.51	1.36	1.18								
96868	C	1.23	1.14	1.01								
96869	C	1.07	0.95	0.84								
96870	C	1.04	0.94	0.95								
96871	C	0.80	—	0.84								
96872	C	0.74	—	0.73								
96873	C	1.39	1.31	1.13								
96874	C	1.68	1.51	1.47								
96880	C	0.08	—	0.14								
96881	C	0.12	—	0.13								
96882	C	0.13	—	0.15								
96883	C	0.13	—	0.15								
96884	C	0.12	—	0.23								
96885	C	0.07	—	0.11								

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck n=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL



INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS

iPL 03K1940

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[194017:54:53:30112303:001]

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

45 Samples

Out: Nov 23, 2003 In: Nov 18, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	44	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	1	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

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 Fx: (604)683-0126
 Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices FX=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk
DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BI=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS

iPL 03K1940

Contact: 1-800-368-5724
 Phone: (604) 879-7000
 Fax: (604) 879-7000
 Email: iplab@telus.net

INTERNATIONAL TETRA LABORATORY LTD.

Client : bcMetals
Project: Red Chris

45 Samples
 Ship# 44=Core 1=Pulp 3=Repeat 1=Blk iPL 1 [194017:54:53:30112303:001]

Out: Nov 23, 2003
 In : Nov 18, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
89033	C	0.16	—	0.59	90086	C	0.01	—	0.07		
89034	C	0.13	—	0.34	90087	C	0.02	—	0.08		
89035	C	0.25	—	0.72	90088	C	0.01	—	0.09		
89036	C	0.36	—	0.99	90089	C	0.09	—	0.11		
89037	C	0.33	—	0.64	90090	C	0.07	—	0.24		
89038	C	0.74	—	0.93	90091	C	0.12	—	0.28		
89039	C	0.13	—	0.10	RE 89033	R	0.17	—	0.59		
89040	C	0.30	—	0.84	RE 90066	R	0.05	—	0.21		
89041	C	0.19	—	0.53	RE 90086	R	0.02	—	0.07		
89042	C	0.16	—	0.40	Blank iPL	Z	<0.01	—	<0.01		
89043	C	0.24	—	0.38	FA StdC	Z	0.36	—	—		
89044	C	0.48	—	1.36	FA StdC REF	Z	0.33	0.33	—		
89045	C	0.17	—	0.56							
89046	C	0.21	—	0.49							
89047	C	0.53	—	0.49							
90062	C	0.07	—	0.12							
90063	C	0.05	—	0.11							
90064	C	0.07	—	0.27							
90065	C	0.01	—	<0.01							
90066	C	0.06	—	0.20							
90067	C	0.04	—	0.11							
90068	C	0.08	—	0.17							
90069	C	0.06	—	0.18							
90070	C	0.05	—	0.11							
90071	C	0.03	—	0.06							
90072	C	0.08	—	0.18							
90073	C	0.14	—	0.23							
90074	C	0.18	—	0.31							
90075	C	0.11	—	0.20							
90076	C	0.17	—	0.27							
90077	C	0.11	—	0.18							
90078	C	0.11	—	0.19							
90079	C	0.13	—	0.17							
90080	Pulp	P	0.30	0.36							
90081	C	0.01	—	0.01							
90082	C	0.15	—	0.15							
90083	C	0.09	—	0.14							
90084	C	0.02	—	0.08							
90085	C	0.01	—	0.09							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp R=Repeat Z=Blk iPL Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03K1947

Canada
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [194717:55:25:30112303:003]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

30 Samples

Out: Nov 19, 2003 In: Nov 18, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	29	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	1	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B84100	2	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

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 Em: smithib@attglobe1.net

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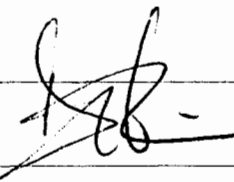
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

i. 03K1947

INTERNATIONAL PLASMA LABORATORY LTD

Case: 03K1947
 Phone: (604) 879 7878
 Fax: (604) 879 7999
 Email: iplab@telus.net

Client: bcMetals
 Project: Red Chris

Ship# 29=Core 1=Pulp 2=Repeat 1=Blk iPL 1 [194717:55:25:30112303:003]

Out: Nov 19, 2003
 In: Nov 18, 2003

Page 1 of 1
 Section 1 of 1

Sample Name	Type	Au g/mt	Au g/mt	Cu %
90097	Core	0.10	—	0.21
90098	Core	0.13	—	0.27
90099	Core	0.09	—	0.27
90100 Pulp	Pulp	0.58	—	0.56
90101	Core	0.13	—	0.27
96900	Core	0.11	—	0.21
96901	Core	0.20	—	0.20
96902	Core	0.16	—	0.21
96903	Core	0.21	—	0.16
96904	Core	0.20	—	0.15
96905	Core	0.25	—	0.26
96906	Core	0.16	—	0.24
96907	Core	0.15	—	0.31
96908	Core	0.16	—	0.26
96909	Core	0.19	—	0.36
96910	Core	0.19	—	0.26
96911	Core	0.11	—	0.30
96912	Core	0.15	—	0.26
96913	Core	0.14	—	0.19
96914	Core	0.14	—	0.18
96920	Core	0.36	—	0.47
96921	Core	0.20	—	0.27
96922	Core	0.34	—	0.44
96923	Core	0.25	—	0.34
96924	Core	0.18	—	0.27
96925	Core	0.21	—	0.30
96926	Core	0.17	—	0.17
96927	Core	0.34	—	0.43
96928	Core	0.21	—	0.36
96929	Core	0.17	—	0.28
RE 90097	Repeat	0.11	—	0.21
RE 96914	Repeat	0.14	—	0.18
Blank iPL	Blk iPL	<0.01	—	<0.01
FA StdC	Std iPL	0.34	—	—
FA StdC REF	Std iPL	0.33	0.33	—

Minimum Detection 0.01 0.07 0.01
 Maximum Detection 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA
 —=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample



CERTIFICATE OF ANALYSIS

iPL 03K1949

Vancouver, B.C.
 Canada V6C 2T6
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [194917:53:14:30112303:001]

INTERNATIONAL PLASMA LABORATORY LTD.

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

70 Samples

Out: Nov 23, 2003 In: Nov 19, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	66	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	4	Pulp	Pulp received as it is. no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

#	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS

iPL 03K1949

INTERNATIONAL PLASMA LABORATORY LTD.

Canada
 Phone (604) 879-7070
 Fax (604) 879-7000
 Email iplab@telus.net

Client : bcMetals
 Project: Red Chris

Ship# 70 Samples
 66=Core 4=Pulp 1=Blk iPL

[194911:55:37:30112403:002]

Out: Nov 23, 2003
 In : Nov 19, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	
90102	C	0.15	—	0.34	90141	C	0.26	—	0.27			
90103	C	0.09	—	0.32	90142	C	0.10	—	0.08			
90104	C	0.12	—	0.26	90143	C	0.05	—	0.06			
90105	C	0.09	—	<0.01	90144	C	0.10	—	0.12			
90106	C	0.12	—	0.23	90145	C	0.44	—	0.47			
90107	C	0.12	—	0.29	90146	C	0.35	—	0.34			
90108	C	0.16	—	0.30	90147	C	0.27	—	0.27			
90109	C	0.22	—	0.30	90148	C	0.25	—	0.23			
90110	C	0.22	—	0.35	90149	C	0.27	—	0.28			
90111	C	0.19	—	0.34	90150	C	0.88	—	0.79			
90112	C	0.21	—	0.36	90151	C	0.35	—	0.36			
90113	C	0.28	—	0.38	90152	C	0.24	—	0.23			
90114	C	0.21	—	0.27	90153	C	0.55	—	0.51			
90115	C	0.31	—	0.58	90154	C	0.51	—	0.52			
90116	C	0.31	—	0.34	90155	C	0.72	—	0.74			
90117	C	0.41	—	0.53	90156	C	1.08	1.04	1.13			
90118	C	1.11	1.10	1.15	96935	C	0.44	—	0.56			
90119	C	0.73	—	0.77	96936	C	0.53	—	0.67			
90120 Pulp	P	<0.01	—	0.02	96937	C	0.30	—	0.31			
90121	C	0.67	—	0.76	96938	C	0.24	—	0.26			
90122	C	1.20	1.17	1.16	96939 Pulp	P	0.56	—	0.56			
90123	C	1.13	1.09	1.02	96950	C	0.22	—	0.45			
90124	C	1.18	1.16	1.18	96951	C	0.24	—	0.50			
90125	C	0.74	—	0.78	96952	C	0.39	—	0.84			
90126	C	0.53	—	0.58	96953	C	0.36	—	1.03			
90127	C	1.18	1.00	0.96	96954	C	0.25	—	0.85			
90128	C	1.07	1.05	0.96	96955	C	0.21	—	0.30			
90129	C	0.24	—	0.29	96956	C	0.35	—	0.66			
90130	C	0.23	—	0.33	96957	C	0.38	—	0.80			
90131	C	0.19	—	0.17	96958	C	0.58	—	0.92			
90132	C	0.30	—	0.34	96959 Pulp	P	0.30	—	0.36			
90133	C	0.24	—	0.29	Blank iPL	Z	<0.01	—	<0.01			
90134	C	0.30	—	0.30								
90135	C	0.22	—	0.24								
90136	C	0.11	—	0.10								
90137	C	0.05	—	0.06								
90138	C	0.06	—	0.05								
90139	C	0.11	—	0.11								
90140 Pulp	P	0.29	—	0.37								

Min Limit 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA

0.01 0.07 0.01
 9999.00 9999.00 100.00
 FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL

CERTIFICATE OF ANALYSIS

ID: 03K1950

Date: _____
 Location: _____
 Phone: (604) 879-7878
 Fax: (604) 879-7898
 Email: iplab@telus.net
 [195018:21:02:30112303:001]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

59 Samples

Out: Nov 23, 2003 In: Nov 19, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	56	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is. no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 B.C. V6C 2T6 0 0 1 0 0
 Canada
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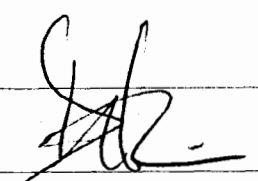
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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03K1950

Canada 1 877 981
 Phone (504) 879-7878
 Fax (504) 879-7898
 Email iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project : Red Chris

Ship#

59 Samples

56=Core 3=Pulp 1=Blk iPL 4=Repeat 1 [195018:21:02:30112303:001]

Out: Nov 23, 2003
In : Nov 19, 2003

Page 1 of 1

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
90157	C	0.69	—	0.73	96969	C	0.45	—	0.68		
90158	C	0.38	—	0.42	96970	C	0.16	—	0.20		
90159	C	0.60	—	0.57	96971	C	0.25	—	0.30		
90160 Pulp	P	0.54	—	0.56	96972	C	0.33	—	0.42		
90161	C	0.54	—	0.51	96973	C	0.16	—	0.25		
90162	C	0.58	—	0.69	96974	C	0.13	—	0.18		
90163	C	0.62	—	0.66	96975	C	0.12	—	0.14		
90164	C	0.44	—	0.51	96976	C	0.21	—	0.28		
90165	C	0.82	—	1.07	96977	C	0.18	—	0.22		
90166	C	0.07	—	0.07	96978	C	0.18	—	0.23		
90167	C	0.06	—	0.04	96979 Pulp	P	0.73	—	0.93		
90168	C	0.40	—	0.48	96980	C	0.20	—	0.28		
90169	C	0.30	—	0.37	96981	C	0.09	—	0.11		
90170	C	0.28	—	0.37	96982	C	0.21	—	0.27		
90171	C	0.09	—	0.06	96983	C	0.26	—	0.31		
90172	C	0.05	—	0.03	96984	C	0.12	—	0.18		
90173	C	0.06	—	0.03	96985	C	0.26	—	0.46		
90174	C	0.05	—	0.03	96986	C	0.31	—	0.47		
90175	C	0.05	—	0.04	96987	C	0.11	—	0.14		
90176	C	0.06	—	0.05	96988	C	0.16	—	0.21		
90177	C	0.05	—	0.02	Blank iPL	Z	<0.01	—	<0.01		
90178	C	0.05	—	0.03	RE 90157	R	0.73	—	0.73		
90179	C	0.24	—	0.37	RE 90176	R	0.06	—	0.05		
90180 Pulp	P	0.72	—	0.94	RE 96969	R	0.46	—	0.66		
90181	C	0.27	—	0.40	RE 96988	R	0.16	—	0.22		
90182	C	0.26	—	0.40	FA StdC	Z	0.35	—	—		
90183	C	0.22	—	0.33	FA StdC REF	Z	0.33	0.33	—		
90184	C	0.35	—	0.45							
90185	C	0.32	—	0.48							
90186	C	0.57	—	0.78							
96960	C	0.20	—	0.27							
96961	C	0.38	—	0.43							
96962	C	0.21	—	0.20							
96963	C	0.22	—	0.27							
96964	C	0.12	—	0.14							
96965	C	0.11	—	0.15							
96966	C	0.16	—	0.27							
96967	C	0.18	—	0.21							
96968	C	0.45	—	0.22							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL R=Repeat Z=Std iPL

CERTIFICATE OF ANALYSIS

ID: 03K1953

Canada 38-1
Phone (604) 879-7818
Fax (604) 879-7898
Email iplab@telus.net
[195309:51:13:30112803:001]

INTERNATIONAL PLASMA LABORATORY LTD

65 Samples

Out: Nov 28, 2003 In: Nov 19, 2003

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	62	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no charge	12M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

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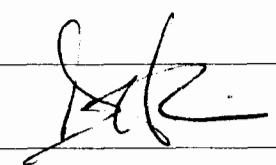
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Canada
Att: Ron Simpson Ph: (604)683-0140
Fx: (604)683-0126
Em: rgs@uniserive.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03K1953

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 Fax (604) 879-7899
 Email iplab@telus.net
 Page 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
 Project: Red Chris

Ship#

65 Samples

62=Core 3=Pulp 1=Blk iPL 4=Repeat 1 [195309:51:13:30112803:001]

Out: Nov 28, 2003
 In : Nov 19, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
89151	C	0.11	—	0.07	89190 Pulp	P	0.74	—	1.00		
89152	C	0.07	—	0.05	89191	C	0.21	—	0.73		
89153	C	0.13	—	0.08	89192	C	0.22	—	1.06		
89154	C	0.17	—	0.09	89193	C	0.12	—	0.55		
89155	C	0.21	—	0.11	89194	C	0.24	—	0.31		
89156	C	0.32	—	0.21	89195	C	0.15	—	0.23		
89157	C	0.10	—	0.08	89196	C	0.07	—	0.05		
89158	C	0.09	—	0.07	89197	C	0.13	—	0.13		
89159	C	0.11	—	0.08	89198	C	0.14	—	0.17		
89160	C	0.09	—	0.06	89199	C	0.05	—	0.09		
89161	C	0.16	—	0.12	89200	C	0.07	—	0.12		
89162	C	0.22	—	0.13	89201	C	0.13	—	0.20		
89163	C	0.26	—	0.15	89202	C	0.21	—	0.34		
89164	C	0.32	—	0.21	89203	C	0.15	—	0.34		
89165	C	0.37	—	0.22	89204	C	0.10	—	0.30		
89166	C	0.56	—	0.39	89205	C	0.14	—	0.59		
89167	C	0.34	—	0.20	89206	C	0.08	—	0.37		
89168	C	0.39	—	0.25	89207	C	0.08	—	0.34		
89169	C	0.28	—	0.19	89208	C	0.04	—	0.24		
89170 Pulp	P	0.32	—	0.36	89209	C	0.10	—	0.35		
89171	C	0.30	—	0.20	89210 Pulp	P	0.01	—	0.01		
89172	C	0.33	—	0.22	89211	C	0.13	—	0.67		
89173	C	0.22	—	0.20	89212	C	0.11	—	0.49		
89174	C	0.25	—	0.30	89213	C	0.14	—	0.78		
89175	C	0.27	—	0.25	89214	C	0.08	—	0.37		
89176	C	0.53	—	0.26	89215	C	0.08	—	0.45		
89177	C	0.27	—	0.30	Blank iPL	Z	<0.01	—	<0.01		
89178	C	0.23	—	0.32	RE 89151	R	0.10	—	0.07		
89179	C	0.19	—	0.38	RE 89170 Pulp	R	0.30	—	0.36		
89180	C	0.39	—	1.18	RE 89190 Pulp	R	0.70	—	0.98		
89181	C	0.19	—	0.71	RE 89209	R	0.10	—	0.37		
89182	C	0.29	—	0.89	FA StdC	Z	0.33	—	—		
89183	C	0.20	—	0.56	FA StdC REF	Z	0.33	0.33	—		
89184	C	0.21	—	0.69							
89185	C	0.16	—	0.80							
89186	C	0.14	—	0.49							
89187	C	0.19	—	0.73							
89188	C	0.22	—	0.87							
89189	C	0.19	—	0.77							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL R=Repeat Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03K1954

Phone: (604) 879-7829
 Fax: (604) 879-7998
 Email: iplab@telus.net
 [195409:51:40:30112803:001]

INTERNATIONAL PLASMA LABORATORY LTD.

66 Samples Out: Nov 28, 2003 In: Nov 19, 2003

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B221	64	Core	Crush, split & pulverize to -150 Mesh.	12M/Dis	03M/Dis
B31100	2	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	4	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary
 Analysis: Au(FA/AAS) Assay Cu

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 Vancouver DL 3D EM BT BL
 B.C. V6C 2T6 0 0 1 0 0
 Canada
 Att: Ron Simpson Ph: (604)683-0140
 Fx: (604)683-0126
 Em: rgs@uniserve.com

Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	% Cu Assay by AA/ICP in %	Copper	0.01	100.00

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BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS

iPL 33K1954

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Client : bcMetals
 Project: Red Chris

Ship# 66 Samples
 64=Core 2=Pulp 1=Blk iPL 4=Repeat 1 [195409:51:40:30112803:001]

Out: Nov 28, 2003
 In : Nov 19, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
89216	C	0.15	—	0.60	90197	C	0.03	—	0.03		
89217	C	0.15	—	0.77	90198	C	0.04	—	0.04		
89218	C	0.19	—	0.73	90199	C	0.29	—	0.39		
89219	C	0.11	—	0.41	90200 Pulp	P	0.01	—	0.01		
89220	C	0.14	—	0.64	90201	C	0.23	—	0.33		
89221	C	0.13	—	0.59	90202	C	0.09	—	0.09		
89222	C	0.14	—	0.66	90203	C	0.30	—	0.45		
89223	C	0.11	—	0.49	90204	C	0.45	—	0.50		
89224	C	0.06	—	0.31	90205	C	0.59	—	0.64		
89225	C	0.09	—	0.50	90206	C	0.63	—	0.60		
89226	C	0.07	—	0.29	90207	C	0.48	—	0.53		
89227	C	0.06	—	0.35	90208	C	0.75	—	0.81		
89228	C	0.05	—	0.22	96930	C	0.22	—	0.27		
89229	C	0.07	—	0.27	96931	C	0.40	—	0.48		
89230 Pulp	P	0.53	—	0.57	96932	C	0.66	—	0.72		
89231	C	0.05	—	0.19	96933	C	0.34	—	0.37		
89232	C	0.07	—	0.33	96934	C	0.19	—	0.25		
89233	C	0.04	—	0.19	96940	C	0.46	—	0.53		
89234	C	0.06	—	0.24	96941	C	0.96	—	1.11		
89235	C	0.08	—	0.27	96942	C	0.89	—	0.96		
89236	C	0.04	—	0.13	96943	C	0.97	—	1.15		
89237	C	0.05	—	0.18	96944	C	0.65	—	0.72		
89238	C	0.04	—	0.14	96945	C	0.65	—	0.89		
89239	C	0.05	—	0.19	96946	C	0.50	—	0.63		
89240	C	0.06	—	0.14	96947	C	0.48	—	0.57		
89241	C	0.54	—	0.20	96948	C	0.29	—	0.55		
89242	C	0.04	—	0.14	96949	C	0.21	—	0.48		
89243	C	0.02	—	0.13	Blank iPL	Z	<0.01	—	<0.01		
89244	C	0.03	—	0.12	RE 89216	R	0.14	—	0.58		
90187	C	0.27	—	0.36	RE 89235	R	0.07	—	0.27		
90188	C	0.38	—	0.50	RE 90197	R	0.02	—	0.03		
90189	C	0.35	—	0.45	RE 96942	R	0.92	—	0.95		
90190	C	0.19	—	0.24	FA StdC	Z	0.33	—	—		
90191	C	0.37	—	0.47	FA StdC REF	Z	0.33	0.33	—		
90192	C	0.31	—	0.39							
90193	C	0.43	—	0.53							
90194	C	0.33	—	0.42							
90195	C	0.06	—	0.06							
90196	C	0.03	—	0.04							

Min Limit 0.01 0.07 0.01 0.01 0.07 0.01
 Max Reported* 9999.00 9999.00 100.00 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample C=Core P=Pulp Z=Blk iPL R=Repeat Z=Std iPL

CERTIFICATE OF ANALYSIS

i. 03K1988

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[198816:55:24:30112603:001]

INTERNATIONAL PLASMA LABORATORY LTD

3 Samples

Out: Nov 26, 2003 In: Nov 25, 2003

bcMetals

Project : Red Chris
Shipper : Ian Smith
Shipment: PO#:
Comment:

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	3	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary
Analysis: Au(FA/AAS) Assay Cu

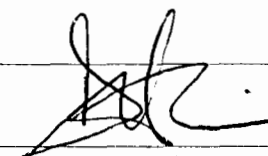
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu





CERTIFICATE OF ANALYSIS

il 03L2029

INTERNATIONAL PLASMA LABORATORY LTD

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
[202912:26:38:30120303:001]

bcMetals

Project : None Given
Shipper : Ian Smith
Shipment: PO#:
Comment:

1 Samples

Out: Dec 03, 2003 In: Dec 01, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B61101	1	Drilling	Gold drilling prepared by iPL.	12M/Dis	03M/Dis

Analytical Summary

Analysis:

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0365	Bulln	%	Au FA/Grav bullion in %	Gold	0.005	1000.000
02	0356	Bulln	%	Ag FA/Grav bullion in %	Silver	0.01	100.00
03	0331	FA/AAS	g/mt	Pt FA/AAS finish in g/mt	Platinum	0.01	1000.00
04	0341	FA/AAS	g/mt	Pd FA/AAS finish in g/mt	Palladium	0.01	1000.00

Document Distribution

1 bcMetals	EN	RT	CC	IN	FX
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Vancouver	DL	3D	EM	BT	BL
B.C. V6C 2T6	0	0	1	0	0
Canada					
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	Fx:	(604)683-0126			
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BC Certified Assayer: David Chiu

CERTIFICATE OF ANALYSIS

iL 03L2029

Canada VV 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 1
 Section 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: None Given

Ship#

1 Samples
 1=Drilling

[202912:26:38:30120303:001]

Out: Dec 03, 2003
 In : Dec 01, 2003

Sample Name	Type	Au %	Ag %	Pt g/mt	Pd g/mt
Gold Buttons	Drilling	90.880	5.25	20.92	22.83

Minimum Detection	0.005	0.01	0.01	0.01
Maximum Detection	1000.000	100.00	1000.00	1000.00
Method	Bulln	Bulln	FA/AAS	FA/AAS

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

03L2057

Contact: [REDACTED]
 Phone (604) 879-7808
 Fax (604) 879-7808
 Email: iplab@telus.net
 [205715:52:23:30120903:002]

INTERNATIONAL PLASMA LABORATORY LTD

47 Samples

Out: Dec 09, 2003 In: Dec 04, 2003

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
Comment:
 Samples prepared by John & Chris

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31108	47	CoarsePu	Coarse Pulp - Sample pulv. & prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	3	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

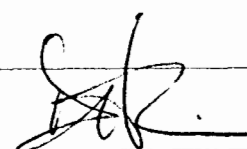
Analysis: Au(FA/AAS) Assay Cu

Document Distribution

##	Code	Method	Units	Description	Element	Limit Low	Limit High
1	Red Chris Development Company Ltd.	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 0 2 0					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 0 0 0					
	Canada						
	Att: Account Payable	Ph: (604)683-0140					
		Fx: (604)683-0126					
		Em: smithib@attglobal.net					
2	bcMetals	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 1 0 0					
	Canada						
	Att: Ian Smith	Ph: (604)683-0140					
		Fx: (604)683-0126					
		Em: smithib@attglobal.net					
3	bcMetals	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 1 0 0					
	Canada						
	Att: Ron Simpson	Ph: (604)683-0140					
		Fx: (604)683-0126					
		Em: rgs@uniserve.com					

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 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103
 * Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03L2057

Capex: 1-9-1
 Phone: (604) 379-7878
 Fax: (604) 379-7898
 Email: iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
 Project: Red Chris

47 Samples
 Ship# 47=CoarsePulp 1=B1k iPL 3=Repeat 1=Std [205715:52:23:30120903:002]

Out: Dec 09, 2003
 In : Dec 04, 2003

Page 1 of 1

Sample Name	Au	Au	Cu	Sample Name	Au	Au	Cu	Sample Name	Au	Au	Cu	
	g/mt	g/mt	%		g/mt	g/mt	%		g/mt	g/mt	%	
89101	P	0.20	—	0.48	89140	P	2.40	2.37	2.10			
89102	P	0.50	—	0.48	89141	P	2.55	2.70	1.80			
89103	P	0.18	—	0.53	89142	P	2.08	2.15	2.19			
89104	P	0.15	—	0.39	89143	P	0.16	—	0.23			
89105	P	0.21	—	0.36	89144	P	0.20	—	0.37			
89106	P	0.27	—	0.81	89145	P	0.32	—	0.51			
89107	P	0.08	—	0.09	89146	P	0.21	—	0.44			
89108	P	0.37	—	1.36	89147	P	0.16	—	0.24			
89109	P	0.15	—	0.55	Blank iPL	Z	<0.01	—	<0.01			
89110	P	0.12	—	0.31	RE 89101	R	0.20	—	0.48			
89111	P	0.16	—	0.57	RE 89120	R	0.38	—	0.50			
89112	P	0.39	—	0.86	RE 89140	R	2.40	—	2.08			
89113	P	0.29	—	0.59	FA StdC	Z	0.34	—	—			
89114	P	0.32	—	0.96	FA StdC REF	Z	0.33	0.33	—			
89115	P	0.22	—	0.69								
89116	P	0.39	—	0.51								
89117	P	0.72	—	1.33								
89118	P	0.81	—	1.26								
89119	P	0.39	—	0.80								
89120	P	0.39	—	0.50								
89121	P	0.83	—	1.30								
89122	P	0.70	—	0.94								
89123	P	1.40	1.25	1.85								
89124	P	0.34	—	0.33								
89125	P	1.95	2.00	2.51								
89126	P	2.40	2.30	2.18								
89127	P	0.16	—	0.25								
89128	P	0.89	—	1.05								
89129	P	0.75	—	1.15								
89130	P	0.19	—	0.37								
89131	P	0.35	—	0.43								
89132	P	0.42	—	0.46								
89133	P	0.40	—	0.45								
89134	P	0.59	—	0.58								
89135	P	0.34	—	0.55								
89136	P	0.71	—	0.81								
89137	P	0.43	—	0.64								
89138	P	0.37	—	0.77								
89139	P	0.94	—	1.12								

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample P=CoarsePulp Z=B1k iPL R=Repeat Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 03L2060

Canada
 Phone: (604) 279-7979
 Fax: (604) 279-7999
 Email: iplab@telus.net
 [206015:52:42:30120903:003]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals
 Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

13 Samples Out: Dec 09, 2003 In: Dec 05, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B217	13	Core	Split 250g from reject, pulverize to -150 mesh.	12M/Dis	03M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	1	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary
 Analysis: Au(FA/AAS) Assay Cu

Document Distribution

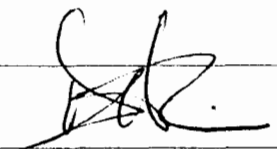
##	Code	Method	Units	Description	Element	Limit Low	Limit High
1	bcMetals	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 1 0 0					
	Canada						
	Att: Ian Smith	Ph:(604)683-0140					
		Fx:(604)683-0126					
		Em:smithib@attglobal.net					
2	bcMetals	EN RT CC IN FX					
	488 - 625 Howe Street	1 2 1 2 1					
	Vancouver	DL 3D EM BT BL					
	B.C. V6C 2T6	0 0 1 0 0					
	Canada						
	Att: Ron Simpson	Ph:(604)683-0140					
		Fx:(604)683-0126					
		Em:rgs@uniserve.com					

01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

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 DL=Download 3D=3 1/4 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C01840103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 03L2060

Phone (604) 879-7878
 Fax (604) 879-7893
 Email iplab@telus.net

INTERNATIONAL PLASMA LABORATORY LTD.

Client : bcMetals
Project : Red Chris

13 Samples
 Ship# 13=Core 1=Blk iPL 1=Repeat 1=Std iPL [206015:52:42:30120903:003]

Out: Dec 09, 2003
 In : Dec 05, 2003

Page 1 of 1
 Section 1 of 1

Sample Name	Type	Au g/mt	Au g/mt	Cu %
89148	Core	0.22	---	0.46
89149	Core	2.70	3.00	2.01
89150	Core	0.37	---	0.59
96989	Core	1.59	1.70	1.00
96990	Core	0.19	---	0.23
96991	Core	1.76	1.75	1.36
96992	Core	1.00	1.10	1.13
96993	Core	0.16	---	0.26
96994	Core	0.58	---	0.90
96995	Core	0.72	---	1.32
96996	Core	0.57	---	0.65
96997	Core	0.30	---	0.28
96998	Core	0.24	---	0.50
Blank iPL	Blk iPL	<0.01	---	<0.01
RE 89148	Repeat	0.23	---	0.46
FA_StdC	Std iPL	0.31	---	---
FA_StdC REF	Std iPL	0.33	0.33	---

Minimum Detection 0.01 0.07 0.01
 Maximum Detection 9999.00 9999.00 100.00
 Method FA/AAS FAGrav AsyMuA
 ---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

CERTIFICATE OF ANALYSIS

iPL 3L2118

Canada
 Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 [211814:38:23:30121703:005]

INTERNATIONAL PLASMA LABORATORY LTD

bcMetals

Project : Red Chris
 Shipper : Ian Smith
 Shipment: PO#:
 Comment:

124 Samples

Out: Dec 17, 2003 In: Dec 15, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	124	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis
B82101	1	Blk iPL	Blank iPL - no charge.	00M/Dis	00M/Dis
B84100	7	Repeat	Repeat sample - no Charge	12M/Dis	00M/Dis
B90002	1	Std iPL	Std iPL - no charge.		

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS) Assay Cu

Document Distribution

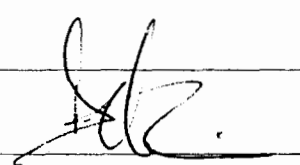
<p>1 Red Chris Development Company Ltd. 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Account Payable</p>	EN RT CC IN FX 1 2 0 2 0 DL 3D EM BT BL 0 0 0 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net
<p>2 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ian Smith</p>	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: smithib@attglobal.net
<p>3 bcMetals 488 - 625 Howe Street Vancouver B.C. V6C 2T6 Canada Att: Ron Simpson</p>	EN RT CC IN FX 1 2 1 2 1 DL 3D EM BT BL 0 0 1 0 0	Ph: (604)683-0140 Fx: (604)683-0126 Em: rgs@uniserve.com

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0364	FAGrav	g/mt	Au FA/Grav in g/mt	Gold	0.07	9999.00
03	0113	AsyMuA	%	Cu Assay by AA/ICP in %	Copper	0.01	100.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals: 2=Copy 6=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C0184090103

* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 33L2118

INTERNATIONAL PLASMA LABORATORY LTD

Phone (604) 879-7878
 Fax (604) 879-7898
 Email iplab@telus.net
 Page 1 of 2

Client : bcMetals
 Project: Red Chris

124 Samples

Ship# 124=Pulp 1=Blk iPL 7=Repeat 1=Std iPL [211814:38:23:30121703:005]

Out: Dec 17, 2003
 In : Dec 15, 2003

Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %	Sample Name		Au g/mt	Au g/mt	Cu %
1	P	0.03	—	0.10	40	P	0.09	—	0.01	79	P	0.12	—	0.39
2	P	0.11	—	0.32	41	P	0.30	—	0.23	80	P	0.39	—	0.57
3	P	0.59	—	0.54	42	P	0.11	—	0.14	81	P	0.70	—	1.02
4	P	0.41	—	0.48	43	P	0.40	—	0.24	82	P	0.13	—	0.17
5	P	0.05	—	0.11	44	P	0.02	—	0.04	83	P	0.01	—	0.02
6	P	0.25	—	0.64	45	P	0.20	—	0.49	84	P	0.67	—	0.58
7	P	0.21	—	0.24	46	P	0.35	—	0.42	85	P	0.01	—	0.02
8	P	0.10	—	0.10	47	P	0.18	—	0.30	86	P	0.47	—	0.48
9	P	0.21	—	0.27	48	P	0.06	—	0.24	87	P	0.01	—	<0.01
10	P	0.43	—	0.39	49	P	0.39	—	0.40	88	P	0.18	—	0.74
11	P	0.02	—	0.06	50	P	0.03	—	0.12	89	P	0.33	—	0.41
12	P	0.20	—	0.26	51	P	0.05	—	0.09	90	P	0.83	—	1.04
13	P	0.10	—	0.18	52	P	0.72	—	0.66	91	P	0.08	—	0.12
14	P	0.30	—	0.29	53	P	0.06	—	0.68	92	P	1.13	1.30	0.70
15	P	0.06	—	0.29	54	P	0.08	—	0.06	93	P	0.10	—	0.44
16	P	0.18	—	0.26	55	P	0.37	—	0.40	94	P	0.12	—	0.33
17	P	0.39	—	0.76	56	P	0.05	—	0.06	95	P	0.60	—	0.51
18	P	<0.01	—	<0.01	57	P	0.61	—	0.34	96	P	0.07	—	0.19
19	P	0.80	—	0.98	58	P	0.15	—	0.19	97	P	0.09	—	0.34
20	P	0.32	—	0.46	59	P	0.55	—	0.48	98	P	0.02	—	0.04
21	P	0.11	—	0.04	60	P	0.07	—	0.16	99	P	0.24	—	0.39
22	P	0.10	—	0.05	61	P	0.06	—	0.05	100	P	0.24	—	0.42
23	P	0.04	—	0.12	62	P	0.01	—	<0.01	101	P	0.10	—	0.21
24	P	0.10	—	0.11	63	P	0.12	—	0.48	102	P	0.49	—	0.39
25	P	0.08	—	0.21	64	P	0.21	—	0.46	103	P	0.25	—	0.37
26	P	0.03	—	0.10	65	P	0.12	—	0.21	104	P	0.11	—	0.16
27	P	0.02	—	0.07	66	P	0.15	—	0.33	105	P	0.86	—	1.00
28	P	0.02	—	0.03	67	P	0.18	—	0.18	106	P	0.12	—	0.18
29	P	0.86	—	0.91	68	P	2.10	2.20	1.58	107	P	0.27	—	0.20
30	P	0.07	—	0.21	69	P	<0.01	—	0.02	108	P	0.04	—	0.14
31	P	0.62	—	0.90	70	P	<0.01	—	<0.01	109	P	0.16	—	0.32
32	P	0.17	—	0.36	71	P	0.16	—	0.34	110	P	0.40	—	0.47
33	P	0.03	—	0.02	72	P	0.16	—	0.81	111	P	0.09	—	0.17
34	P	0.01	—	0.01	73	P	0.09	—	0.15	112	P	0.71	—	0.81
35	P	0.84	—	1.00	74	P	0.16	—	0.15	113	P	0.13	—	0.26
36	P	0.57	—	0.74	75	P	0.05	—	0.03	114	P	0.07	—	0.05
37	P	0.29	—	0.31	76	P	0.03	—	0.12	115	P	0.01	—	0.03
38	P	0.11	—	0.20	77	P	0.03	—	0.05	116	P	0.62	—	0.60
39	P	0.67	—	0.81	78	P	0.06	—	0.25	117	P	0.01	—	0.03

Min Limit	0.01	0.07	0.01	0.01	0.07	0.01	0.01	0.07	0.01
Max Reported*	9999.00	9999.00	100.00	9999.00	9999.00	100.00	9999.00	9999.00	100.00
Method	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA	FA/AAS	FAGrav	AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp Z=Blk iPL R=Repeat Z=Std iPL

CERTIFICATE OF ANALYSIS

iPL 3L2118

Canada
Phone (604) 879-7878
Fax (604) 879-7898
Email iplab@telus.net
Page 2 of 2

INTERNATIONAL PLASMA LABORATORY LTD

Client : bcMetals
Project: Red Chris

Ship# 124=Pulp 1=Blk iPL 7=Repeat 1=Std iPL [211814:38:23:30121703:005]

Out: Dec 17, 2003
In : Dec 15, 2003

Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %	Sample Name	Au g/mt	Au g/mt	Cu %
118	P	0.07	—	0.19							
119	P	0.09	—	0.16							
120	P	<0.01	—	0.02							
121	P	0.32	—	0.41							
122	P	0.03	—	0.03							
123	P	0.14	—	0.19							
124	P	1.20	1.40	0.67							
Blank iPL	Z	<0.01	—	<0.01							
RE 1	R	0.03	—	0.10							
RE 20	R	0.31	—	0.46							
RE 40	R	0.09	—	0.01							
RE 59	R	0.56	—	0.49							
RE 79	R	0.12	—	0.39							
RE 98	R	0.02	—	0.05							
RE 118	R	0.07	—	0.18							
FA_StdC	Z	0.33	—	—							
FA_StdC REF	Z	0.33	0.33	—							

Min Limit 0.01 0.07 0.01
Max Reported* 9999.00 9999.00 100.00
Method FA/AAS FAGrav AsyMuA

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp Z=Blk iPL R=Repeat Z=Std iPL



ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.
 212 Brooksbank Avenue
 North Vancouver BC V7J 2C1 Canada
 Phone: 604 984 0221 Fax: 604 984 0218

TO: RED CHRIS DEVELOPMENT COMPANY LTD
 488 - 625 HOWE ST.
 VANCOUVER BC V6C 2T6

Page: 1
 Date: 23-Dec-2003
 Account: REDCHRIS

CERTIFICATE VA03053776

Project:
 P.O. No:
 This report is for 83 Pulp samples submitted to our lab in Vancouver, BC, Canada on 16-Dec-2003.
 The following have access to data associated with this certificate:
 RON SIMPSON IAN SMITH

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Cu-AA62	Ore grade Cu - four acid / AAS	AAS

To: RED CHRIS DEVELOPMENT COMPANY LTD
 ATTN: IAN SMITH
 488 - 625 HOWE ST.
 VANCOUVER BC V6C 2T6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

TO: RED CHRIS DEVELOPMENT COMPANY LTD

488 - 625 HOWE ST.

VANCOUVER BC V6C 2T6

Page: 2 - A

Total # Pages: 4 (A)

Date: 23-Dec-2003

Account: REDCHRIS

CERTIFICATE OF ANALYSIS VA03053776

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Cu-AA62
		Recvd Wt kg 0.02	Au ppm 0.005	Cu % 0.01
95039		0.10	0.214	0.36
95041		0.10	0.633	0.98
95042		0.08	0.675	1.07
95043		0.16	0.607	0.82
95044		0.12	0.308	0.41
95046		0.12	0.383	0.46
95047		0.14	0.370	0.51
95048		0.10	0.719	1.12
95049		0.08	0.306	0.45
95050		0.10	0.531	0.73
95051		0.08	0.922	1.18
95052		0.08	0.366	0.61
95053		0.06	0.743	1.25
95054		0.12	0.725	0.91
95055		0.10	0.457	0.56
95056		0.10	0.393	0.50
95057		0.10	0.534	0.80
95058		0.12	0.524	0.74
95059		0.12	0.348	0.48
95061		0.12	0.540	0.66
95062		0.02	1.245	1.03
95063		0.10	0.433	0.58
95064		0.12	0.570	0.83
95065		0.12	0.692	0.78
95066		0.06	0.862	1.11
95067		0.10	0.866	1.03
95068		0.08	1.545	1.59
95069		0.12	1.855	1.89
95070		0.08	1.995	2.10
95071		0.06	1.385	1.56
95072		0.04	1.090	1.29
95073		0.08	2.99	2.11
95074		0.06	1.215	1.43
95075		0.08	1.350	1.14
95076		0.06	1.655	1.53
95077		0.10	1.980	1.54
95078		0.06	1.095	1.04
95079		0.06	0.833	0.88
95081		0.08	0.986	0.96
95082		0.06	1.705	1.37



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

To: RED CHRIS DEVELOPMENT COMPANY LTD

488 - 625 HOWE ST.

VANCOUVER BC V6C 2T6

Page: 3 - A

Total # Pages: 4 (A)

Date: 23-Dec-2003

Account: REDCHRIS

CERTIFICATE OF ANALYSIS VA03053776

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	Cu-AA62 Cu % 0.01
95083		0.08	2.12	1.57
95084		0.10	1.130	0.92
95085		0.08	1.220	1.04
95086		0.10	5.78	1.92
95087		0.06	2.61	2.34
95088		0.10	3.26	2.24
95089		0.08	2.64	0.94
95090		0.02	1.420	1.80
95091		0.04	0.865	0.61
95092		0.04	2.77	1.74
95093		0.06	2.28	1.53
95094		0.04	1.915	1.48
95095		0.08	2.41	1.60
95096		0.06	2.54	2.10
95097		0.08	2.49	2.07
95098		0.04	2.68	1.94
95099		0.08	4.35	2.98
95101		0.02	2.86	2.61
95102		0.04	2.81	2.15
95103		0.02	2.78	2.39
95104		0.08	2.22	2.04
95105		0.08	3.40	2.49
95106		0.06	3.18	2.52
95107		0.08	1.230	1.18
95108		0.06	1.310	1.18
95109		0.04	0.801	1.03
95110		0.06	1.015	1.06
95111		0.10	0.865	0.80
95112		0.08	1.725	1.06
95113		0.04	2.24	1.54
95114		0.08	0.953	0.89
95115		0.04	1.190	1.09
95116		0.02	1.570	1.34
95117		0.06	1.715	1.11
95118		0.06	0.652	0.70
95119		0.06	0.910	1.16
95122		0.04	0.727	1.10
95123		0.14	0.552	0.83
95124		0.10	0.397	0.66
95125		0.08	0.384	0.62



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Page: 4 - A

Total # Pages: 4 (A)

Date: 23-Dec-2003

Account: REDCHRIS

CERTIFICATE OF ANALYSIS VA03053776

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Cu-AA62
		Recvd Wt kg 0.02	Au ppm 0.005	Cu % 0.01
95126		0.04	0.279	0.40
95134		0.12	0.436	0.67
95142		0.10	0.388	1.63



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Page #: 1

Date: 9-Dec-2003

Account: REDCHRIS

CERTIFICATE VA03049818

Project :

P.O. No:

This report is for 124 PULP samples submitted to our lab in North Vancouver, BC, Canada on 25-Nov-2003.

The following have access to data associated with this certificate:

RON SIMPSON

IAN SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
SPL-34	Pulp Splitting Charge

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Cu-AA62	Ore grade Cu - four acid / AAS	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: RED CHRIS DEVELOPMENT COMPANY LTD
 ATTN: IAN SMITH
 488 - 625 HOWE ST.
 VANCOUVER BC V6C 2T6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Page #: 2 - A

Total # of pages : 5 (A)

Date : 9-Dec-2003

Account: REDCHRIS

CERTIFICATE OF ANALYSIS VA03049818

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Cu-AA62	Au-GRA21
		Recvd Wt kg 0.02	Au ppm 0.005	Cu % 0.01	Au ppm 0.05
96022		0.10	0.623	1.07	
96042		0.10	0.187	0.36	
96062		0.16	0.025	0.11	
96082		0.10	0.104	0.05	
96102		0.10	0.075	0.05	
96122		0.10	0.097	0.31	
96142		0.14	0.174	0.11	
96162		0.12	0.103	0.31	
96182		0.12	<0.005	<0.01	
96202		0.12	0.186	0.29	
96222		0.08	0.825	0.96	
96242		0.08	0.463	0.46	
96262		0.12	0.203	0.47	
96282		0.18	0.040	0.10	
96302		0.16	0.078	0.11	
96322		0.16	0.138	0.24	
96342		0.16	0.120	0.31	
96362		0.16	0.021	0.07	
96382		0.14	0.024	0.04	
96402		0.18	<0.005	<0.01	
96422		0.12	0.035	0.12	
96442		0.16	0.008	0.01	
96462		0.12	0.032	0.12	
96482		0.14	0.053	0.04	
96502		0.12	0.045	0.06	
96522		0.14	0.182	0.26	
96542		0.10	0.063	0.20	
96562		0.14	0.314	0.22	
96582		0.12	0.632	0.68	
96602		0.12	0.283	0.39	
96622		0.14	0.366	0.40	
96642		0.14	0.291	0.29	
96662		0.12	0.269	0.19	
96682		0.10	0.462	0.46	
96702		0.12	0.126	0.19	
96722		0.14	0.211	0.46	
96742		0.12	0.998	1.03	
96762		0.14	0.646	0.49	
96782		0.12	0.705	0.82	



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Page #: 3 - A
 Total # of pages : 5 (A)
 Date : 9-Dec-2003
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CERTIFICATE OF ANALYSIS VA03049818

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	Cu-AA62 Cu % 0.01	Au-GRA21 Au ppm 0.05
96802		0.10	0.109	0.11	
96822		0.14	0.006	0.01	
96842		0.12	0.066	0.69	
96862		0.16	0.621	0.88	
96882		0.12	0.106	0.14	
96902		0.10	0.150	0.21	
96922		0.08	0.342	0.41	
96942		0.10	0.967	0.91	
96962		0.10	0.194	0.19	
96982		0.12	0.204	0.26	
98082		0.08	0.441	0.25	
98102		0.08	0.539	0.36	
98122		0.10	0.230	0.42	
98142		0.08	0.014	0.03	
98162		0.10	<0.005	0.02	
98182		0.12	0.126	0.18	
98202		0.10	0.394	0.47	
98222		0.12	0.925	1.00	
98242		0.10	0.005	0.03	
98262		0.08	0.056	0.25	
98282		0.10	0.157	0.32	
98302		0.10	0.473	0.40	
98322		0.08	0.370	0.41	
98342		0.08	1.240	0.74	1.25
98362		0.08	0.415	0.39	
98382		0.10	0.063	0.17	
98402		0.10	0.077	0.16	
98422		0.10	0.037	0.12	
98442		0.10	0.275	0.37	
98462		0.08	0.131	0.19	
98482		0.10	0.386	0.40	
98502		0.08	0.099	0.43	
98522		0.08	0.182	0.83	
98542		0.12	0.067	0.19	
98562		0.08	0.195	0.24	
98582		0.10	0.895	1.05	
98602		0.10	0.599	0.52	
98622		0.10	0.769	0.60	
98642		0.08	0.025	0.03	



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Page # : 4 - A
 Total # of pages : 5 (A)
 Date : 9-Dec-2003
 Account: REDCHRIS

CERTIFICATE OF ANALYSIS	VA03049818
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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	Cu-AA62 Cu % 0.01	Au-GRA21 Au ppm 0.05
98662		0.14	0.009	0.03	
98682		0.12	0.028	0.11	
98702		0.14	0.166	0.35	
98722		0.12	0.160	0.32	
98742		0.10	0.273	0.65	
98762		0.12	0.426	0.76	
98782		0.12	0.075	0.18	
98802		0.12	0.877	0.68	
98822		0.10	0.117	0.38	
98842		0.14	0.217	0.72	
98862		0.14	0.057	0.23	
98882		0.12	0.015	0.06	
98902		0.12	0.036	0.14	
98922		0.12	0.053	0.10	
98942		0.14	0.111	0.32	
98962		0.12	0.116	0.49	
98982		0.12	0.598	0.60	
99382		0.10	0.634	0.54	
99402		0.12	0.096	<0.01	
99422		0.12	<0.005	<0.01	
99442		0.14	0.086	0.33	
99502		0.10	2.29	1.59	2.19
99522		0.10	1.250	0.66	1.21
99542		0.10	0.502	0.39	
99562		0.10	0.124	0.21	
99582		0.12	0.096	0.17	
99602		0.14	0.097	0.21	
99622		0.08	0.795	0.81	
99642		0.10	0.335	0.44	
99662		0.08	0.463	0.57	
99682		0.10	0.146	0.17	
99702		0.08	0.097	0.14	
99722		0.08	0.055	0.04	
99742		0.10	0.020	0.04	
99762		0.08	0.107	0.03	
99782		0.12	0.174	0.15	
99802		0.08	0.023	0.05	
99822		0.12	0.019	0.02	
99842		0.08	0.016	0.02	



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Page #: 5 - A
Total # of pages : 5 (A)
Date : 9-Dec-2003
Account: REDCHRIS

CERTIFICATE OF ANALYSIS VA03049818

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Cu-AA62	Au-GRA21
		Recvd Wt kg	Au ppm	Cu %	Au ppm
99862		0.06	0.006	0.01	
99882		0.08	0.046	0.02	
99902		0.12	0.007	0.01	
99922		0.08	0.085	0.19	
99942		0.08	0.096	0.16	
99962		0.06	0.105	0.17	
99982		0.08	0.322	0.26	



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To: RED CHRIS DEVELOPMENT COMPANY LTD

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VANCOUVER BC V6C 2T6

Page # : 1

Date : 7-Nov-2003

Account: REDCHRIS

CERTIFICATE VA03042932

Project :

P.O. No:

This report is for 126 PULP samples submitted to our lab in North Vancouver, BC, Canada on 23-Oct-2003.

The following have access to data associated with this certificate:

IAN SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SPL-34	Pulp Splitting Charge

To: RED CHRIS DEVELOPMENT COMPANY LTD
ATTN: IAN SMITH
488 - 625 HOWE ST.
VANCOUVER BC V6C 2T6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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To: RED CHRIS DEVELOPMENT COMPANY LTD

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Page #: 2 - A

Total # of pages : 2 (A)

Date : 7-Nov-2003

Account: REDCHRIS

CERTIFICATE OF ANALYSIS

VA03042932

Sample Description	Method Analyte Units LOR



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EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.
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 Phone: 604 984 0221 Fax: 604 984 0218

To: RED CHRIS DEVELOPMENT COMPANY LTD
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CREDIT INVOICE NUMBER: 1053538

BILLING INFORMATION	
Certificate:	VA03042932
Account:	REDCHRIS
Date :	05-Nov-2003
Project :	
P.O. No.:	
Quote:	
Terms:	Due on Receipt C3
Comments:	

ANALYSED FOR			UNIT	
QUANTITY	CODE	DESCRIPTION	PRICE	TOTAL

SUBTOTAL (CAD) \$ 0.00

To: RED CHRIS DEVELOPMENT COMPANY LTD
 ATTN: IAN SMITH
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TOTAL CREDITED (CAD) \$ 0.00



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To: RED CHRIS DEVELOPMENT COMPANY LTD

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Page #: 1

Date : 27-Oct-2003

Account: REDCHRIS

CERTIFICATE VA03042674

Project :

P.O. No:

This report is for 126 PULP samples submitted to our lab in North Vancouver, BC, Canada on 21-Oct-2003.

The following have access to data associated with this certificate:

RON SIMPSON

IAN SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
SPL-34	Pulp Splitting Charge

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Cu-AA62	Ore grade Cu - four acid / AAS	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

To: RED CHRIS DEVELOPMENT COMPANY LTD

ATTN: IAN SMITH

488 - 625 HOWE ST.

VANCOUVER BC V6C 2T6

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:



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Page #: 2 - A

Total # of pages : 5 (A)

Date : 27-Oct-2003

Account: REDCHRIS

CERTIFICATE OF ANALYSIS

VA03042674

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	Cu-AA62
		Recvd Wt kg 0.02	Au ppm 0.005	Au ppm 0.05	Cu % 0.01
95002		0.12	0.006		0.01
95022		0.12	0.106		0.05
95042		0.12	0.634		1.05
95062		0.12	1.050	1.16	1.04
95082		0.12	1.600	1.57	1.37
95102		0.12	2.78	3.10	2.08
95122		0.12	0.650		1.10
95142		0.12	0.303		1.61
95162		0.12	0.010		0.01
95182		0.12	0.077		0.07
95202		0.12	0.139		0.18
95222		0.12	0.236		0.26
95242		0.12	0.264		0.28
95262		0.12	0.325		0.32
97002		0.12	0.083		0.10
97022		0.12	0.085		0.07
97142		0.12	0.046		0.04
97162		0.12	0.085		0.09
97182		0.12	0.088		0.12
97202		0.12	0.175		0.37
97042		0.12	0.234		0.29
97062		0.12	0.079		0.10
97082		0.12	0.549		0.47
97102		0.12	0.042		0.06
97122		0.12	0.243		0.41
95282		0.12	0.707		0.70
95302		0.12	0.018		0.08
95322		0.12	0.037		0.04
95342		0.12	0.885		0.88
95362		0.12	0.263		0.24
95382		0.12	0.372		0.30
95402		0.12	0.277		0.48
95422		0.12	0.538		0.65
95442		0.12	0.076		0.04
95462		0.12	0.077		0.07
95482		0.12	0.205		0.37
95502		0.12	0.298		0.35
95522		0.12	0.250		0.21
95542		0.12	0.551		0.55
95562		0.12	0.343		0.53



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Page #: 3 - A

Total # of pages : 5 (A)

Date : 27-Oct-2003

Account: REDCHRIS

CERTIFICATE OF ANALYSIS VA03042674

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	Cu-AA62
		Recvd Wt kg 0.02	Au ppm 0.005	Au ppm 0.05	Cu % 0.01
95582		0.12	0.222		0.30
97222		0.12	0.693		0.69
97242		0.12	0.457		0.46
97262		0.12	0.194		0.19
97282		0.12	0.068		0.16
97302		0.12	0.814		1.18
97322		0.12	0.389		0.46
97342		0.12	0.283		0.42
97362		0.12	0.892		0.86
97382		0.12	0.446		0.58
97402		0.12	3.32	3.13	2.56
97422		0.12	1.325	1.13	1.34
97442		0.12	0.005		0.02
97462		0.12	0.172		0.32
97482		0.12	0.363		0.37
95722		0.12	1.790	1.88	1.31
95742		0.12	0.524		0.49
95762		0.12	0.432		0.51
95782		0.12	0.673		0.70
95802		0.12	1.470	1.25	1.69
95602		0.12	0.793		1.59
95622		0.12	0.343		0.37
95642		0.12	0.861		1.40
95662		0.12	0.339		0.39
95682		0.12	0.796		1.18
95702		0.12	0.703		0.79
97502		0.12	0.194		0.34
97522		0.12	0.239		0.47
97542		0.12	0.263		0.46
97562		0.12	0.151		0.26
97582		0.12	0.047		0.03
97602		0.12	0.094		0.15
97622		0.12	0.026		0.07
97702		0.12	0.210		0.36
97722		0.12	0.519		0.55
97742		0.12	0.015		0.01
97642		0.12	0.130		0.20
97662		0.12	0.185		0.34
97682		0.12	0.102		0.19
97762		0.12	0.028		0.02



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

Phone: 604 984 0221 Fax: 604 984 0218

RED CHRIS DEVELOPMENT COMPANY LTD

488 - 625 HOWE ST.

VANCOUVER BC V6C 2T6

age #: 4 - A

Total # of pages : 5 (A)

Date : 27-Oct-2003

Account: REDCHRIS

CERTIFICATE OF ANALYSIS VA03042674

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	Cu-AA62
		Recvd Wt kg 0.02	Au ppm 0.005	Au ppm 0.05	Cu % 0.01
97782		0.12	0.088		0.15
97802		0.12	0.416		0.38
97822		0.12	0.579		0.41
97842		0.12	0.178		0.20
99002		0.12	0.070		0.22
99022		0.12	0.183		0.51
99042		0.12	0.154		0.56
99062		0.12	0.254		0.73
99082		0.12	0.277		0.55
99102		0.12	0.133		0.20
99122		0.12	0.368		0.33
99142		0.12	0.255		0.47
99162		0.12	0.217		0.28
99182		0.12	0.251		0.75
95842		0.12	0.588		0.71
99242		0.12	0.148		0.21
99362		0.12	0.440		0.43
95822		0.12	0.512		0.66
97862		0.12	0.172		0.19
97882		0.12	0.389		0.14
97922		0.12	0.040		0.04
97962		0.12	0.386		0.66
99202		0.12	0.295		0.67
99222		0.12	0.168		0.21
97902		0.12	0.185		0.15
97942		0.12	0.523		0.92
99262		0.12	0.347		0.25
99282		0.12	0.016		0.01
97982		0.12	1.265	1.65	0.86
99302		0.12	0.258		0.66
99322		0.12	0.198		0.31
99342		0.12	0.225		0.30
95862		0.12	0.055		0.16
95882		0.12	0.038		0.04
95982		0.12	2.76	2.70	2.94
96002		0.12	2.26	2.28	2.34
95902		0.12	0.109		0.05
95922		0.12	0.118		0.16
95942		0.12	0.255		0.69
95962		0.12	0.180		0.20



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RED CHRIS DEVELOPMENT COMPANY LTD

488 - 625 HOWE ST.

VANCOUVER BC V6C 2T6

Page #: 5 - A

Total number of pages: 5 (A)

Date: 27-Oct-2003

Account: REDCHRIS

CERTIFICATE OF ANALYSIS

VA03042674

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	Au-GRA21	Cu-AA62
		Recvd Wt kg 0.02	Au ppm 0.005	Au ppm 0.05	Cu % 0.01
98022		0.12	0.327		0.44
98042		0.12	0.323		0.40
98062		0.12	0.394		0.33
98002		0.12	0.793		1.70
99462		0.12	0.704		1.16
99482		0.12	3.02	2.11	2.01



ASSAY CERTIFICATE

BC Metals File # A305460R Page 1
 488 - 625 Howe St., Vancouver BC V6C 2T6 Submitted by: Ron Simpson

SAMPLE#	Au** gm/mt
95062	1.06
95066	.89
95067	.89
95068	1.51
95069	1.85
95070	2.14
95071	1.37
95072	1.24
95073	2.31
95074	1.35
95075	1.40
95076	1.82
95077	1.99
95078	1.11
95079	.84
95081	1.29
95082	1.63
95083	2.18
95084	1.14
RE 95084	1.37
95085	1.41
95086	2.07
95087	2.54
95088	2.83
95089	2.70
95090	1.43
95091	.88
95092	2.43
95093	2.23
95094	2.04
95095	2.42
95096	2.48
95097	2.71
95098	2.46
STANDARD AU-1	3.42

GROUP 6 - PRECIOUS METALS BY FIRE ASSAY FROM 1 A.T. SAMPLE, ANALYSIS BY ICP-ES.
 - SAMPLE TYPE: CORE PULP
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 18 2003 DATE REPORT MAILED: NOV 21/03 SIGNED BY: *C. Toy* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Au** gm/mt
95099	4.34
95101	3.02
95102	3.10
95103	2.78
95104	2.29
95105	3.20
95106	3.06
95107	1.23
95108	1.24
95109	.90
95110	1.22
95111	.79
95112	1.72
95113	2.44
RE 95111	.76
95114	.89
95115	1.21
95116	1.64
95117	1.34
95118	.95
95119	.89
STANDARD AU-1	3.42

Sample type: CORE PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



GEOCHEMICAL ANALYSIS CERTIFICATE



BC Metals File # A305460 Page 1
 488 - 625 Howe St., Vancouver BC V6C 2T6 Submitted by: Ron Simpson

SAMPLE#	Cu ppm	Au** ppb
95039	3343	201
95041	8998	564
95042	10505	668
95043	8332	563
95044	3937	302
95046	4320	365
95047	4926	365
95048	9287	721
95049	4351	316
95050	6642	554
95051	11084	839
95052	5662	357
95053	11922	761
95054	8489	673
95055	5295	451
95056	4483	349
95057	7365	534
95058	7150	536
95059	4556	328
95061	6509	511
95062	10002	1081
RE 95062	9960	979
95063	5519	433
95064	8102	561
95065	7681	691
95066	10406	910
95067	10100	855
95068	15274	1556
95069	18215	1920
95070	19966	2061
95071	14926	1412
95072	11923	1162
95073	19270	2223
95074	14468	1269
STANDARD DST5/AU-R	147	490

GROUP 1E - 0.25 GM SAMPLE DIGESTED WITH HClO4-HNO3-HCl-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.
 - SAMPLE TYPE: CORE PULP AU** GROUP 3B - 30.00 GM SAMPLE ANALYSIS BY FA/ICP.
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 4 2003 DATE REPORT MAILED: Nov 14/03 SIGNED BY: *C.L.* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Assay in progress for Au > 1000 ppb

SAMPLE#	Cu ppm	Au** ppb
95075	10666	1376
95076	14979	1974
95077	14784	2045
95078	9546	1168
95079	8623	855
95081	9189	1142
95082	13053	1531
95083	14898	1963
95084	8556	1376
95085	9724	1353
95086	18271	2449
95087	22732	3066
95088	20451	3022
95089	17478	2792
95090	8889	1362
RE 95090	8554	1350
95091	5879	1019
95092	16611	2557
95093	14691	2371
95094	14174	1888
95095	16378	2453
95096	19942	2530
95097	19181	2610
95098	18260	2945
95099	26957	4200
95101	25064	2953
95102	20005	3410
95103	22923	2667
95104	19241	2150
95105	24595	3351
95106	24014	3179
95107	11593	1185
95108	11284	1054
95109	9735	886
STANDARD DST5/AU-R	141	480

Sample type: CORE PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cu ppm	Au** ppb
95110	10813	1324
95111	7782	834
95112	10986	1698
95113	14276	2354
95114	8446	882
95115	11066	1181
95116	12443	1739
95117	11030	1507
95118	7163	864
95119	11292	973
95122	10988	761
95123	7925	573
95124	6670	418
95125	6251	397
95126	4063	328
RE 95126	3989	282
95134	6806	462
95142	16255	304
STANDARD DST5/AU-R	145	497

Sample type: CORE PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Appendix VII

CDN Resource Laboratories Ltd.

10945-B River Road, Delta, B.C., V4C 2R8 Ph: 604 596-2245 Fax: 604 588-3960

To: bcMetals Corporation
1003, 1575 Beach Avenue
Vancouver, B.C.
V6G 1Y5

File No: 230703
Date: September 15, 2003
Proj: Red Chris

Attn: Mr. Carl Zuber

REPORT ON THE PREPARATION OF ASSAY STANDARD REFERENCE MATERIALS (STANDARDS BCM-L, BCM-M, BCM-H)

CDN Resource Laboratories Ltd. received a shipment of samples from bcMetals Corporation. This material was used to prepare three homogeneous pulps suitable for use as assay standard reference materials. The three standards were prepared separately and in an identical manner as follows:

1. The sample was dried. The material was mechanically ground then screened through a 200 mesh sieve. Oversize material was reground and then rescreened.
2. The -200 fraction was mechanically mixed for 24 hours (tumbled end over end in a 50 gallon drum at approximately 12 rpm).

Cuts were taken from the standard and assayed to test for homogeneity. In all cases assay results were deemed acceptable for purposes of homogeneity.

Random splits were taken from the samples for round-robin analysis. Round-robin samples were sent to the following laboratories: Acme Laboratories (Vancouver), ALS Chemex (Vancouver), Assayers Canada (Vancouver), and IPL (Vancouver).

The standards were bagged in lots of approximately 100 g in tin-top kraft bags.

The standards were shipped to bcMetals Corporation for insertion into the sample stream.


Duncan Sanderson, Certified Assayer of British Columbia



Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Assay Certificate

3V-0424-PA1

Company: **CDN Resource Laboratories Ltd.**
Project: **BCM**
Attn: **Duncan Sanderson**

Aug-27-03

We hereby certify the following assay of 24 pulp samples submitted Aug-19-03

Sample Name	Au g/tonne	Cu %
BCM-L-1	0.29	0.363
BCM-L-2	0.28	0.363
BCM-L-3	0.28	0.361
BCM-L-4	0.30	0.357
BCM-L-5	0.29	0.360
BCM-L-6	0.29	0.359
BCM-L-7	0.29	0.360
BCM-L-8	0.30	0.357
BCM-L-9	0.30	0.356
BCM-L-10	0.29	0.361
BCM-L-11	0.28	0.362
BCM-L-12	0.29	0.356
BCM-L-13	0.29	0.359
BCM-L-14	0.29	0.361
BCM-L-15	0.28	0.360
BCM-L-16	0.28	0.358
BCM-L-17	0.29	0.364
BCM-L-18	0.31	0.362
BCM-L-19	0.29	0.359
BCM-L-20	0.30	0.360
BCM-M-1	0.56	0.570
BCM-M-2	0.54	0.564
BCM-M-3	0.55	0.569
BCM-M-4	0.55	0.561
*DUP BCM-L-1	0.28	0.362
*DUP BCM-L-10	0.29	0.361
*DUP BCM-L-20	0.30	0.364
*96-8	0.38	
*KC-1a (1/2)		0.316
*BLANK	<0.01	<0.001

Certified by



Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Testing for over 25 Years

Assay Certificate

3V-0424-PA2

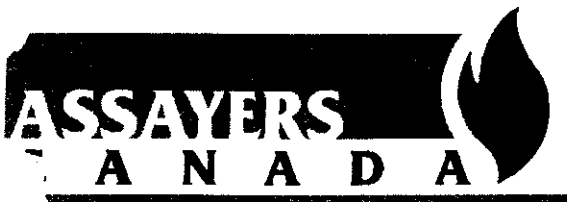
Company: **CDN Resource Laboratories Ltd.**
Project: **BCM**
Attn: **Duncan Sanderson**

Aug-27-03

We *hereby certify* the following assay of 24 pulp samples submitted Aug-19-03

Sample Name	Au g/tonne	Cu %
BCM-M-5	0.55	0.572
BCM-M-6	0.54	0.574
BCM-M-7	0.53	0.569
BCM-M-8	0.55	0.567
BCM-M-9	0.55	0.570
BCM-M-10	0.64	0.564
BCM-M-11	0.54	0.566
BCM-M-12	0.63	0.568
BCM-M-13	0.55	0.571
BCM-M-14	0.53	0.567
BCM-M-15	0.58	0.573
BCM-M-16	0.58	0.561
BCM-M-17	0.54	0.565
BCM-M-18	0.54	0.559
BCM-M-19	0.51	0.568
BCM-M-20	0.61	0.562
BCM-H-1	0.70	0.916
BCM-H-2	0.79	0.928
BCM-H-3	0.76	0.912
BCM-H-4	0.74	0.915
BCM-H-5	0.74	0.916
BCM-H-6	0.75	0.921
BCM-H-7	0.73	0.918
BCM-H-8	0.79	0.916
*DUP BCM-M-5	0.58	0.569
*DUP BCM-M-14	0.55	0.570
*DUP BCM-H-4	0.74	0.919
*97-2	1.36	
*KC-1a (1/2)		0.314
*BLANK	<0.01	<0.001

Certified by



Assayers Canada
8282 Sherbrooke St.
Vancouver, B.C.
V5X 4R6
Tel: (604) 327-3436
Fax: (604) 327-3423

Quality Assaying for over 25 Years

Assay Certificate

3V-0424-PA3

Company: **CDN Resource Laboratories Ltd.**
Project: **BCM**
Attn: **Duncan Sanderson**

Aug-27-03

We hereby certify the following assay of 12 pulp samples submitted Aug-19-03

Sample Name	Au g/tonne	Cu %
BCM-H-9	0.82	0.913
BCM-H-10	0.75	0.912
BCM-H-11	0.78	0.919
BCM-H-12	0.80	0.923
BCM-H-13	0.74	0.927
BCM-H-14	0.78	0.918
BCM-H-15	0.77	0.921
BCM-H-16	0.77	0.926
BCM-H-17	0.75	0.935
BCM-H-18	0.75	0.928
BCM-H-19	0.74	0.917
BCM-H-20	0.78	0.924
*DUP BCM-H-9	0.76	0.915
*DUP BCM-H-18	0.73	0.926
*96-8	0.39	
*KC-1a (1/2)		0.315
*BLANK	<0.01	<0.001

Certified by _____



ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue
North Vancouver BC V7J 2C1 Canada
Phone: 604 984 0221 Fax: 604 984 0218

CDN RESOURCE LABORATORIES LTD.
10945-B RIVER RD
DELTA BC V4C 2R8

Page #: 2 - A
Total # of pages : 3 (A)
Date : 29-Aug-2003
Account: AHM

Project : BCM

CERTIFICATE OF ANALYSIS VA03031420

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	Cu-AA62a Cu % 0.001
BCM-L-1		0.08	0.280	0.364
BCM-L-2		0.08	0.289	0.362
BCM-L-3		0.08	0.290	0.363
BCM-L-4		0.08	0.272	0.361
BCM-L-5		0.08	0.299	0.366
BCM-L-6		0.08	0.284	0.367
BCM-L-7		0.08	0.275	0.361
BCM-L-8		0.08	0.258	0.361
BCM-L-9		0.08	0.292	0.366
BCM-L-10		0.08	0.276	0.357
BCM-L-11		0.08	0.265	0.353
BCM-L-12		0.08	0.298	0.360
BCM-L-13		0.08	0.218	0.363
BCM-L-14		0.08	0.332	0.358
BCM-L-15		0.08	0.285	0.362
BCM-L-16		0.08	0.282	0.358
BCM-L-17		0.08	0.284	0.364
BCM-L-18		0.08	0.289	0.363
BCM-L-19		0.08	0.283	0.372
BCM-L-20		0.08	0.286	0.356
BCM-M-1		0.08	0.556	0.565
BCM-M-2		0.08	0.595	0.560
BCM-M-3		0.08	0.566	0.569
BCM-M-4		0.08	0.604	0.545
BCM-M-5		0.08	0.544	0.554
BCM-M-6		0.08	0.557	0.556
BCM-M-7		0.08	0.559	0.562
BCM-M-8		0.08	0.564	0.568
BCM-M-9		0.08	0.577	0.561
BCM-M-10		0.08	0.632	0.560
BCM-M-11		0.08	0.572	0.561
BCM-M-12		0.08	0.589	0.557
BCM-M-13		0.08	0.566	0.559
BCM-M-14		0.08	0.581	0.552
BCM-M-15		0.08	0.537	0.566
BCM-M-16		0.08	0.557	0.560
BCM-M-17		0.08	0.543	0.546
BCM-M-18		0.08	0.544	0.553
BCM-M-19		0.08	0.537	0.545
BCM-M-20		0.08	0.514	0.542



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1 Canada

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CDN RESOURCE LABORATORIES LTD.

10945-B RIVER RD

DELTA BC V4C 2R8

Page #: 3 - A

Total # of pages : 3 (A)

Date : 29-Aug-2003

Account: AHM

Project : BCM

CERTIFICATE OF ANALYSIS VA03031420

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt kg 0.02	Au-AA23 Au ppm 0.005	Cu-AA62a Cu % 0.001
BCM-H-1		0.08	0.722	0.868
BCM-H-2		0.08	0.753	0.886
BCM-H-3		0.08	0.789	0.886
BCM-H-4		0.08	0.783	0.870
BCM-H-5		0.08	0.789	0.877
BCM-H-6		0.08	0.741	0.890
BCM-H-7		0.08	0.777	0.892
BCM-H-8		0.08	0.777	0.906
BCM-H-9		0.08	0.744	0.884
BCM-H-10		0.08	0.774	0.883
BCM-H-11		0.08	0.767	0.877
BCM-H-12		0.08	0.771	0.876
BCM-H-13		0.08	0.767	0.890
BCM-H-14		0.08	0.805	0.885
BCM-H-15		0.08	0.755	0.879
BCM-H-16		0.08	0.722	0.873
BCM-H-17		0.08	0.800	0.886
BCM-H-18		0.08	0.749	0.889
BCM-H-19		0.08	0.710	0.886
BCM-H-20		0.08	0.741	0.878



ASSAY CERTIFICATE



CDN Resource Laboratories Ltd. PROJECT BCM File # A303565 Page 1

10945-B River Road, Delta BC V4C 2R8 Submitted by: Duncan Sanderson

SAMPLE#	Cu %	Au** gm/mt
BCM-L-1	.339	.28
BCM-L-2	.346	.29
BCM-L-3	.346	.29
BCM-L-4	.341	.28
BCM-L-5	.342	.29
BCM-L-6	.339	.29
BCM-L-7	.342	.29
BCM-L-8	.343	.30
BCM-L-9	.341	.29
BCM-L-10	.338	.29
BCM-L-11	.337	.29
BCM-L-12	.337	.29
RE BCM-L-12	.335	.31
BCM-L-13	.335	.27
BCM-L-14	.335	.27
BCM-L-15	.340	.28
BCM-L-16	.340	.28
BCM-L-17	.338	.28
BCM-L-18	.338	.29
BCM-L-19	.333	.28
BCM-L-20	.343	.30
STANDARD R-2/AU-1	.569	3.35

GROUP 7TD - 1.00 GM SAMPLE, 4 ACID (HF-HClO4-HNO3-HCL) DIGESTION TO 100 ML, ANALYSIS BY ICP-ES.
AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: AUG 19 2003

DATE REPORT MAILED: *Sept 3/03*

SIGNED BY: *[Signature]* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Cu %	Au** gm/mt
BCM-M-1	.549	.60
BCM-M-2	.554	.58
BCM-M-3	.561	.60
BCM-M-4	.550	.56
BCM-M-5	.547	.55
BCM-M-6	.552	.56
BCM-M-7	.554	.61
BCM-M-8	.554	.55
BCM-M-9	.553	.60
BCM-M-10	.562	.56
BCM-M-11	.567	.58
BCM-M-12	.563	.61
BCM-M-13	.559	.65
BCM-M-14	.564	.61
BCM-M-15	.567	.57
RE BCM-M-15	.557	.60
BCM-M-16	.563	.56
BCM-M-17	.557	.57
BCM-M-18	.565	.58
BCM-M-19	.560	.53
BCM-M-20	.562	.53
STANDARD R-2/AU-1	.568	3.38

Sample type: PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Cu %	Au** gm/mt
BCM-H-1	.913	.74
BCM-H-2	.909	.77
BCM-H-3	.913	.72
BCM-H-4	.922	.82
BCM-H-5	.917	.78
BCM-H-6	.919	.74
BCM-H-7	.915	.74
BCM-H-8	.913	.71
BCM-H-9	.909	.78
BCM-H-10	.910	.75
BCM-H-11	.927	.71
BCM-H-12	.906	.74
BCM-H-13	.912	.78
BCM-H-14	.917	.73
RE BCM-H-14	.909	.75
BCM-H-15	.917	.81
BCM-H-16	.920	.68
BCM-H-17	.934	.74
BCM-H-18	.923	.78
BCM-H-19	.924	.74
BCM-H-20	.907	.72
STANDARD R-2/AU-1	.568	3.37

Sample type: PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



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EXCELLENCE IN ANALYTICAL CHEMISTRY

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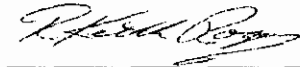
Project : BCM
P.O. No:
This report is for 60 PULP samples submitted to our lab in North Vancouver, BC, Canada on 19-Aug-2003.
The following have access to data associated with this certificate:
DUNCAN SANDERSON BARRY SMEE

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
Cu-AA62a	Ore grade Cu - four acid/AAS	AAS

To: CDN RESOURCE LABORATORIES LTD.
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 

CERTIFICATE OF ANALYSIS

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Project : BCM
 Shipper : Duncan Sanderson
 Shipment: PO#:
 Comment:

60 Samples

Out: Aug 25, 2003 In: Aug 19, 2003

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	60	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis

NS=No Sample Rep=Replicate M=Month Dis=Discard

Analytical Summary

Analysis: Au(FA/AAS 30g)/mt Cu Assay /

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0113	AsyMuA	%	Cu Assay (MuAc) by AA/ICP in % 3 dig	Copper	0.001	100.000

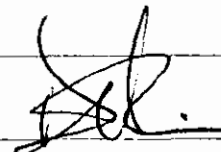
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* Our liability is limited solely to the analytical cost of these analyses.

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APPENDIX 2

QUALITY CONTROL OF ASSAY DATA

RED CHRIS EXPLORATION

1994-2003

for

**Red Chris Development Co. Ltd.
Suite 488-625 Howe St.,
Vancouver, B. C. V6C 2T6**

by

**A. J. Sinclair, P. Eng./P. Geo
Sinclair Consultants Ltd.
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January 22, 2004

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SUMMARY

1. The 1994 and 1995 American Bullion assay data for Au and Cu by Min-En lab are of an acceptable and consistent quality, based on a re-evaluation of quality control information summarized by Smee (1995, 1996) and including (1) replicate analyses of three standards and (2) duplicate analyses of many pulps by an independent lab (Chemex).
2. Three in-house standards prepared for Red Chris Development Company Ltd. (RCDC) by CDN Resource Laboratories Ltd. in 2003, have well-established mean values for Cu and Au that make the standards useful reference materials for quality control of sampling and assaying related to the 2003 drilling program. These standards were inserted routinely with analytical batches to obtain the 2003 analytical data.
3. The principal lab for assaying samples from the 2003 drilling program is IPL Ltd. Repeat analyses of standards indicate that IPL 2003 Cu and Au analyses are of acceptable accuracy.
4. Every 20th IPL pulp was submitted to an independent lab (Chemex) in order to monitor for bias. Results indicate that for both Cu and Au the two labs agree satisfactorily. Where bias is noted, it is either negligible in magnitude or affects so few samples near the cutoff grade that the bias will have negligible impact on resource/reserve estimates.
5. Precision of IPL data is adequate, as demonstrated by independent data sets including (1) repeat analyses of standards, and (2) repeat analyses of pulps checked by Chemex.
6. Inherent geological (sampling) variability is the principal contributor to total variability within the data. For Cu the sampling variability is about 5 times the combined subsampling plus analytical variability; for Au the sampling variability is about 2.5 times the combined subsampling plus analytical variability. All these sources of error are random and will be minimized during resource/reserve estimation because many data will be used for the estimation of each block and the errors are compensating.
7. The Au/Cu ratio for various data sets is consistent, ranging from about 0.8 to 1.0.

INTRODUCTION

This report, prepared at the request of Mr. Ian Smith, President and COO of bcMetals Corporation and RCDC, has the general aim of reporting on the quality and suitability of data to be used as the basis of a resource estimate of the Red Chris deposit. The available data includes half-core samples obtained by American Bullion during the summers of 1994 and 1995 and half-core samples from fill-in drilling by RCDC during the late summer of 2003. The American Bullion pulps and rejects were not available. Hence, quality of data was assessed by a re-evaluation of information in two reports on quality control by B. Smee (1995, 1996). For the 2003 drill data, a rigorous quality control program was instituted that incorporated:

1. preparation of 3 in-house standards (low, medium and high grades) and their integration into analyses throughout the program,
2. duplicate analyses of every 20th pulp by a second lab (Chemex) as a monitor for bias,
3. duplicate analyses of selected pulps by the principal lab (IPL) as a check on analytical precision of the principal lab, and
4. an independent sampling of half-cores for analysis by IPL to provide an indication of inherent geological (short range sampling) variability.

EVALUATE AMERICAN BULLION QC DATA (Smee Reports 1995 and 1996)

1994 QC Data (Smee, 1995)—data file: 94assayd.eas

Min-En was the principal lab for the 1994 assay data. A selection of 248 duplicate pulps were analyzed by Chemex as a check on Min-En results. Note that such duplicates do not provide a quantitative estimate of the precision of either of the labs in question, rather, they produce an average precision of the two labs with no indication as to which, if either, is the better quality lab. These paired data for Cu are shown in Figure 1--the two labs compare favourably for values below 0.67% Cu—bias is not evident and the scatter about the $y = x$ line is acceptable. If 3 outliers are omitted the average precision of the labs is 10.4% for low Cu values (Figure 2) with an average absolute difference of 0.01% Cu for data averaging 0.209% Cu. For values >0.67% Cu (Figure 3) there is no evidence of bias; the average absolute difference is 0.031% Cu and the average precision of the two labs is about 7.3%.

The Au/Cu ratio for these data is variable but averages about 0.82; there is a relatively strong correlation between Au and Cu values.

The duplicate gold data, shown on Figure 4, are divided into two groups based on density of values. A low group (less than 0.48gpt Au) shows no evidence of bias (Figure 5). The

random error is large with an average 2-lab precision of 61%. The 26 high Au values have an average 2-lab precision of 24.4% (Figure 6) for data averaging about 0.9 gpt Au, and show a small fixed bias (demonstrable by a paired t-test) of about $(0.938 - 0.863) = 0.075$ gpt with Chemex high relative to Min-En.

All precisions quoted previously in this section are average precisions for Min-En and Chemex data. There is nothing in Smee's 1995 report that allows the quantitative determination of precision of the Min-En data. The ability of Min-En to reproduce three standards (average Cu values of 0.474%, 1.306% and 0.511%; average corresponding gold grades of 0.137gpt, 0.949gpt and 0.260gpt) within narrow limits over a period of approximately 5 months, as shown graphically in Smee's report, is a good indication of an acceptable level of random error (i.e., acceptable precision).

Overall, the 1994 American Bullion data by Min-En agree adequately with checks by Chemex. Where bias occurs it is small and Chemex is high relative to Min-En. Hence, accepting Min-En data might involve a small element of conservatism. I agree with Smee's conclusion that Min-En replicate analyses of standards represent a reasonable indication that Min-En results are accurate relative to those standards.

1995 QC Data (Smee, 1996)—data file: 95assayd.eas

The 1995 quality control program was more extensive than that of 1994 and is described in more detail by Smee than his account of the 1994 data. Data reproduced by Smee are re-evaluated in the following subsections.

Standards

Three standards, RC-A, RC-B and Min-En were analyzed in replicate by Min-En on an ongoing basis during the sampling/analytical program for 1995. Time plots of these analyses, in Smee (1996), show a remarkably narrow range of reproducibility in all cases. A summary of available statistics is given in Table 1.

TABLE 1: STATISTICAL PARAMETERS* FOR THREE STANDARDS FOR 1994 AND 1995 ANALYTICAL DATA.

Metal	Year	Red Chris and Min-En Standards					
		RC-A		RC-B		Min-En	
		m*	s	m*	s	m*	s
Au	1994	0.137		0.949		0.260	
	1995	0.125	0.006	0.919	0.039	0.259	0.009
Cu	1994	0.474		1.306		0.511	
	1995	0.466	0.002	1.300	0.003	0.519	0.004

*m = mean value, s = standard deviation; Cu in %; Au in gpt

Overall precisions can be determined for the 1995 data because standard deviations of the replicate analyses are available. These precisions are summarized in Table 2

and indicate remarkably good reproducibility of standard values. In all cases, precisions for Cu are very much better than for Au. These levels of precision are optimistic relative to what would be expected from routine data because standards are extremely well homogenized materials and generally become known to the lab operators (of course the Min-En standard was an internal lab standard rather than a client-inserted standard).

TABLE 2: AVERAGE PRECISIONS DETERMINED FROM REPLICATE ANALYSES OF STANDARDS, 1995 (Data from Smee, 1995, 1996)

Standard m(gpt)	Au Pr	Au m(%)	Cu Pr	Cu
RC-A	0.125	9.6%	0.466	0.9%
RC-B	0.919	17.0%	1.300	1.0%
Min-En	0.259	6.9%	0.519	3.1%

m = average, Precision = Pr = 200s/m

There is no way of checking for accuracy quantitatively from the data available in Smee's reports because no accepted values for the standards are given.

The data of Table 1 are useful in comparing analytical results for standards in 1995 with results for the previous year. The copper data for the two years are consistent for all standards. This implies that all the copper data for 1994 and 1995 are of consistent accuracy. The gold data, however, present a minor problem as follows: the average gold values reported for RC-A and RC-B for 1995 are significantly lower than are the average values of 1994. Conversely, the gold average for the Min-En standard for 1995 is slightly higher than the corresponding average for 1994 data. The bias in the RC standards can be demonstrated by conducting a test to determine if the 1994 values are within the 95% confidence limits of the 1995 data. For both standards the 1994 data are outside the confidence limits of the 1995 values for Au in the two standards and we conclude that there is a small but significant bias between the gold values reported for 1994 and 1995. For both RC standards, the 1994 data are high relative to the 1995 values—for RC-A by $100(.012)/.125 = 9.6\%$ and for RC-B by $100(.03)/.919 = 3.3\%$. There are no recent, independent checks of accuracy of these data. From a practical point of view the great majority of very low gold values circa 0.125 gpt (mean value of RC-A) will have only a minor impact on resource/reserve estimation—consequently, any potential negative impact of these biases will be minor. The bias noted for standard RC-B is within the range commonly encountered for data sets of this type.

Duplicate Data

The 1995 duplicate Au data are shown in Figure 7. Although a linear model almost superimposes on the $y = x$ line for the total data, complexity is indicated by the combination of a positive y-intercept and a slope less than 1.0. Two subgroups are

defined by a gap in the data. A group of low Au values (<0.4 gpt) are seen to be biased (Figure 8) with Min-En high relative to Chemex—the average difference (based on a linear model) is shown for a few pertinent values below:

Chemex value (gpt)	0.1	0.2	0.3	0.35
Calc'd Min-En value	0.134	0.240	0.347	0.400
Diff as % of Min-En	25.4%	16.7%	13.5%	12.5%

The duplicate, high-Au data, shown on Figure 9, are well-reproduced by Min-En and Chemex; the linear model is almost superimposed on the $y = x$ line. The average precision of the two labs is 19% for an average Au grade of 0.688 gpt.

The average Au/Cu ratio for these 496 samples is 1.05 ± 0.06 (average with 95% confidence limits). The relatively strong correlation of Au and Cu is evident in the linear trend of Figure 10.

Duplicate Cu data, ranging up to 1.57% Cu, are very well duplicated by Min-En and Chemex (Figure 11). Two subgroups are based on density of data; Culo is <0.68% Cu; Cuhi is >0.76%Cu. The low values (averaging about 0.158%Cu) have an average precision for the two labs of 11.9% and a mean absolute difference of 0.008%; the upper group (averaging about 0.98%Cu) has an average precision for the two labs of 5.9% and a mean absolute difference of 0.023%Cu.

In summary: the reproducibility of Cu by the two labs in 1995 is exceptionally good. Au values above 0.4 gpt are well reproduced by both labs; for values <0.4 gpt Min-En is significantly higher than Chemex on average, but this will have little overall impact on resource/reserve estimation because many of the low values will not be important in defining reserves.

2003 DRILLING PROGRAM

Introduction

A program of infill drilling and sampling was undertaken in August 2003 with quality control sampling integrated into the general program. Evaluation of several labs (Assayers, Chemex, Acme, IPL) led to IPL being selected as the principal lab for analyses, with Chemex as the check lab. The overall QC program involved establishing standards, monitoring of IPL results by Chemex and duplicate sampling and analyses, as discussed below.

In-House Standards—data files: umpireL.eas, umpireM.eas, umpireH.eas

Round Robin Analyses

Three in-house standards (high, medium and low grades) were prepared by CDN Resource Laboratories Ltd. (CDN) for RCDC. Following the physical preparation,

20 subsamples of each pulped standard were sent to Assayers Ltd to test for homogeneity. The test results were deemed satisfactory by CDN and twenty samples of each were then sent to each of IPL, Chemex and Acme. Summary statistics for results by Assayers Ltd. and the 3 additional labs are given in Table 3. Examination of these results indicates that IPL is low for Au in two standards, relative to the other three labs and IPL is low for Cu in all standards relative to the other three labs. This suggests a problem with IPL analyses (i.e., a possible low bias for both Cu and Au) as emphasized in Table 4 where IPL data are compared with the 4-lab and 3-lab averages.

TABLE 3: AVERAGE GRADES BY FOUR TEST LABS FOR 3 IN-HOUSE STANDARDS

Std	Metal	IPL		Assayers		Chemex		Acme	
		m*	s*	m*	s*	m*	s*	m*	s*
BCM_L	Au	.285	.011	.291	.008	.282	.005	.286	.008
	Cu	.322	.005	.360	.002	.362	.004	.340	.003
BCM_M	Au	.524	.027	.559	.036	.565	.027	.578	.030
	Cu	.478	.006	.567	.004	.557	.008	.558	.006
BCM_H	Au	.675	.054	.762	.028	.762	.026	.749	.035
	Cu	.873	.011	.920	.006	.883	.009	.916	.007

* m = arithmetic mean, s = standard deviation, Cu in %, Au in gpt. N = 20 for each

TABLE 4: AVERAGE GRADES FOR THREE IN-HOUSE STANDARDS

Std	Metal	4 Labs		3Labs (omit IPL)		IPL original	
		m	s	m	s	m	s
BCM-L	Au	.286	.0133	.286	.0142	.285	.011
	Cu	.346	.0169	.354	.0107	.322	.005
BCM-M	Au	.556	.0352	.567	.0309	.524	.027
	Cu	.540	.0367	.561	.0076	.478	.006
BCM-H	Au	.737	.0519	.757	.0302	.675	.054
	Cu	.898	.022	.907	.0184	.873	.011

To check these contrasting results summarized in Table 4, three tests were undertaken:

1. IPL was presented with the problem and asked to reanalyze all the pulps (i.e., 3 x 20 = 60 pulps to be reanalyzed).
2. Drill hole 248 was the first hole to be sampled and assayed after round robin analyses of the in-house standards. For Hole 248 all samples above 0.3 % Cu

were reanalyzed by a lab other than IPL or Chemex (Acme was selected arbitrarily).

3. The first batch of monitor assays by Chemex (which included samples taken shortly after the umpire samples were first analyzed) was compared with IPL results.

Reanalyses of Standards by IPL—data file:

The original and check analyses of standards by IPL are summarized in Table 5. The check analyses by IPL are much more in line with results from the other three labs than are the original data. I conclude, the original IPL data were in error

New, accepted mean values for the 3 standards, calculated as a weighted average of the 3-lab average and the new IPL results, are listed in Table 5.

TABLE 5: COMPARE ORIGINAL AND CHECK-IPL ANALYSES FOR IN-HOUSE STANDARDS

Std	Metal	IPL (Original)		IPL (Check)		New Mean Value
		m	s	m	s	
BCM-L	Au	.285	.001	.295	.012	0.288gpt
	Cu	.322	.005	.351	.006	0.353%
BCM-M	Au	.524	.027	.541	.030	0.561gpt
	Cu	.478	.006	.561	.007	0.561%
BCM-H	Au	.675	.054	.703	.030	0.744gpt
	Cu	.873	.011	.907	.013	0.907%

M = mean value, s = standard deviation, N = 20 for each case. Au in gpt, Cu in %.

Hole 248 Repeat Analyses by Acme—data file: 03-248.eas

Eighty-three sample pulps from ddh 248, with reported Au grades in excess of 0.3gpt, were submitted to Acme Lab as an independent check on initial results by IPL. Acme and IPL gold values for ddh 248 pulps show no evidence of bias (Figure 12). Scatter about the best fit line is less for data pairs averaging less than 1.1 gpt compared with higher values. For the lower values the mean absolute difference is 0.048gpt, the relative error is 0.102 for grades averaging 0.591gpt and the average interlab precision is 20.4%. For values higher than 1.1gpt the mean absolute difference is 0.237gpt, the relative error is 0.145 for data averaging 2.04gpt and the average interlab precision is 29.1%.

The copper data less than approximately 0.85% Cu are reproduced well by the two labs (Figure 13)—the average precision for the two labs for these assays averaging 0.615% Cu is 12.1%. The mean absolute difference by the two labs is 0.030% Cu.

Paired data above approximately 0.85% Cu are biased (Figure 14a). A linear model fitted to the data has the equation

$$\text{AcmeCu} = 0.837\text{IPLCu} + 0.104$$

Applying this equation to a range of IPL values gives the average biases listed in Table 6. The Acme-IPL bias in high copper values may relate to the fact that Acme used an ICP finishing procedure for the assays they reported.

TABLE 6: AVERAGE BIASES FOR VARIOUS IPL Cu GRADES RELATIVE TO CORRESPONDING ACME GRADES FOR SAME PULPS

Calculated Acme grade		Assumed IPL grade		Difference (absolute)	Difference* (% of IPL)
0.941	%	1.0	%	0.059	-5.9%
1.276		1.4		0.124	-8.9%
1.611		1.8		0.189	-10.5%
1.945		2.2		0.255	-11.4%
2.615		3.0		0.385	-12.8%

*Differences are biases relative to IPL

The disparity between Acme and IPL Cu results for hole 03-248 was investigated by submission of the same pulps to Chemex for assay. Chemex results are compared with IPL in Figure 14b where a bias is evident, albeit a lesser bias than demonstrated in Figure 14a and Table 6. For example, for IPL values of 1.0 and 1.4% Cu the Chemex biases are -5.9% and -8.9% respectively. A disparity of about 5% is widely accepted in the mining industry so IPL values above 1.0% Cu must be considered—this bias in high Cu values is not consistent with independent checks on Cu values by Chemex as part of the general monitoring program (see next section) for which Chemex and IPL Cu values are in excellent agreement. Furthermore, the disparity between Acme and IPL Cu values (IPL is high, on average) is in contrast to an earlier concern that IPL round robin Cu values were low relative to analyses by three other labs that included Acme (Assayers, Chemex and Acme). I conclude that the bias of high IPL Cu analyses (>1.0% Cu) for hole 03-248 data is a local random aberration that is not evident in the more extensive data base.

Chemex Monitor Analyses—data file check3.eas

Check analyses of pulps received from Chemex are compared with corresponding original analyses by IPL. A plot for Au data (AA finish) is shown in Figure 15. In general, the comparison is acceptable. With one outlier removed there is no evidence of bias and the scatter of paired data about the $y = x$ line is reasonable—the average interlab analytical error is $s_a = 0.0749$ giving a mean absolute difference of 0.06 gpt and an average interlab precision of 33.6%. Samples >1gpt were also analyzed by fire assay with gravimetric finish—for the 11 samples involved, the two labs compare favourably as shown in Figure 16a. Similarly, the IPL gravimetric analyses compare favourably with the IPL AA-finish analyses as illustrated in Figure 16b.

For Cu duplicates (Figure 17) the two labs (IPL and Chemex) are in even better agreement than for gold. The average 2-lab error (standard deviation) is $s_a = 0.047\%$, to give a mean absolute difference of 0.038%, an average relative error of 0.090 and an average 2-lab precision of 17.9%. These data are discussed in greater detail below in a section entitled “Regular Chemex Checks of IPL Pulp Analyses”.

Conclusion

These tests indicated that the original, poor results by IPL on the RCDC’ in-house standards are limited to the original round robin analyses of the in-house standards and are not representative of the subsequent (2003) assay data. A second set of analyses by IPL are consistent with those of the 3 other round robin labs; monitoring data shows IPL to be consistent, on average, with Chemex check results.

Precision of IPL Data

Two independent sets of data allow quantification of the precision of IPL analyses—(1) pulps first analyzed by IPL, checked by Chemex and returned to IPL as renumbered pulps, and (2) duplicate analyses of in-house standards.

IPL Rechecks of Chemex Checks on IPL Pulps—data file: checks3.eas

A total of 250 pulps analyzed by IPL (approx. one in every 20 samples) were sent to Chemex for check analyses during the 2003 drill program. The pulps were renumbered and returned to IPL to be rechecked as ‘blind’ pulps thus providing a sound basis with which to estimate average, IPL analytical precision throughout the analytical program of October and November 2003. The paired, non-zero IPL Au analyses are shown on Figure 18a. Data were divided into two subgroups—low values have a relatively tight scatter about $y = x$; high values have a relatively wide scatter about $y = x$. For the low-grade group (Figure 18b) no bias is evident—the $y = x$ line and the RMA line are superimposed. Omitting one outlier, the mean absolute difference is 0.03gpt, the average relative error is 0.183gpt and the average 2-lab precision is 36%. The high values (Figure 18c) have a mean absolute difference of 0.214gpt, a relative error of 0.190 and an average precision of 38%

These results, in general, indicate that IPL Au data are unbiased and have a moderate level of random analytical error

IPL duplicate Cu analyses for 240 pulps (non-zero) are shown in Figure 19a. The low values (<0.6%Cu), plotted on Figure 19b, are in good agreement. Values below 0.6% Cu have a mean absolute difference of 0.02%, an average relative error of 0.096 and an average precision of 19%. The high Cu values, shown on Figure 19c, are also in good agreement with a mean absolute difference of 0.066% Cu, an average relative error of 0.062 and an average precision of 12.5%.

The great majority of Au analyses by IPL and Chemex are fire assays with an atomic absorption finish. The relatively small number of monitoring samples that assayed above 1.0gpt was rerun as fire assays with a gravimetric finish by both IPL (twice—each time they analyzed the same pulp) and Chemex. For Chemex (Figure 20a) and the original IPL (Figure 20b) gravimetric assays there is remarkably close agreement with corresponding AA finish results. For the second set of IPL results (Figure 20c) there is a slight underestimation of IPL gravimetric finish relative to AA finish—on average the underestimation is 0.225 gpt for values averaging 2.28gpt. Because results by gravimetric finish are accepted as the final value in the data base used for resource estimation the use of gravimetric-finish values is seen as a conservative decision.

Blanks analyzed routinely by IPL with all analytical batches reported low values at or near the detection limit, indicating an absence of contamination of material during analysis. The maximum gold value in a blank is 0.03 gpt with an average value of 0.013 gpt. The maximum copper value in a blank is 0.02% with an average value of 0.013%.

Replicate Analyses of In-House Standards.

IPL analyzed the in-house standards in replicate on two separate occasions because the first set of analyses indicated that a bias existed relative to three other labs involved in the round robin analyses of the standards. Precisions, estimated from both sets of replicate analyses, are summarized in Table 5. In brief, the results indicate that precision for Au in standards is circa 10% whereas precision for Cu is circa 3%. These results are significantly better precision estimates than are those based on blind duplicates, as discussed in the previous section.

TABLE 5: PRECISIONS ESTIMATED FROM IPL REPLICATE ANALYSES OF IN-HOUSE STANDARDS.

Std	Metal*	IPL (Original)			IPL (Check)		
		Mean	Stdev	Pr(%)	Mean	Stdev	Pr(%)
BCM-L	Au	.285	.001	0.70%	.295	.012	8.1%
	Cu	.322	.005	3.11%	.351	.006	3.4%
BCM-M	Au	.524	.027	10.3%	.541	.030	11.1%
	Cu	.478	.006	2.5%	.561	.007	2.5%
BCM-H	Au	.675	.054	16.0%	.703	.030	8.5%
	Cu	.873	.011	2.52%	.907	.013	2.9%

*N = 20 for each average and standard deviation. Au in gpt, Cu in %.

Monitoring IPL Analyses

Two sets of analytical data serve as a monitor of IPL analytical data by independent labs, (1) regular monitoring of IPL pulp analyses by Chemex, and (2) selected reanalyses (ddh 248) of IPL pulps by Acme.

Regular Chemex Checks of IPL Pulp Analyses—datafile: checks3.eas

IPL pulps checked by Chemex, were returned as renumbered pulps to IPL who produced a second analysis. Each of these two analyses by IPL can be compared with the Chemex check results. A comparison of original IPL Au analyses with Chemex values has been discussed briefly above. The recheck Au data versus Chemex are considered best in two subgroups, low and high values, separated at approximately 0.54gpt (Figure 21). Low values by the two labs are in exceptionally good agreement with a mean absolute difference of 0.020gpt, a relative error of 0.099 and average precision of 20%. The linear model for the higher data shows an average bias of approximately 10% (for grades averaging about 1.55gpt Au) with IPL analyzing high relative to Chemex. The high values have a relative error of 0.074 and an average precision of 15%. Figure 22 shows the second IPL AU analyses versus the Chemex monitor values.

Recheck Cu analyses by IPL are shown versus check analyses by Chemex on Figure 23. The recheck analyses have a remarkably good comparison with Chemex data, indicating no measurable bias and having a high level of reproducibility (i.e., an average precision for the two labs of 8% for an average grade of 0.52%Cu). The original IPL data versus Chemex, similarly shows no evidence of bias but the average precision of the two labs is higher at 17.7%.

It is of interest to note that for both Cu and Au, the routine analyses by IPL show substantially more random scatter than do the recheck (nonroutine/special study) analyses. This indicates that routine analyses are less precise than are non-routine

analyses involving analyses of groups of pulps submitted or resubmitted for special studies. Note that the original comparison of Chemex Au vs. IPL Au indicated no bias whereas the comparison of Chemex Au vs. the second IPL analysis indicated IPL to be about 10 percent higher for values greater than about 0.7gpt. Considering these results in the light of round robin analyses of standards and other check analyses by Acme, it seems that IPL has a moderate random variability for Au from batch to batch.

Special Acme Checks of IPL Pulp Analyses for ddh 248—datafile: 03-248.eas

Repeat analyses of pulps for ddh 248 with reported grades greater than 0.3gpt Au or 0.3% Cu were sent to another independent lab (Acme) as a check on IPL. These data are discussed in detail in an earlier section. In general, they show that the two labs agree acceptable for gold analyses and for Cu analyses less than 0.85% Cu. However, for higher Cu grades Acme measures low relative to IPL. The pulps were sent to Chemex as an independent check and Chemex results for high Cu values, shown plotted in Figure 14b, are discussed in an earlier section. In brief, the Chemex-IPL comparison is better than the Acme-IPL comparison but there remains about a 10 percent bias in Cu data above 1.5% Cu, with IPL high relative to Chemex. The regular monitoring information (see Figure 23) indicates that this bias is not present throughout the 2003 data.

Duplicate Half Cores—data file: half-core_rej.eas

Total sampling variability can be quantified by comparing analyses for duplicate samples, in this case, duplicate half cores. A plot of 60 such data for Cu, taken as part of the 2003 quality control program, is given in Figure 24. These data show extremely good agreement on average, with a total average error of $s_t = 0.1187$ (giving a precision of 28.2%). The mean absolute difference of 0.095%Cu means that, on average, any two duplicate core values will differ, on average, by about 0.1%Cu. Average relative error is 0.141 for an average grade of 0.843% Cu to give an average half-core to half-core precision of 22.5%.

A plot of the second half-core Cu value against a second coarse reject sample grade from the same half core is shown in Figure 25. These results are somewhat surprising because they show less variability than analytical error alone, a situation that can arise because the analytical error was determined for a different data set i.e., the data are not consistent. The subsampling plus analytical error based on Figure 25 is $s_{ss+a} = 0.028$. Consequently, the sampling error is estimated to be

$$s_s = (s_t^2 - s_{ss+a}^2)^{1/2} = (0.1187^2 - 0.028^2)^{1/2} = 0.12\%Cu$$

which is nearly 5 times the combined sampling plus analytical error.

Half-core, paired values that are lower than about 0.38%Cu have much less dispersion than do higher values. The lower group of 10 values has an average precision of about 18.2% whereas, the higher group of 50 values has an average precision of about 27.1%.

Duplicate half-core data for Au are plotted in Figure 26. The RMA linear model is almost coincident with the $y = x$ line indicating no evidence of bias. The data have a relatively wide dispersion about the $y = x$ line: the total error is $s_t = 0.245$ gpt giving a mean absolute difference of 0.2gpt, a relative error of 0.345 and a precision of about 69%. A comparable plot for duplicate rejects is shown in Figure 27 where the combined subsampling plus analytical error is 0.092%Cu to give a mean absolute difference of 0.073gpt, a relative error of 0.136 and a precision of 27.2%. In this case the sampling error for Au is

$$s_s = (s_t^2 - s_{ss+a}^2)^{1/2} = (0.245^2 - 0.092^2)^{1/2} = 0.227$$

which is approximately two and one-half times the subsampling plus analytical error.

This independent sampling of the 2003 core indicates that the 2003 analytical data are unbiased. Moreover, by far the largest source of variability in the analytical data arises because of inherent geological variability over short distances i.e., the half-core sampling error is very much larger than the combined subsampling plus analytical error—about 5 times larger in the case of copper and about two and one-half times larger in the case of gold. All of these sources of variability are random in nature and their impact will be compensatory during resource/reserve estimation because many samples will be used in the estimation of each block considered.

CONCLUSIONS

The writer is in agreement with Smee that the accuracy and precision of the 1994 and 1995 Red Chris assay data for Cu and Au, obtained for American Bullion Minerals Ltd., meets quality levels that are generally acceptable throughout the mining industry.

An exhaustive quality control program incorporated into the 2003 Red Chris drill program by RCDC demonstrates that the Cu and Au assay data obtained in 2003 is of acceptable accuracy and precision. Moreover, the inherent sampling variability for both metals is demonstrated to be very much larger than the combined variability arising from both subsampling and analytical protocols. These random errors will be minimized during resource/reserve estimation because they are compensating in nature in cases such as this where many samples are used in the estimation of a block.

All data sets examined indicate a strong direct relation between gold and copper—Au/Cu ratios are commonly in the range 0.8 to 1.0.

REFERENCES

Sinclair, A. J., and G. H. Blackwell, 2002, Applied mineral inventory estimation; Cambridge University Press, Cambridge, U. K., 381 p.

Smee, B. W., 1995, Report on analytical quality, Red Chris project; report prepared for American Bullion Minerals Ltd., Vancouver, January, 21 p. plus two appendices that include duplicate pulp analyses.

Smee, B. W., 1996, Report on analytical quality for the 1995 drill results, Red Chris project; report prepared for American Bullion Minerals Ltd., Vancouver, February, 25 p. plus appendices including duplicate pulp analyses and analyses of in-house standards.

FIGURES

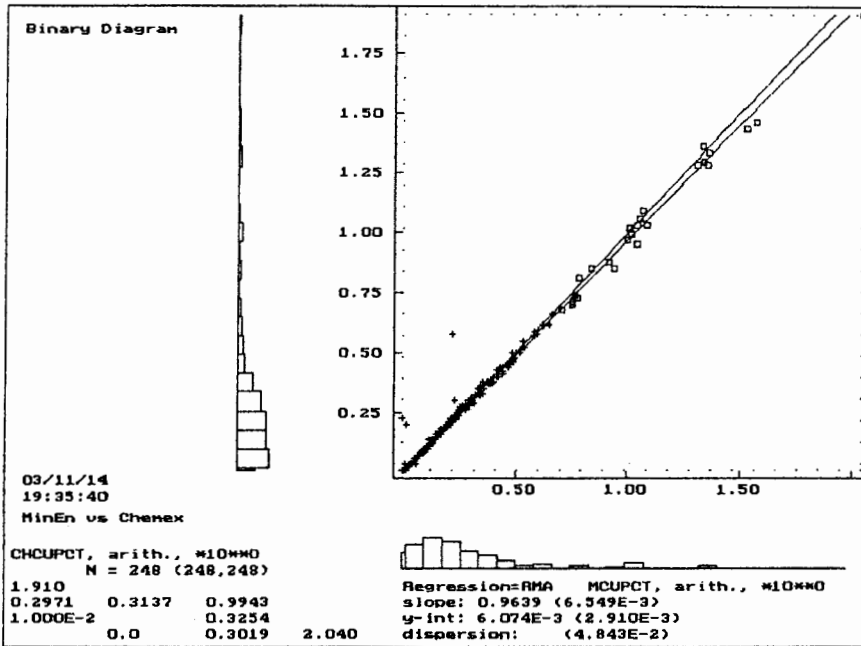


Figure 1: Scatter diagram of check Cu assays by Chemex (CHCUPCT) versus Min-En Cu assays (MCUPCT) on the same pulps in 1994 (Data from Smee, 1995). Upper line is $y = x$; lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1. Plus signs and open squares represent two arbitrary subgroups considered separately.

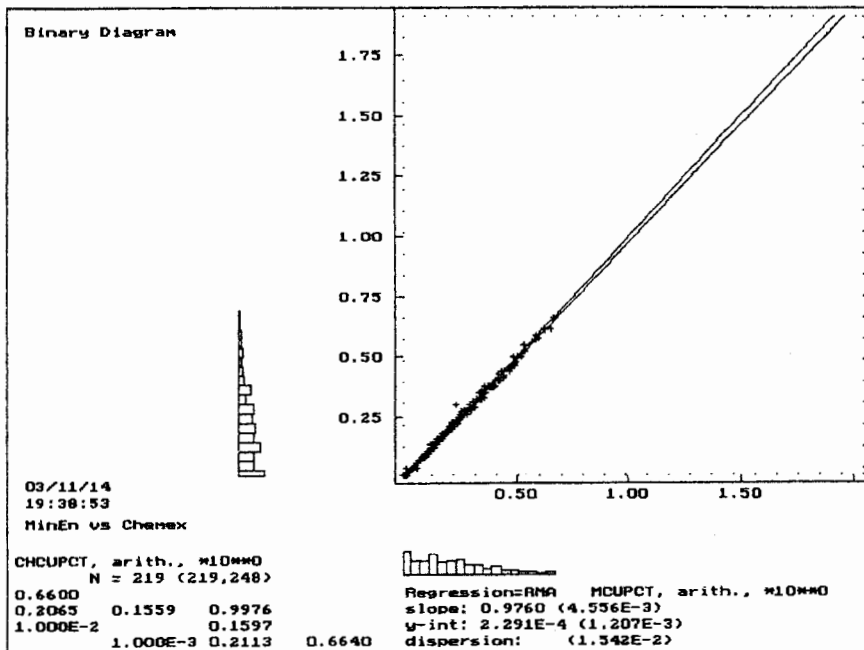


Figure 2: Scatter diagram of check Cu assays below 0.67% Cu by Chemex (CHCUPCT) versus corresponding Min-En Cu assays (MCUPCT) on the same pulps in 1994 (Data from Smee, 1995). Upper line is $y = x$; lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

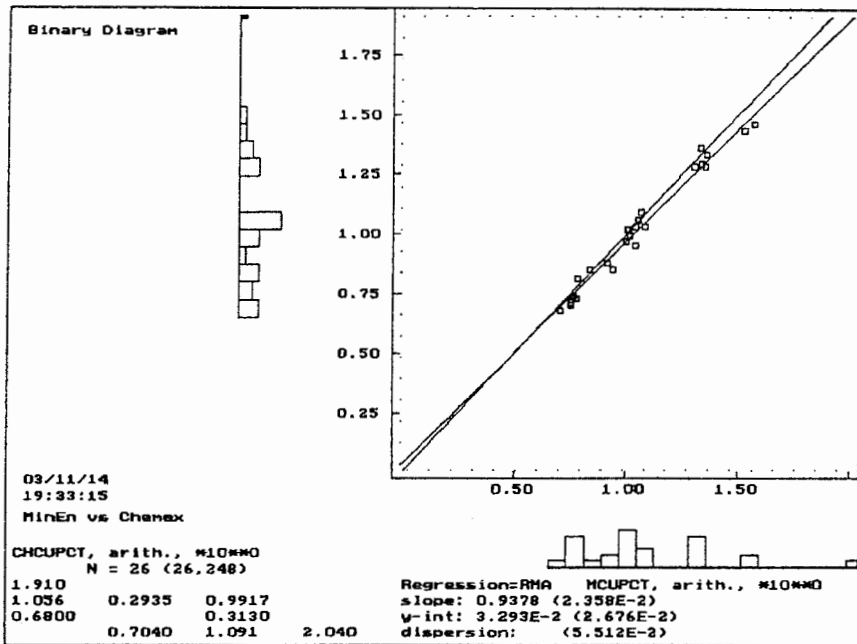


Figure 3: Scatter diagram of check Cu assays greater than 0.67%Cu by Chemex (CHCUPCT) versus corresponding Min-En Cu assays (MCUPCT) on the same pulps in 1994 (Data from Smee, 1995). More steeply sloping line is $y = x$; other line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

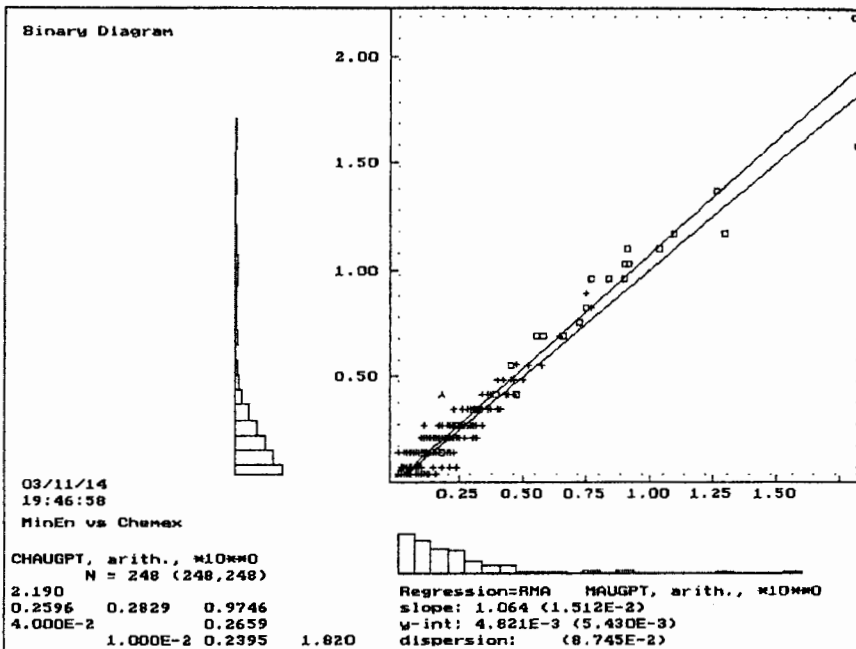


Figure 4: Scatter diagram of check Au assays by Chemex (CHAUGPT) versus Min-En Au assays (MAUGPT) on the same pulps in 1994 (Data from Smee, 1995). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

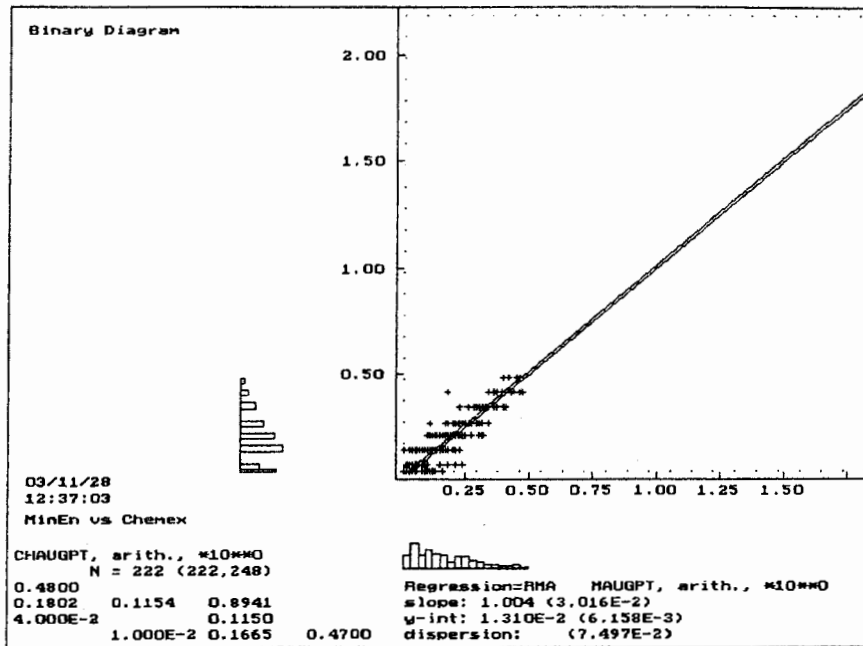


Figure 5: Scatter diagram of check Au assays less than 0.48 gpt by Chemex (CHAUGPT) versus corresponding Min-En Cu assays (MAUGPT) on the same pulps in 1994 (Data from Smee, 1995). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

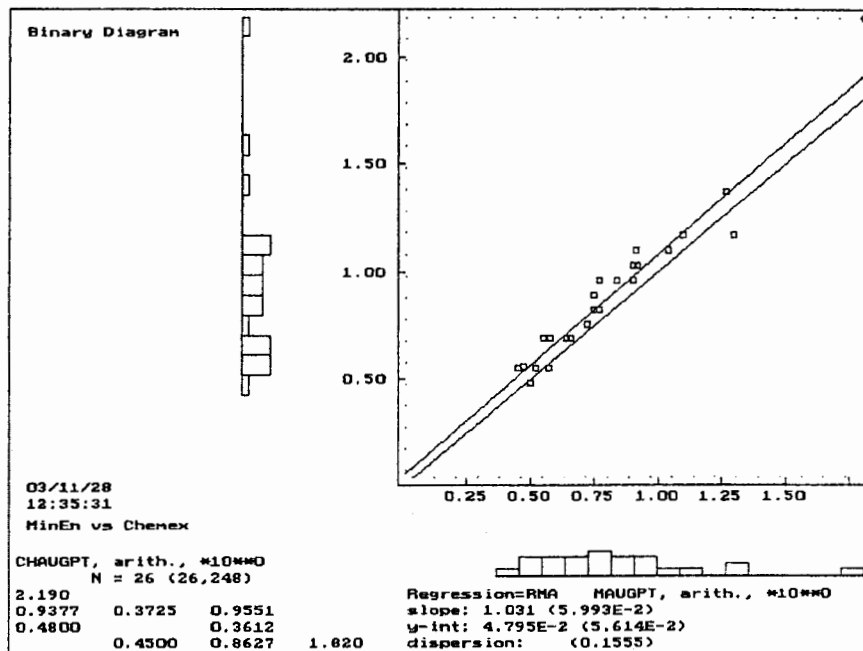


Figure 6: Scatter diagram of check Au assays greater than 0.48gpt by Chemex (CHAUGPT) versus corresponding Min-En Cu assays (MAUGPT) on the same pulps in 1994 (Data from Smee, 1995). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

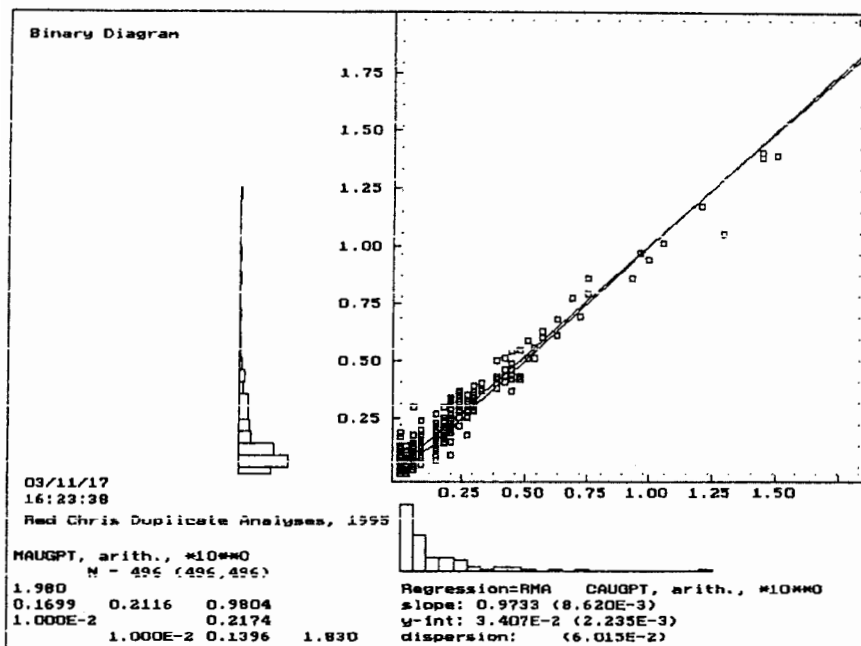


Figure 7: Scatter diagram of check Au assays by Chemex (CAUGPT) versus Min-En Cu assays (MAUGPT) on the same pulps in 1995 (Data from Smee, 1996). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

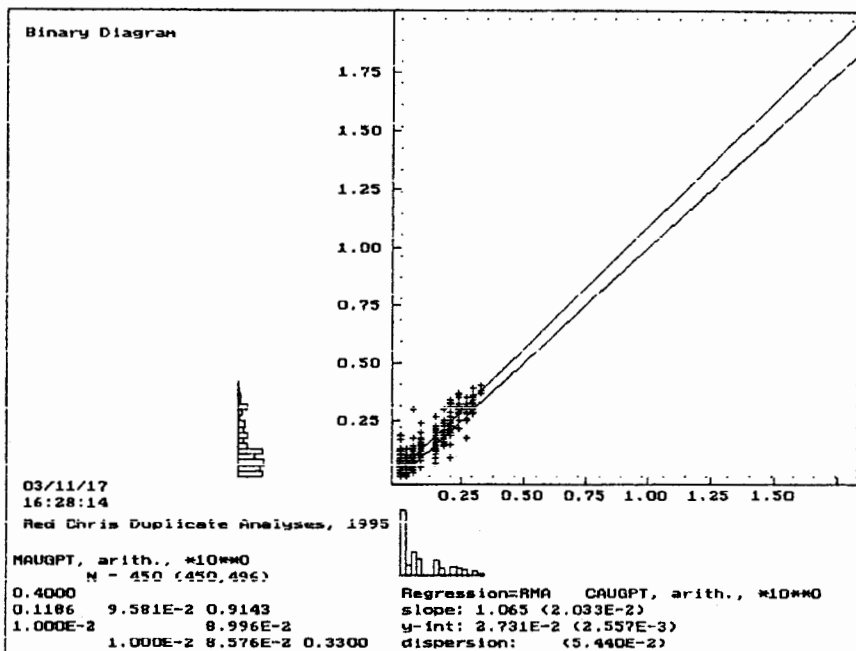


Figure 8: Scatter diagram of check Au assays less than 0.4 gpt by Chemex (CAUGPT) versus Min-En Cu assays (MAUGPT) on the same pulps in 1995 (Data from Smee, 1996). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

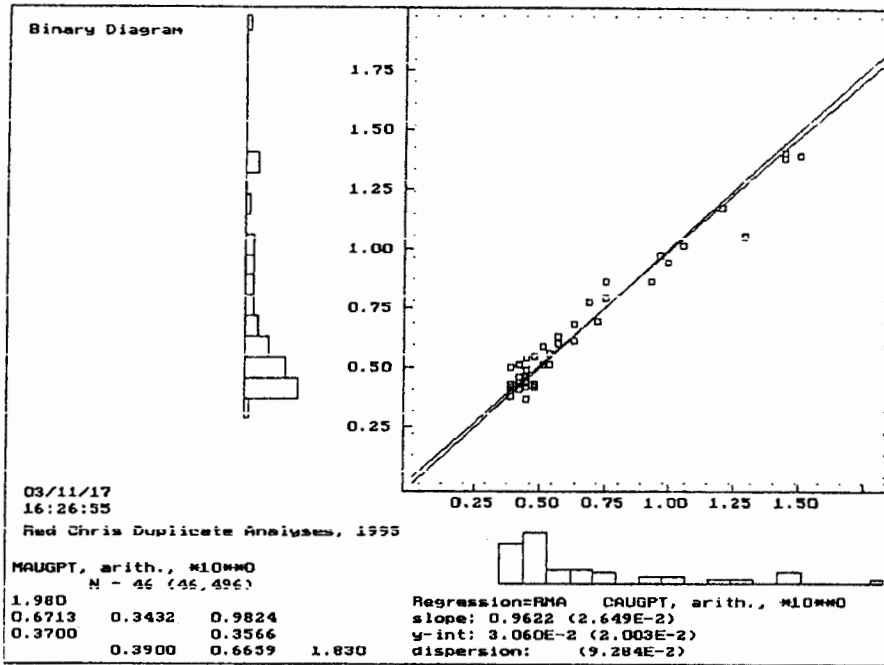


Figure 9: Scatter diagram of check Au assays greater than 0.4 gpt by Chemex (CAUGPT) versus Min-En Cu assays (MAUGPT) on the same pulps in 1995 (Data from Smece, 1996). More steeply sloping line is $y = x$; more gently sloping line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

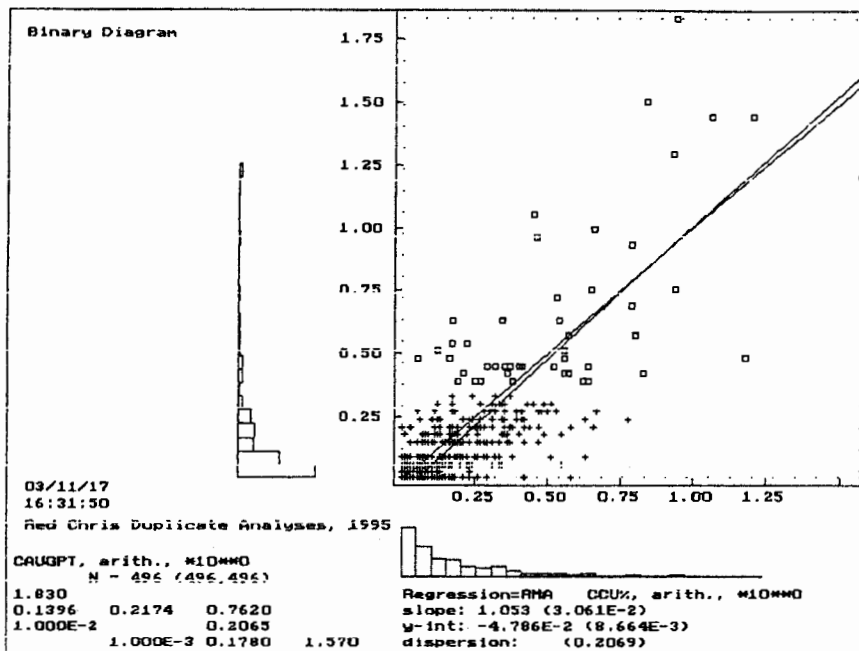


Figure 10: Scatter diagram of Cu (%) versus Au (gpt) for 1995 Chemex check analyses. Data after Smece, 1996) indicating a relatively strong correlation between Cu and Au with an average Au/Cu ratio of about 0.95.

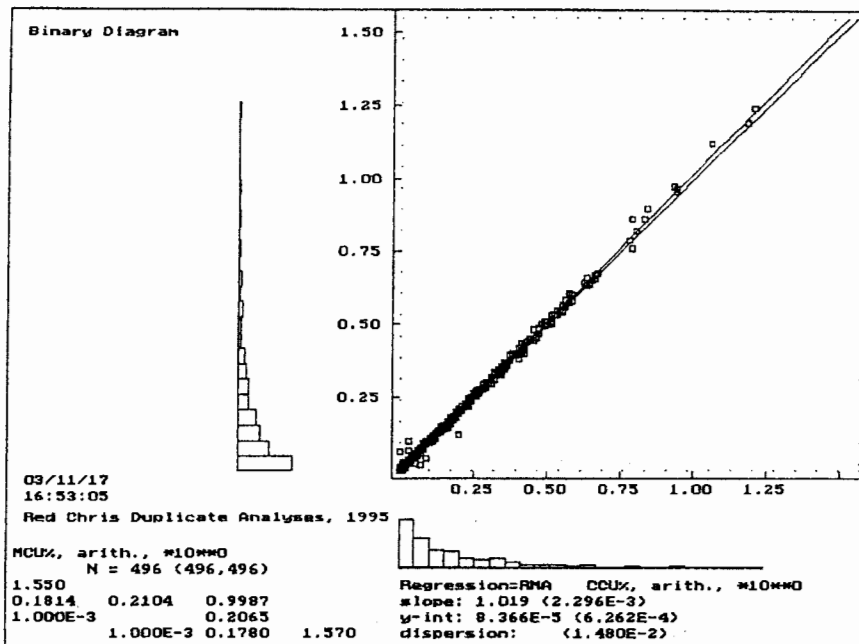


Figure 11: Scatter diagram of check Cu assays by Chemex (CCU%) versus Min-En Cu assays (MCU%) on the same pulps in 1995 (Data from Smee, 1996). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

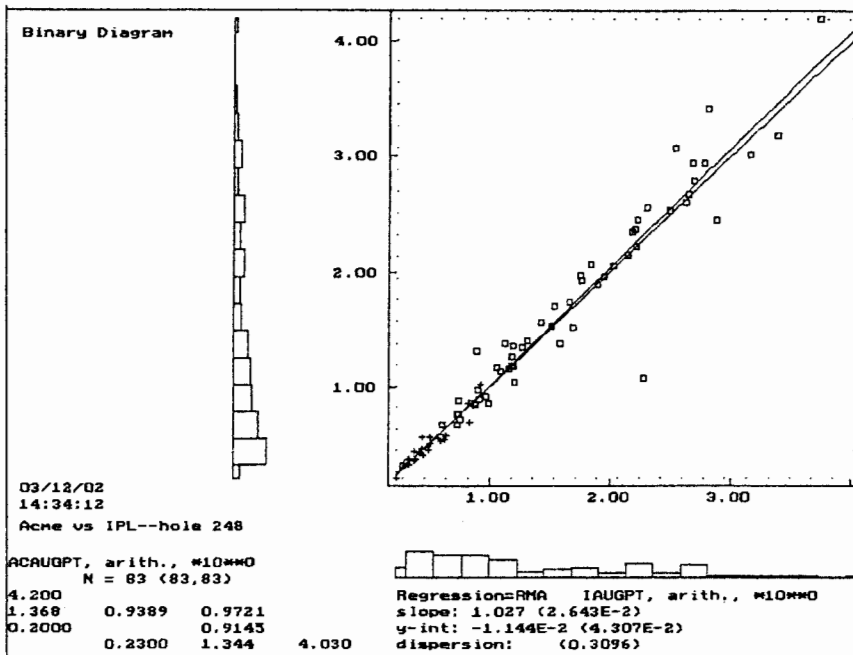


Figure 12: Scatter diagram of check Au assays by Acme (ACAUGPT) versus IPL Au assays (IAUGPT) on the same pulps in 2003 (Data from file:AcvI.eas). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

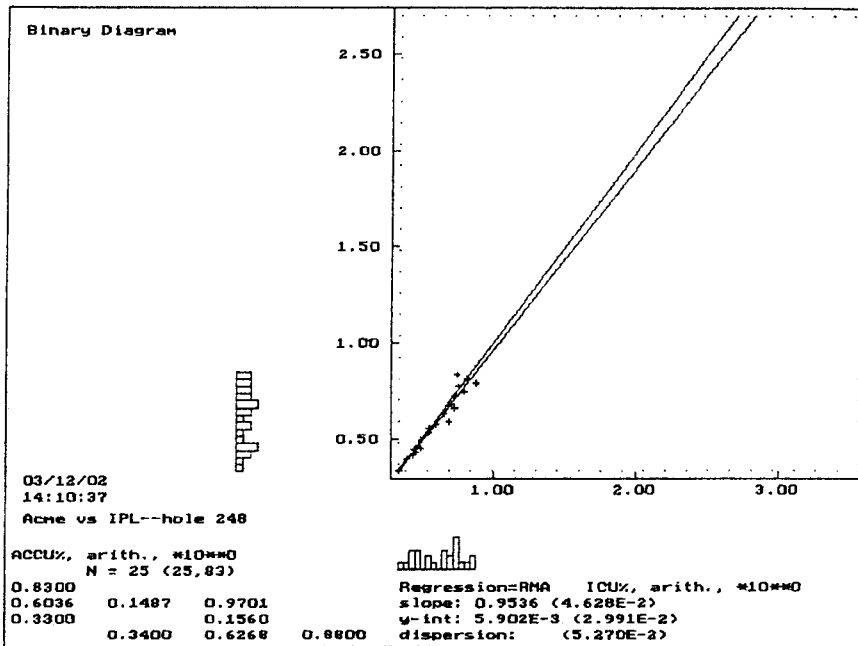


Figure 13: Scatter diagram of check Cu assays less than 0.88% by Acme (ACCU%) versus IPL Cu assays (ICU%) on the same pulps in 2003 (Data from file:AcvI.eas). Upper line is $y = x$; lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

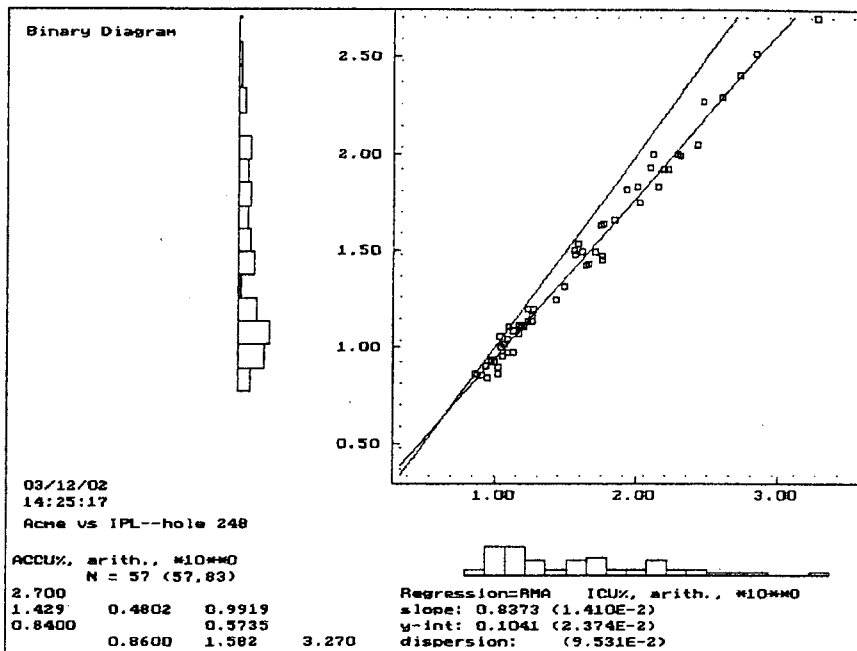


Figure 14a: Scatter diagram of check Cu assays greater than about 0.84% Cu by Acme (ACCU%) versus IPL Cu assays (ICU%) on the same pulps in 2003 (Data from file:AcvI.eas). Upper line is $y = x$; lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

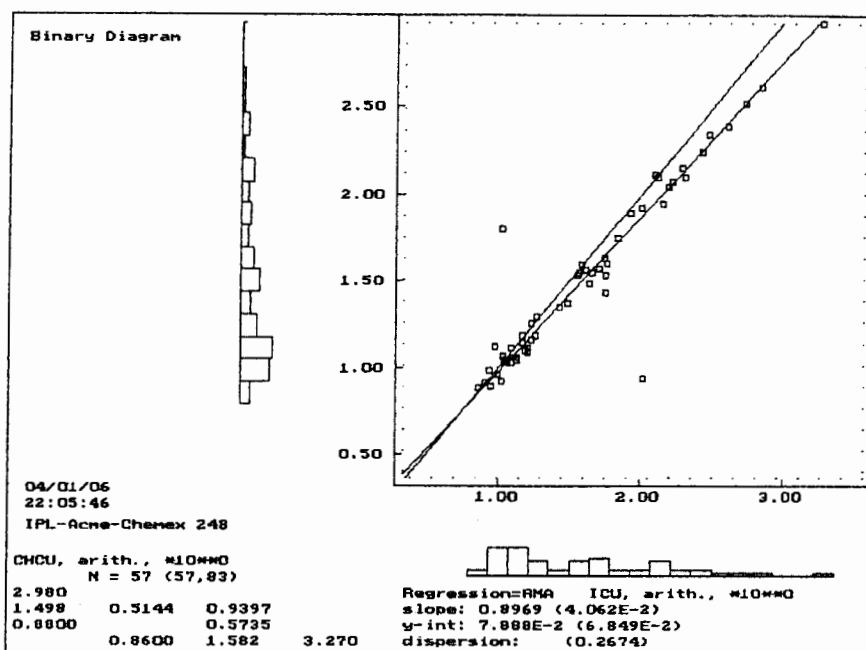


Figure 14b: Scatter diagram of check Cu assays (same samples as in Figure 14a) by Chemex (CHCU) versus IPL Cu assays (ICU) on the same pulps. (Data file:03-248.eas). Upper line is $y = x$; lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

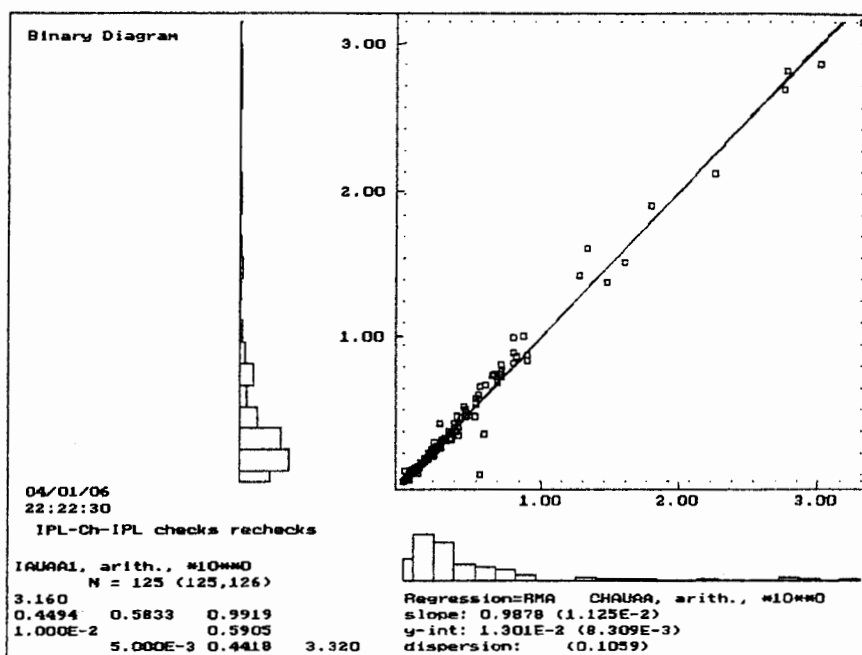


Figure 15: Scatter diagram of original Au assays by IPL (IAUAA1) versus Chemex check Au assays (CAUAA) on the same pulps in 2003 (Data from file: checks2.eas). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

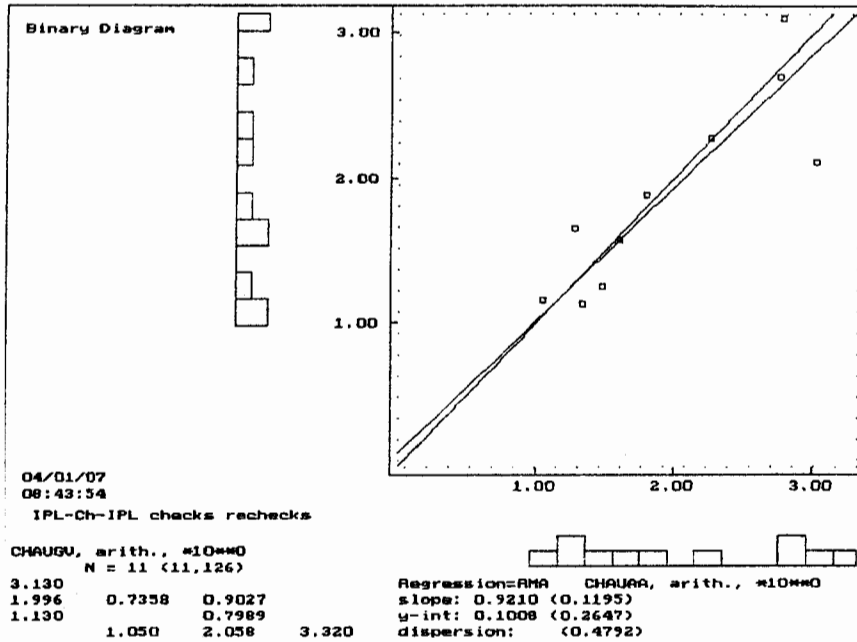


Figure 16a: Scatter diagram of check gravimetric Au assays by Chemex (CHAUGV) versus Chemex AA-finish Au assays (CHAUAA) on the same pulps in 2003 (Data from file: checks3.eas). Steeper-dipping line is $y = x$; other line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

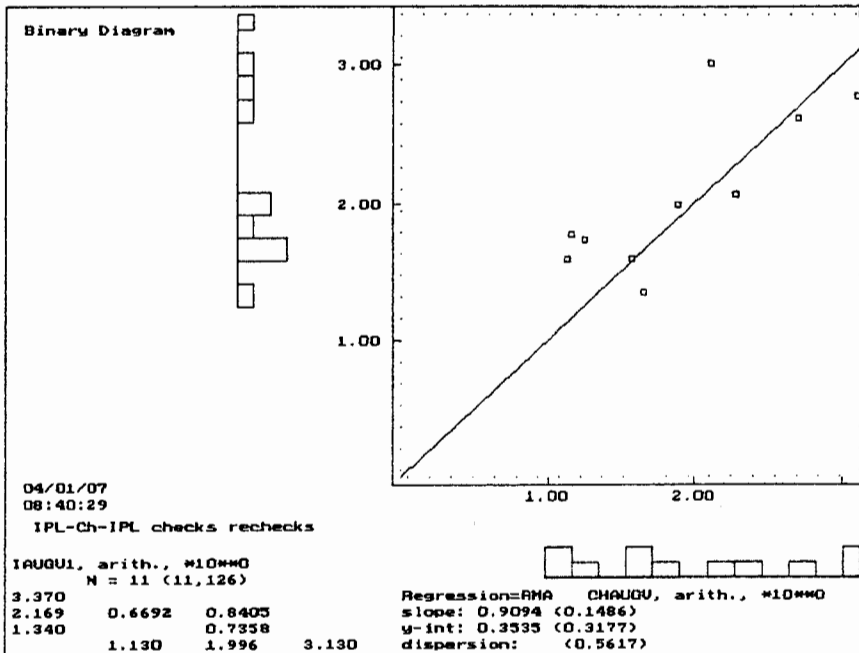


Figure 16b: Scatter diagram of gravimetric Au assays by IPL (IAUGV1) versus check gravimetric Au assays by Chemex (CHAUGV) on the same pulps in 2003 (Data from file: checks3.eas). Line is $y = x$. Various statistics are

defined in Appendix 1.

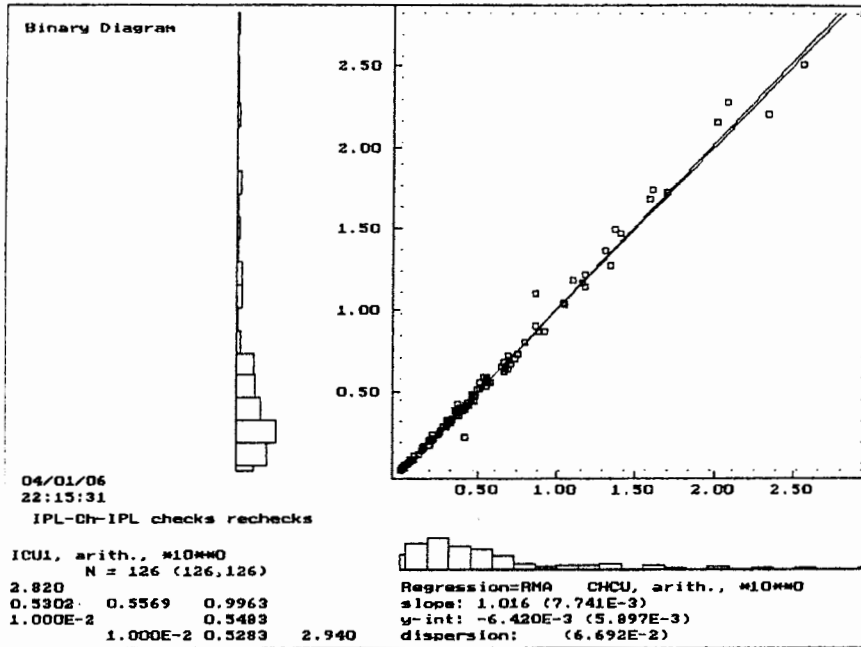


Figure 17: Scatter diagram of check Cu assays by Chemex (CHCU) versus initial IPL Cu assays (ICU1) on the same pulps in 2003 (Data from file: checks3.eas). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

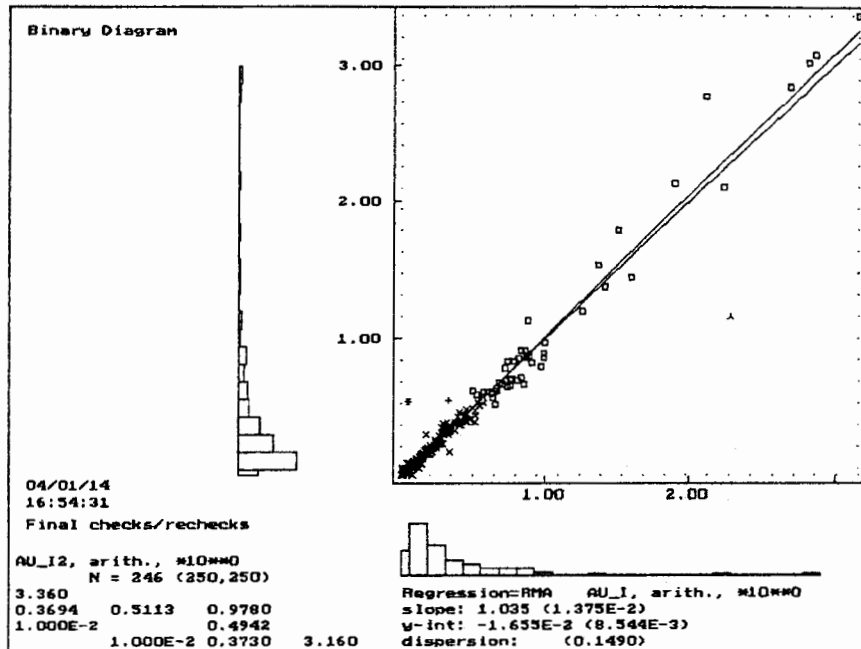


Figure 18a: Scatter diagram of Au assays by IPL (AU_I) versus IPL blind duplicate Au assays (AU_I2) on the same pulps in 2003 (Data from file: checks3.eas). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted

to the data. Various statistics are defined in Appendix 1.

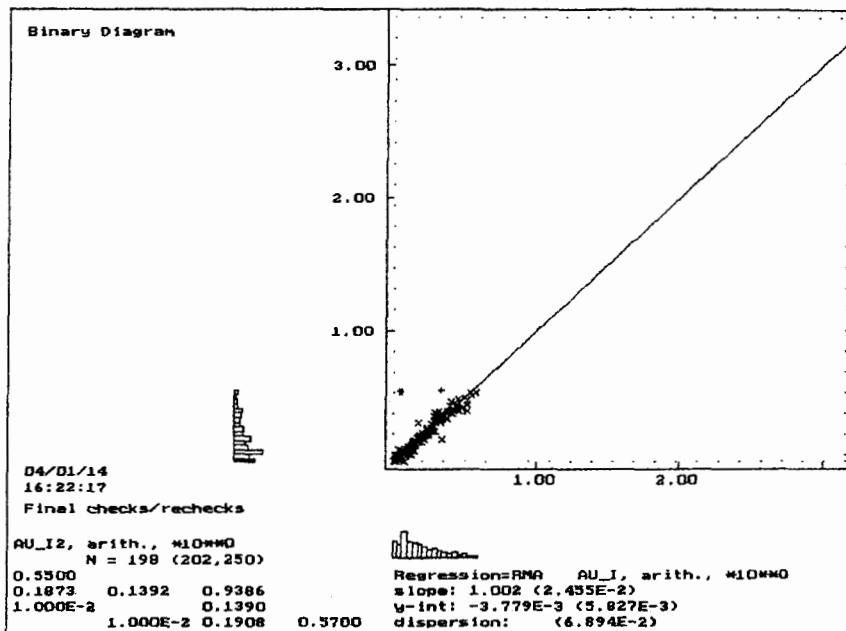


Figure 18b: Scatter diagram of Au assays by IPL (AU_I) versus IPL blind duplicate Au assays (AU_I2) on the same pulps in 2003 for duplicate analyses less than 0.55gpt. (Data from file: I-Ch-I.eas). The RMA line is essentially coincident with $y = x$. Various statistics are defined in Appendix 1.

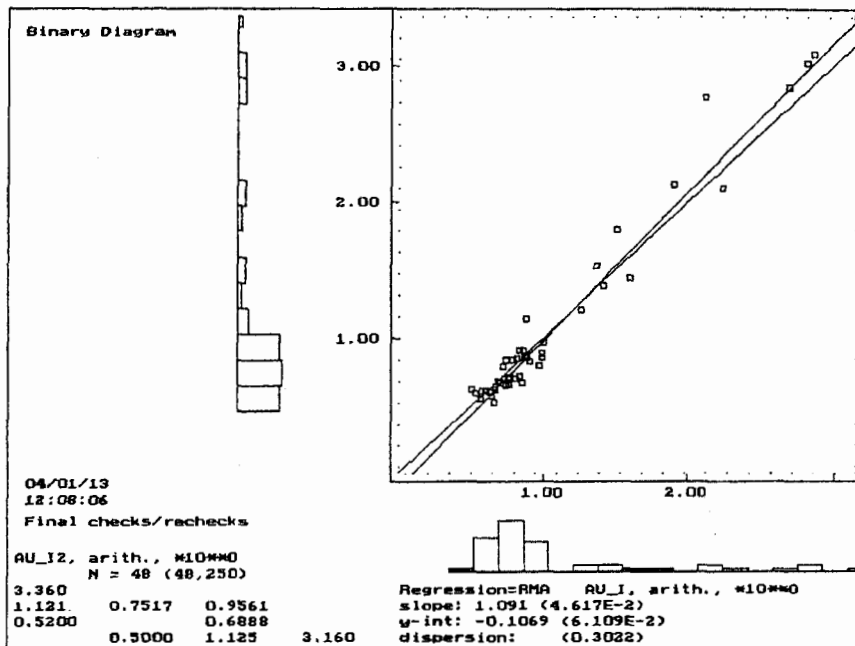


Figure 18c: Scatter diagram of Au assays by IPL (AU_I) versus IPL blind duplicate Au assays (AU_I2) on the same pulps in 2003 for duplicate analyses greater than 0.52gpt. (Data from file: I-Ch-I.eas). Gently-sloping line is $y = x$; steeper line is RMA line fitted to the data. Various statistics are defined in Appendix 1.

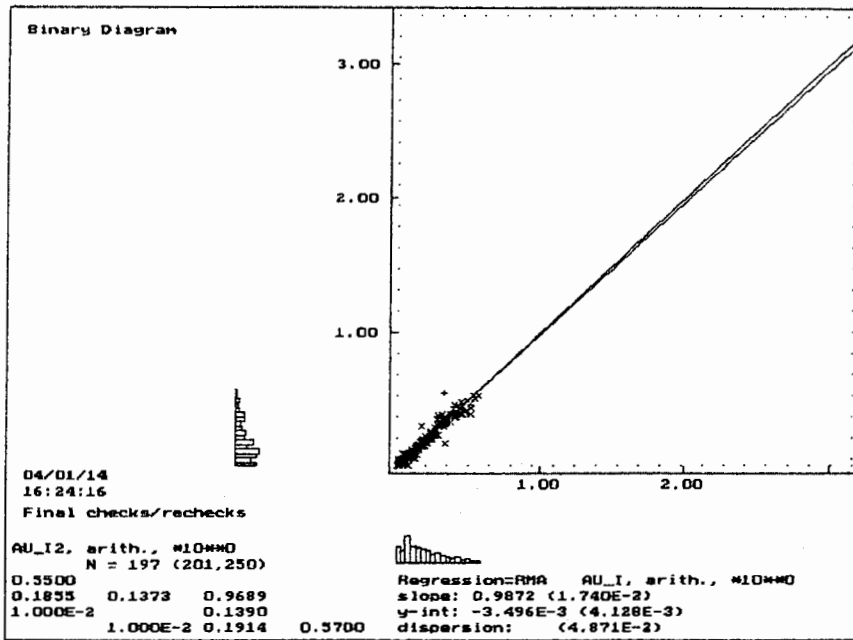


Figure 18d: Scatter diagram of Au assays by IPL (AU_I) versus IPL blind duplicate Au assays (AU_I2) on the same pulps in 2003 for duplicate analyses less than 0.55gpt with the removal of one outlier. Compare results with Figure 18b to see the effect of removing one outlier. (Data from file: I-Ch-I.eas). The RMA line is nearly coincident with $y = x$. Various statistics are defined in Appendix 1.

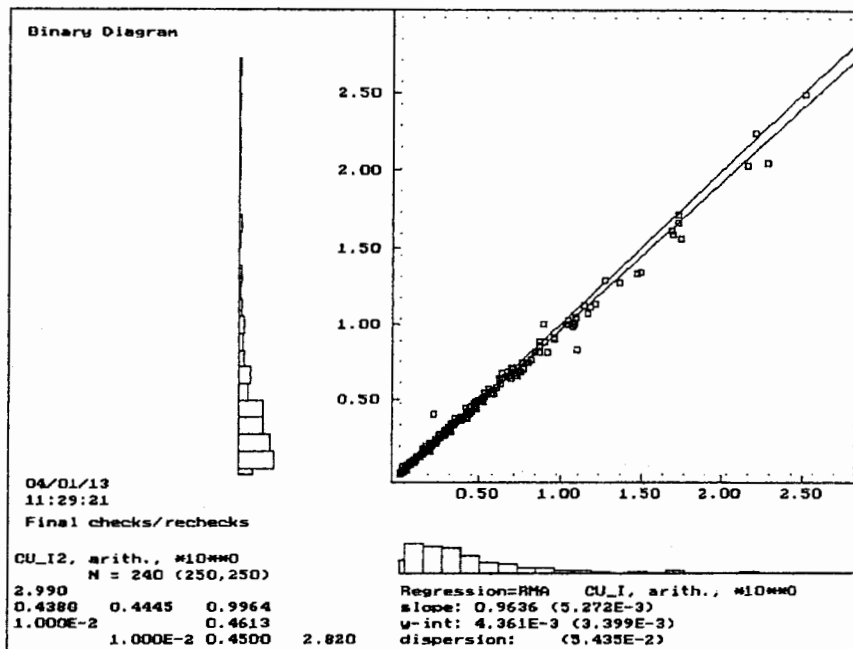


Figure 19a: Scatter diagram of original Cu assays by IPL (CU_I) versus second blind Cuy assay by IPL (CU_I2) on the same pulps in 2003 (Data from file: checks3.eas). Upper line is $y = x$; lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

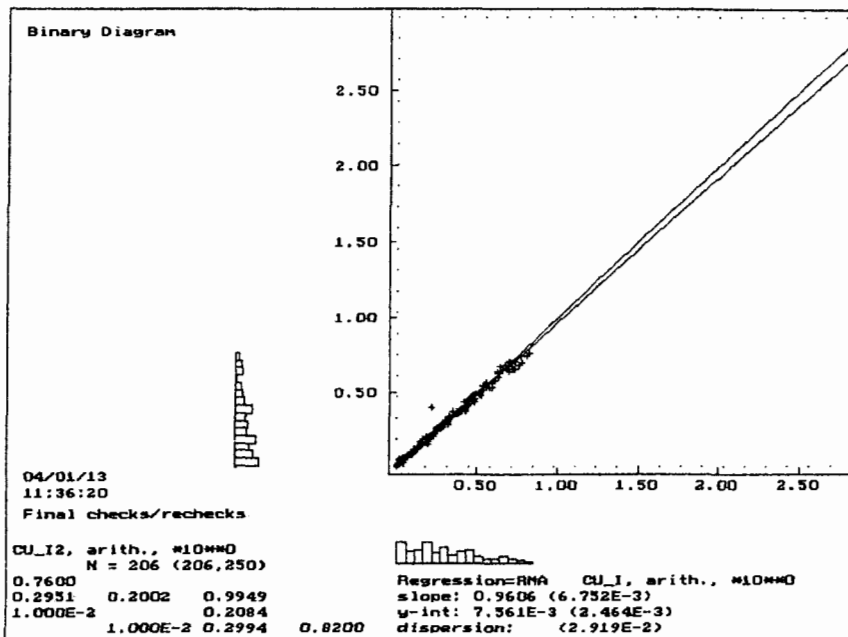


Figure 19b: Scatter diagram of original low Cu assays (<0.82%) by IPL (CU_I) versus second blind Cu assay by IPL (CU_I2) on the same pulps in 2003 (Data from file: checks3.eas). Upper line is $y = x$; lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

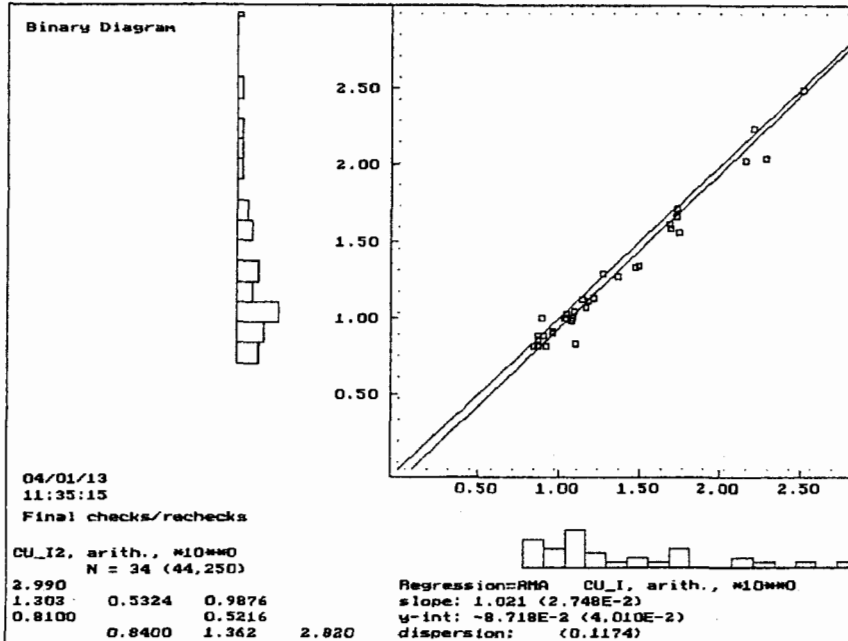


Figure 19c: Scatter diagram of original high Cu assays (>0.82%Cu) by IPL (CU_I) versus second blind Cu assay by IPL (CU_I2) on the same pulps in 2003 (Data from file: checks3.eas). Lower line is $y = x$; upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

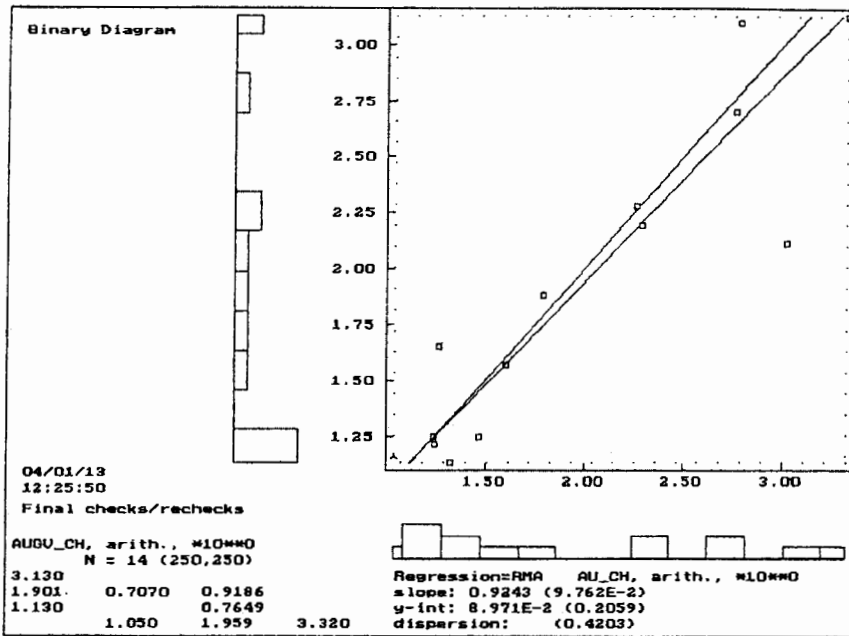


Figure 20a: Scatter diagram of Chemex check, gravimetric gold analyses (AUGV_CH) versus Chemex standard AA-finish gold analyses (AU_CH). Data from file: checks3.eas. Upper line is $y = x$; lower line is reduced major axis (RMA) fitted to the data. Various statistics are defined in Appendix 1.

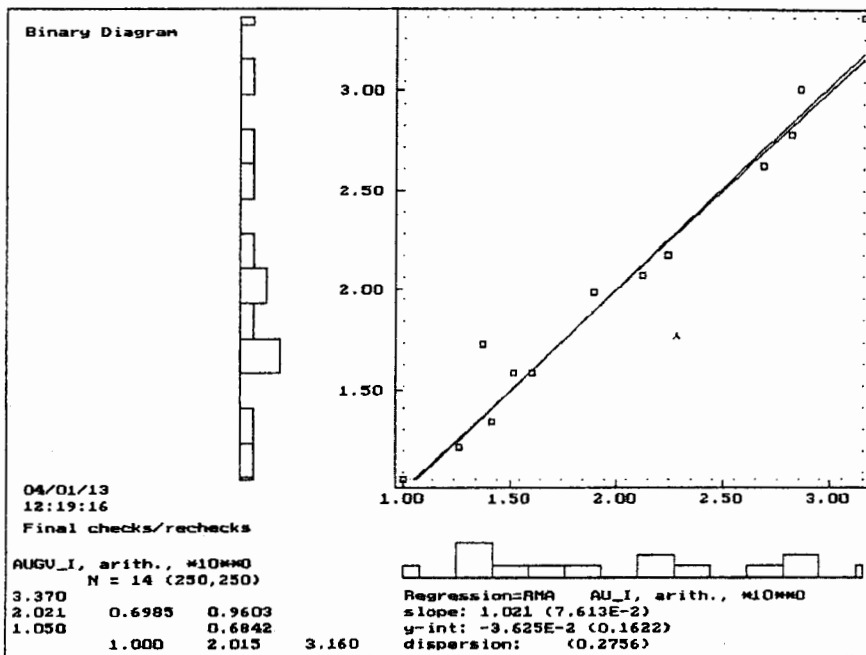


Figure 20b: Scatter diagram of initial IPL gravimetric gold analyses (AUGV_I) versus IPL standard AA-finish gold analyses (AU_I). Data from file: checks3.eas. Gently sloping line is $y = x$. Steeply sloping line is reduced major axis (RMA) fitted to the data. Various statistics are defined in Appendix 1.

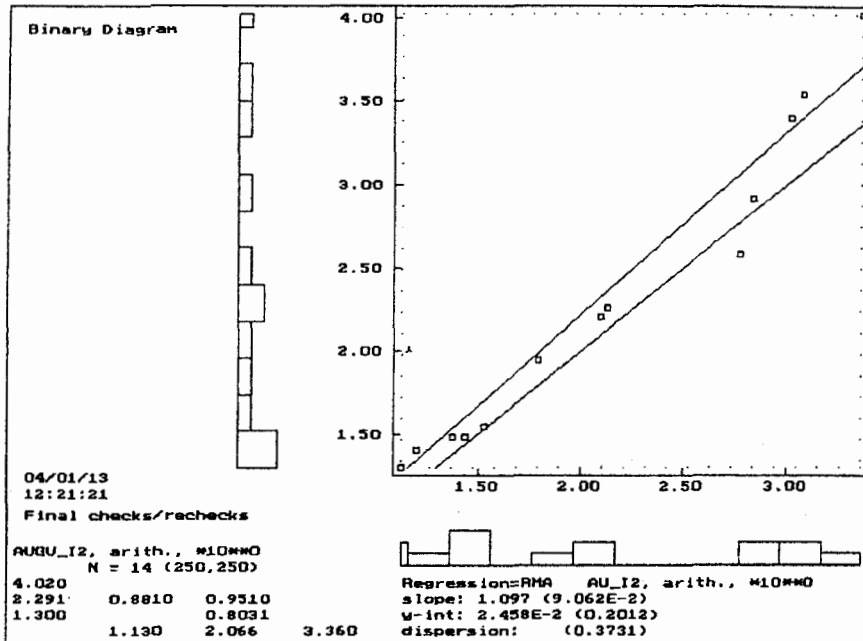


Figure 20: Scatter diagram of second IPL gravimetric gold analyses (AUGV_I2) versus IPL standard AA-finish gold analyses (AU_I). Data from file: checks3.eas. Lower line is $y = x$. Upper line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

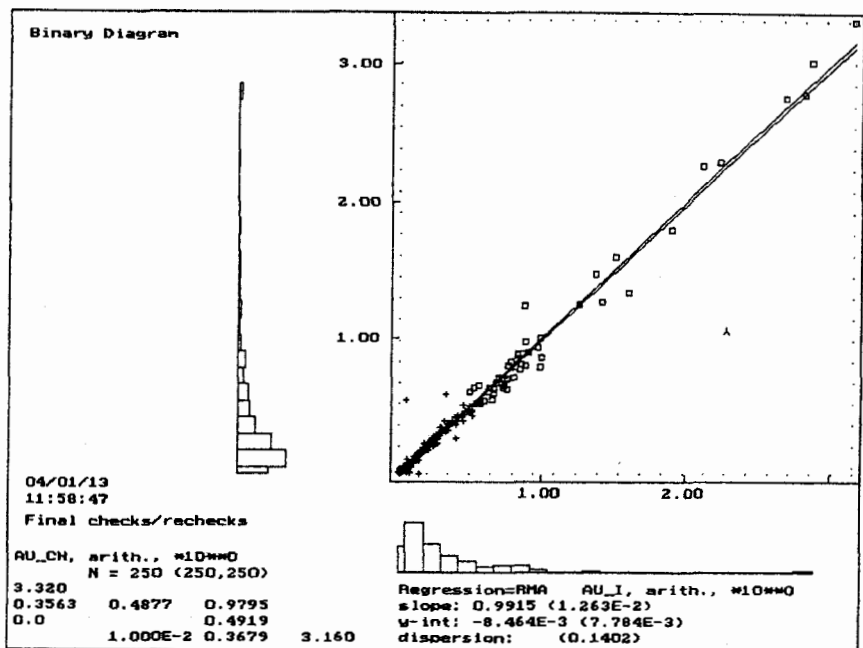


Figure 21: Scatter diagram of original Au assays by IPL (AU_1) versus monitor assay by Chemex (AU_CH) on the same pulps in 2003 (Data from file: checks3.eas). Upper line is $y = x$; lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

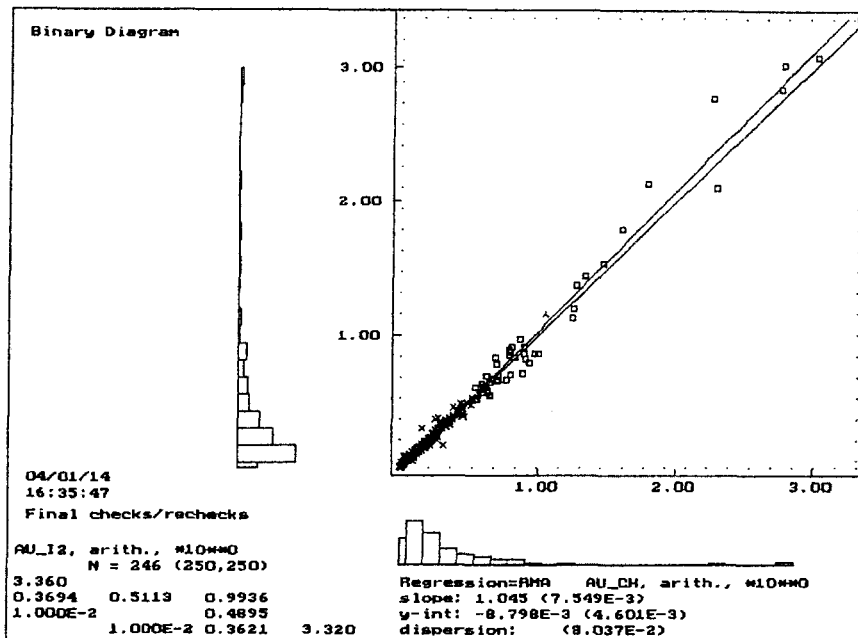


Figure 22: Scatter diagram of Chemex Au assays (AU_CH) versus corresponding second Au assay by IPL (AU_I2) on the same pulps in 2003 (Data from file: checks3.eas). The upper line is $y = x$. The lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

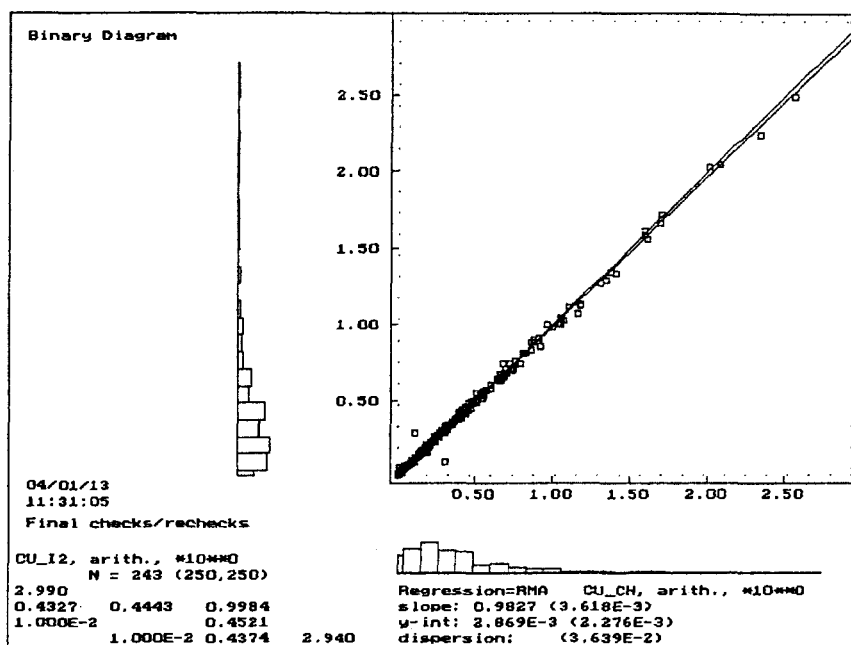


Figure 23: Scatter diagram of Chemex Cu assays (CU_CH) versus corresponding second Cu assay by IPL (CU_I2) on the same pulps in 2003 (Data from file: checks3.eas). Upper line is $y = x$; lower line is reduced major axis line (RMA) fitted to the data. Various statistics are defined in Appendix 1.

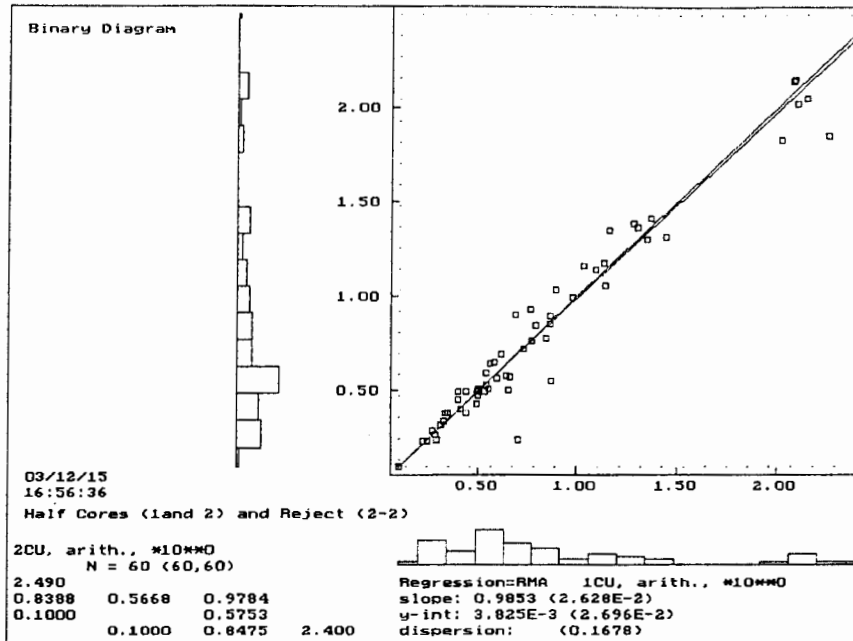


Figure 24: Scatter diagram of first half core Cu analyses by IPL (1CU) versus Cu analyses of facing half cores by IPL (2CU). Upper line is $y = x$; lower line is reduced major axis model (RMA) fitted to the data. Various statistics are defined in Appendix 1.

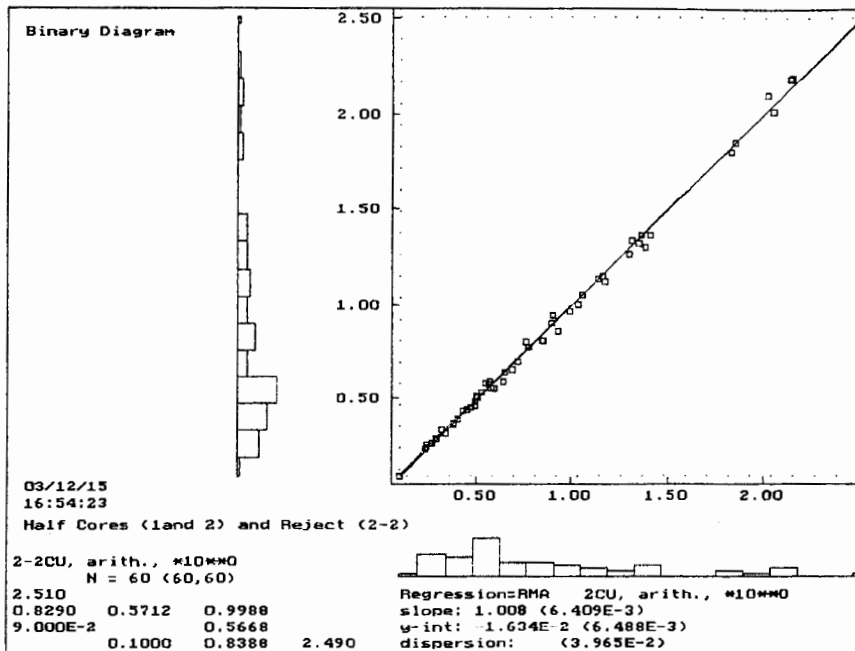


Figure 25: Scatter diagram of second half core Cu analyses by IPL (2CU) versus Cu analyses of reject from second half cores by IPL (2-2CU). The $y = x$ line and the reduced major axis line are essentially coincident. Various statistics are defined in Appendix 1.

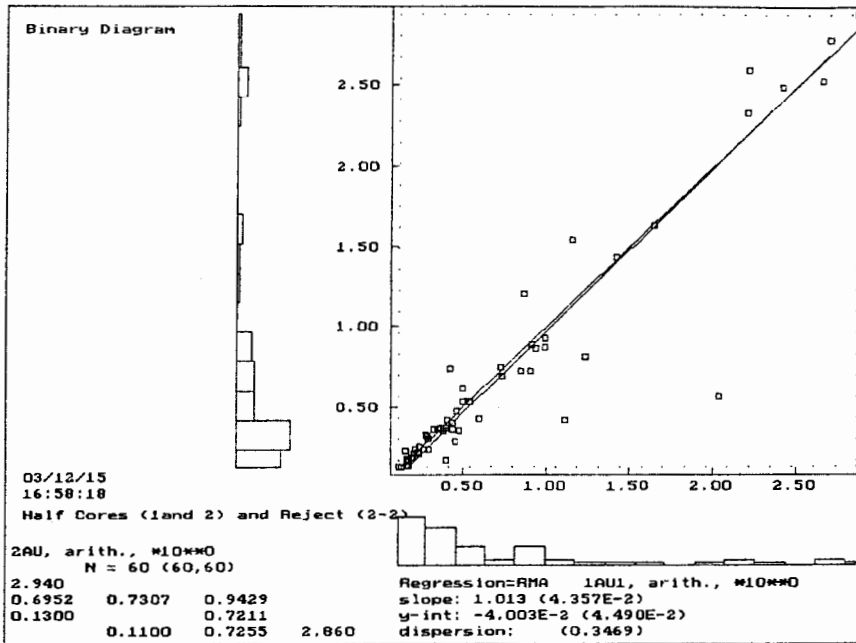


Figure 26: Scatter diagram of first half core Au analyses by IPL (1AU) versus Au analyses of facing half cores by IPL (2AU). Upper line is $y = x$; lower line is reduced major axis model (RMA) fitted to the data. Various statistics are defined in Appendix 1.

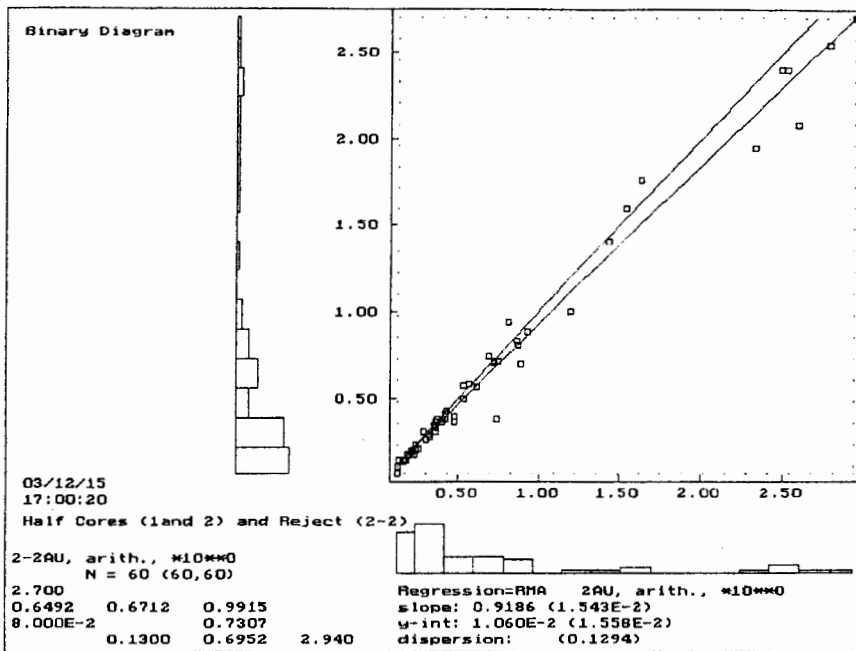
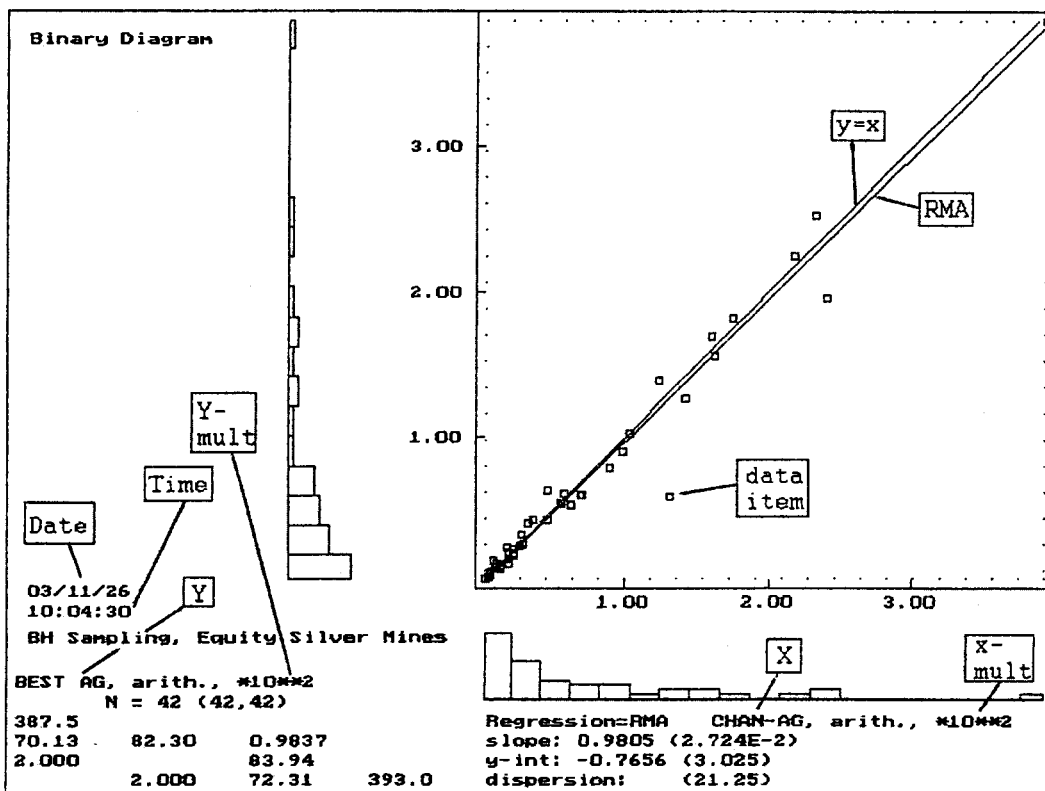
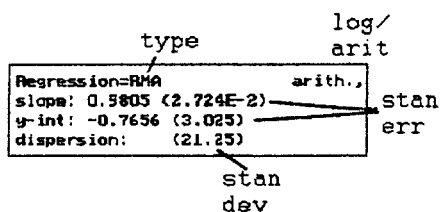
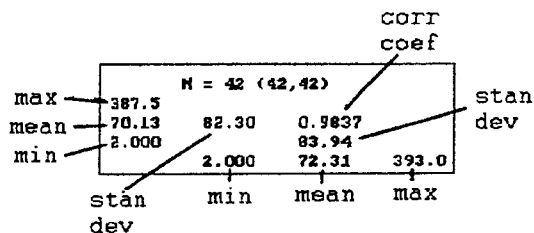


Figure 27: Scatter diagram of second half core Au analyses by IPL (2AU) versus Au analyses of reject from second half cores by IPL (2-2AU). Upper line is $y = x$; lower line is reduced major axis model (RMA) fitted to the data. Various statistics are defined in Appendix 1.

APPENDIX 1

LABELLED DIAGRAMS INDICATING THE VARIOUS STATISTICS APPEARING ON DIAGRAMS THROUGHOUT TEXT.

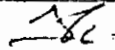


Explanation of Terms

Max	maximum value
Mean	arithmetic mean
Min	minimum value
Stan dev	standard deviation
Corr coef	simple correlation coefficient
Type	Type of regression viz. Classical least squares or reduced major axis
Log/arit	Indicates whether data are arithmetic or log-transformed
Stan err	standard error of estimates of y-intercept and slope
Dispersion	standard deviation of data about the fitted line

**BC METALS CORPORATION
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RED CHRIS PROJECT**

**2003 GEOTECHNICAL INVESTIGATIONS FOR
OPEN PIT, WASTE DUMP, PLANT SITE AND
TAILINGS STORAGE FACILITY
VOLUME I OF II
(REF. NO. VA101-159/1-1)**

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2003 GEOTECHNICAL INVESTIGATIONS FOR
OPEN PIT, WASTE DUMP, PLANT SITE AND
TAILINGS STORAGE FACILITY
(REF. NO. VA101-159/1-1)

SECTION 1.0 – INTRODUCTION

1.1 PROJECT DESCRIPTION

Red Chris Development Company Ltd. (RCDC), a wholly owned subsidiary of BC Metals, is planning to develop the Red Chris Copper/Gold porphyry deposit into a producing mine over the next few years. When developed the project will employ conventional open pit mining techniques, with ore beneficiation by a flotation concentrator operation. Key geotechnical and waste management components will include the pit wall slopes, Plant Site foundations, a Waste Dump, a Low-Grade Ore Pile and a Tailings Storage Facility.

RCDC has recently completed an extensive infill-drilling program (16,000 m) on the deposit to supplement previous exploration drilling programs (75,000 m). The objective is to raise the confidence of the resource estimate to that required for a detailed feasibility study. As an integrated extension of this recent drilling, Knight Piésold Ltd. (KP) designed and supervised a geotechnical investigation program to provide important information also for a detailed feasibility study. This report describes the geotechnical investigation program and presents the results in a comprehensive document. It includes geotechnical information from previous investigation programs by KP on the site in 1995 that consisted of a few test pits in the currently planned Waste Dump Site to the north of the deposit and in the valley that is currently proposed for the Tailings Storage Facility.

1.2 SCOPE OF WORK AND OVERVIEW OF THE INVESTIGATION

The geotechnical investigation was initially designed to cover the Pit Area and Tailings Storage Facility. KP selected the site for tailings storage from previous concept studies in

1995 and 1996. To date, little facility optimization has been done although some rough sizing for the currently planned RCDC project was carried out to ensure that the investigation would cover a sufficient area. Owing to the late summer start, one primary objective was to get onto the fieldwork completed quickly, before the onset of winter.

Just prior to the start of the field work the investigation was expanded to cover a proposed Plant Site to the southeast of the deposit and Waste Dump Site to the north of the deposit. A Low-Grade Ore Pile may also be located in a selected portion of the proposed Waste Dump Site.

The geotechnical investigation at the deposit involved drilling 9, inclined, oriented core holes at selected locations to:

- fully log the core for geotechnical properties,
- determine the locations of the contacts between the rock mass units,
- determine the frequency, locations and orientations of the key structural discontinuities in the rock units,
- obtain samples for field and laboratory shear and strength testing,
- carry out in-situ packer (Lugeon) permeability tests,
- install 1" standpipe piezometers and 2" groundwater monitoring wells in selected holes.

A total of 2500 m of drilling was completed mostly by NQ3 techniques, although in a few holes the upper portions were drilled HQ in order to install a 2" groundwater monitoring well. The holes were strategically located and oriented to intersect the anticipated pit walls at different orientations and in different rock units.

The geotechnical investigation at the proposed Waste Dump Site involved drilling two shallow (approximately 35 m in total) inclined drill holes and excavating 6 test pits in localized thin overburden or weathered surficial rock. Both drill holes were HQ size and were equipped with a 2" groundwater monitoring well.

At the Plant Site the investigation included two shallow vertical drill holes (approximately 35 m in total) with one HQ size to accommodate a 2" groundwater monitoring well and the

other NQ size to accommodate a 1" standpipe piezometer. Two test pits were also excavated at the Plant Site in shallow overburden.

At the proposed site of the Tailings Storage Facility, 4 drill holes were advanced through the deep overburden using HQ3 techniques. Approximately 210 m of drilling was carried out. Bedrock was not encountered in any of the holes. Careful drilling, with a controlled rate of penetration and minimal water pressure, allowed for the recovery of some good quality soil core samples in the HQ3 split inner tube. Undisturbed samples were obtained at selected depths for off-site laboratory strength and compressibility testing by periodically replacing the split inner tube with a thin wall plastic sampler. SPT tests were carried out at selected depths as well, and two 2" groundwater monitoring wells and two 1" standpipe piezometers were completed into the holes. In addition, a total of 16 test pits were excavated into the upper layers of the overburden at selected locations at the site of the Tailings Storage Facility. The majority of the near surface material was sand and gravel of alluvial or glaciofluvial origin but some till was also encountered

1.3 OBJECTIVES OF THIS DOCUMENT

In 2004, RCDC intends to complete a detailed feasibility study for the Red Chris Project. The document provided herein is intended to serve as comprehensive geotechnical reference to that feasibility study. It is expected that the information in this report will be used to formulate the design parameters for the pit slopes, Plant Site foundations, and the Waste Dump, Low Grade Ore Pile and the Tailings Storage Facility prior to carrying out these designs.

SECTION 2.0 - GEOLOGY OVERVIEW

The Red Chris property is located in Northern British Columbia, approximately 20 km southeast of the Town of Iskut, on the eastern portion of a large east-north-east trending fault bounded upland called the Todagin Plateau. The copper-gold porphyry deposit occurs primarily as a heavily altered and mineralized unit termed the 'Red Stock', which is characterized by a complex of intrusive bodies that are structurally controlled by numerous steeply dipping east-north-east and occasional north-south faults. To the north, the host rocks consist of volcanic pillowed lavas and flow breccias of basaltic composition and volcanically derived sedimentary rocks that are fine grained and include volcanic wacke (feldspathic sandstone), siltstone and siliceous siltstone. The volcanics are generally competent with fair to good rock mass quality. To the south a major fault (South Boundary Fault) unconformably separates the Red Stock from a sequence of marine clastic sedimentary rocks of the Bowser Lake Group, which consists of siltstone, chert-pebble conglomerate and sandstone. The fault and sedimentary rocks are generally heavily fractured and weak, and can be considered as having poor rock mass quality.

Major features of the geological groups and formations of interest can be summarized as:

- The Red Stock, which hosts the majority of the copper-gold mineralization. The Red Stock is an intrusive complex comprised of two similar phases of plutonic rocks, the "Main Phase" and the "Late Phase". The Main Phase rocks host the majority of mineralization. The Red Stock is characterized by a complex of steeply dipping intrusive bodies, which are structurally controlled by a series of steeply dipping north-north-east faults. The Red Stock is also broken by a series of north-north-west trending faults. The main rock type associated with Red Stock is monzodiorite porphyry with varying degrees of alteration.
- To the west and north of the Red Stock an intercalated series of volcanic and volcanically derived sedimentary rocks outcrops. A similar unit reportedly occurs along the southeastern side of the Red Stock in fault contact with the Ashman Formation. The volcanic rocks are dominated by pillowed lavas and flow breccias of basaltic composition while the volcanically derived sedimentary rocks are fine-grained and include siltstone, siliceous siltstone and volcanic wacke (feldspathic sandstones). These rocks underlie the area of the proposed Waste Dump and appear

to extend to the east to underlie the western portion of the proposed Tailings Storage Facility, although this has not been fully confirmed.

- To the south and east-south-east of the Red Stock the Ashman Formation outcrops. The Ashman Formation is a basal unit of the Bowser Lake Group, comprised of siltstone, chert-pebble conglomerate and sandstone. The Southern Boundary Fault unconformably separates both the Red Stock and volcanics from the Bowser Lake Group. The sedimentary rocks underlie the area of the proposed Plant Site and appear to underlie the eastern portion of the Tailings Storage Facility.

The region has been subjected to historic alpine glaciation, which has created large elevated areas of barren or near barren sculpted rock and localized deposits of till. Outwash sands and gravels are common in the lower valleys. The till tends to be dense and competent consisting of moist to wet sandy silty material with gravel, cobbles and trace clay. The outwash deposits consist of variable layers of silt, silty fine sand and coarse sand and gravel, reflecting the variable depositional energy of the outwash flow regimes.

Much of the deposit and the currently proposed Waste Dump and Plant Site areas are on exposed and sculpted bedrock with a surface that has been decomposed to a few metres in depth by weathering and freeze/thaw processes. In localized lower lying areas some overburden till is present. At the currently proposed site of the Tailings Storage Facility, which is in a valley some 5 km to the northeast and 300 m below the deposit, deep deposits of outwash sands and gravels exist with some interlayered, localized deposits of till.

SECTION 3.0 - GEOTECHNICAL INVESTIGATION

3.1 GENERAL DESCRIPTION

The fieldwork for the 2003 geotechnical investigations was carried out over the period of October 1 to November 3. Drilling, in-situ testing and the installation of groundwater monitoring wells and standpipe piezometers was carried out by Hy Tech Drilling of Smithers, BC with the assistance of, and under the technical supervision of, KP. Hy-Tech used a Tech 4000 diamond drill equipped with a wireline core retrieval system at the Pit Area, Plant Site and Waste Dump Site. A smaller Tech-1500 fly rig was utilized for the Tailings Storage Facility as the drill was moved by helicopter.

KP logged all of the holes and carried out a series of on-site tests on rock core samples, including point load (PLT) and direct shear tests. KP also prepared selected samples of rock and soil core for shipment off-site to certain laboratories for detailed tests, and KP directed these tests. RCDC coordinated the geotechnical drilling with its own infill geological drill program (also by Hy-Tech). RCDC also moved the rig between holes and reclaimed the completed drill sites.

The test pits were excavated over the period of October 18 to 22 using a CAT 320 tracked excavator and operator supplied by RCDC. KP logged the test pits and recovered bagged soil samples for shipment offsite for certain tests.

Rock core samples were tested at the UBC Geomechanics laboratory, where PLT, unconfined compressive strength (UCS) and direct shear tests were completed. Soil samples were tested at KP's geotechnical lab in Denver, where various index tests together with permeability, compressibility and triaxial shear strength tests were completed.

The following sub-sections describe the field drilling and test pits. Section 4.0, which follows, presents the results of the Pit Area investigations. Section 5.0 presents the results at the Waste Dump and Plant sites. Section 6.0 presents the results at the Tailings Storage Facility site. Selected photographs taken during the investigation are provided in Appendix A.

3.2 DRILLING INVESTIGATIONS

3.2.1 Summary of Geotechnical Drilling Investigations

A total of 17 geotechnical drill holes were drilled in the 2003 investigation. Of these, 9 inclined, oriented core holes were in the Pit Area, 2 inclined, non-oriented core holes were at the Waste Dump Site, 2 vertical holes were at the Plant Site and 4 vertical holes were in overburden at the Tailings Storage Facility site. A summary of the drill holes, their locations, orientations, depths, and the dates of drilling is presented in Table 3.1. This table also includes 3 geotechnical holes drilled in the tailings area in 1995. The locations of the 2003 and 1995 drill holes are shown on Figure 3.1.

3.2.2 Oriented Core Drilling at the Pit

Core orientation was carried out to investigate the discontinuity patterns within the rock mass in the proposed pit highwalls. Core orientation was completed using the Ballmark® system, which allows the drill core to be accurately orientated by indenting a soft metal disc using a non-magnetic ball bearing. The free moving ball settles on the low side of the inclined core catcher by gravity, and indents the soft metal disc as the core tube is pulled back. Once the core is out of the ground, the indentation of the disc is used to confirm the bottom of the core stick. Since the core is oriented during normal drilling operations, there is essentially no downtime in the drilling cycle.

The following paragraphs describe the field activities carried out during the 2003 drilling program at the Pit Area and the results are provided in Section 4.0.

Geotechnical Logging

Detailed geotechnical logging of the oriented core holes was carried out to characterize the rock mass quality. The following information was routinely collected:

- Core recovery
- Rock quality designation (RQD)

- Lithological description
- Collected/Submitted core samples (for lab testing)
- Point load strength from field PLT tests
- Depth of each discontinuity
- Discontinuity orientation and inclination (alpha and beta) angles
- Type and general character of the discontinuity
- Joint condition (roughness, aperture, alteration, infillings, etc.)
- Joint spacing

Rock Mass Classification

The rock mass characteristics observed during core logging were summarized for each core run and used to estimate the quality of the rock mass using the Rock Mass Rating (RMR) system (Bieniawski, 1989). RMR values range from near 0 for very poor rock to 100 for very good rock. The RMR system is based on determining values for the following five key rock mass parameters:

- Intact rock strength (unconfined compressive strength, UCS),
- Rock quality designation, (RQD)
- Fracture spacing,
- Fracture condition, and
- Groundwater condition.

Intact rock strength was estimated using the point load tests that were carried out during the geotechnical logging.

The RQD values were determined for each core run by summing up the lengths of all core greater than 10 cm and presenting this as a percentage of the drill run length. Similarly, fracture spacing was determined by counting the number of natural fractures encountered per length of drill run. The fracture condition was based on an evaluation of encountered fracture persistence, roughness, infilling, aperture and weathering. Groundwater parameter values were assumed based on packer permeability tests and field observations.

Point Load Strength Index Testing (PLT)

Point load strength index tests were routinely carried out on select core samples to estimate the variability of rock strength. The point load strength tests were typically conducted immediately after drilling in order to estimate the rock strength prior to desiccation and drying. Point load strength (PLT) tests were also conducted just above and below samples selected for laboratory UCS tests to establish a relationship between PLT and UCS results. This enabled the greater number of PLT results to be used to estimate the unconfined compressive strength of the rock masses.

In Situ Permeability Tests

In situ packer (Lugeon) permeability tests were carried out at selected depths in the holes to estimate the in situ permeability of the rock within the proposed highwalls. The tests were performed by pumping water down the drill rods into an isolated test zone, while measuring the flow at varying controlled test pressures. For each packer test, three ascending and two descending pressure stages were applied. A total of 27 packer tests were completed in the drill holes in the pit area.

Piezometer and Groundwater Well Installations

In selected drill holes, 1" standpipe piezometers and 2" groundwater monitoring wells were installed and completed. The type of installation in each hole is provided in Table 3.1. Groundwater levels were measured and in one 2" well (RCP03-283), a rising head permeability test was completed. The results are presented in Section 4.4.

Downhole Surveys

Upon completion of each drill hole, a downhole survey of the azimuth and dip angles along the hole was conducted by Hy-Tech. The survey was performed at set intervals in each hole using a Reflex Easy-Shot. Table 3.3 summarizes the downhole data as provided by RCDC.

For deeper holes (>250m), the azimuth ranged from 3 to 9 degrees from the target and the inclination ranged from 3 to 4 degrees from the target. For medium depth holes (<=250m), the azimuth ranged from 2 to 5 degrees from the target and up to

1 degree from the original inclination. The modified data were used in the stereographic determinations of joint sets, which are presented in Section 4.3.

3.2.3 Shallow Drilling at the Waste Dump Site and Plant Sites

Two shallow inclined holes were drilled at the Waste Dump Site and another two vertical holes were drilled at the Plant Site at the locations shown on Figure 3.1 to investigate the foundation conditions at both sites. A summary of the drill holes, including their locations, depths, and the dates of drilling is presented in Table 3.1. The drill used was a Tech 4000 diamond drill supplied and operated by Hy Tech Drilling of Smithers, BC. Drilling was completed using an NQ3 triple tube with a 10' core barrel or an HQ2 triple tube with a 5' core barrel depending on whether a 2" groundwater monitoring well or 1" standpipe piezometer was installed.

The holes were designed for both the foundation investigations and for condemnation purposes. The core was not oriented. Geotechnical logging involved making RMR determinations and observations on the individual joints. Point load tests were conducted on several samples from both sites and UCS samples were also taken for laboratory testing. One drill hole at the Plant Site and both at the Waste Dump Site received 2" groundwater monitoring wells, and rising head permeability tests were carried out in these installations. Section 5.0 contains the results of the program.

3.2.4 Overburden Drilling at the Tailings Storage Facility

Four vertical drillholes were completed at the Tailings Storage Facility to supplement the 3 holes drilled in 1995. Figure 3.1 shows the locations of the 2003 and 1995 holes in relation to the currently contemplated dam sites and Table 3.1 gives details of the holes. In 2003, one hole was drilled in the North Dam area and three holes were drilled on two potential alignments of a South Dam. No holes were drilled at the Northeast Dam site as it is well above the other two, and won't be constructed for several years after the commencement of operations. The foundations at this dam site will be investigated at the appropriate time.

The holes were drilled with a Tech 1500 fly rig equipped with HQ3 and NQ3 rods. Most of the drilling was HQ3. Attempts were made in the first hole to drill with water only but the ground squeezed the rods making progress difficult and elevated

the risk of the rods becoming jammed in the hole. Biodegradable 120 Drill Mud was subsequently added to the water to keep the hole open. This additive degraded rapidly to ensure that no longer term impacts were made in the holes.

To provide an estimate of the in-situ soil density, stiffness and liquefaction potential, Standard Penetration Tests (SPT) were conducted at frequent intervals where ground conditions permitted. In addition, at selected depths clear plastic tube sleeves were inserted into the core barrel in place of the split inner tube to collect undisturbed samples for laboratory strength, compressibility and permeability testing. Some disturbed grab samples were also collected from various split tube core lengths and bagged for index tests. Several till samples were recovered in this manner. The laboratory testing carried out on these samples is described in Section 3.5.

To provide information on the hydrogeological conditions around the Tailings Storage Facility, two 1" standpipe piezometers and two 2" groundwater monitoring wells were installed in the drill holes. Three 1.5" standpipe piezometers were installed in 1995 program. The piezometer and well installation details, and water levels, are discussed in Section 6.0.

3.3 LABORATORY TESTING OF ROCK

3.3.1 Unconfined Compressive Strength and Deformability Testing

A total of 20 laboratory unconfined compressive strength (UCS) tests were completed on selected samples of different rock and alteration types from the 9 Pit Area drill holes. The majority of tests were on Monzodiorite. Two further tests were carried out on samples of siltstone from the Plant Site drill holes and one test was carried out on a sample of the volcanics from the Waste Dump Site. The UCS tests were conducted to confirm or calibrate the PLT test data that was routinely collected in the field. The results are presented in Sections 4.0 (Pit Area) and 5.0 (Plant Site and Waste Dump).

3.3.2 Direct Shear Testing of Rock Joints

Two direct shear tests were carried out in the laboratory on monzodiorite samples from the Pit Area to verify and calibrate the results obtained from direct shear testing in the field. The results are presented in Section 4.0.

3.4 TEST PIT INVESTIGATIONS

A total of 24 test pits were excavated around the site in the 2003 program. Sixteen were located at the planned site of the Tailings Storage Facility, six were located at the Waste Dump Site and two were located at the Plant Site. The test pits were excavated to depths generally between 3.5 and 5 m using a CAT 320 hydraulic excavator. The exposed soils in the pit walls and spoil piles were logged for geotechnical data and observations and selected samples were collected in sealed bags for laboratory testing. A summary of the test pits, including their locations and depths, is presented in Table 3.2. Their locations are shown on Figure 3.1.

As much as possible, the test pit sites were accessed using existing tracks in some cases from the 1995 investigation program. Care was taken to minimize the establishment of new tracks by the excavator. Figure 3.1 shows the tracks network at the end of the program.

At each test pit site, surficial organic material and vegetation was stripped prior to excavating and stockpiled separately from the excavated soil. At the completion of each test pit, the pit was backfilled with the soil and the surface was re-contoured. The organic material was then replaced over the contoured site to recreate, as much as possible, the pre-excavation conditions.

3.5 LABORATORY TESTING OF OVERBURDEN

Selected soil overburden samples were collected from the drill holes and test pits at the site of the Tailings Storage Facility, Waste Dump, and Plant Site for laboratory testing. The laboratory testing comprised the following types and numbers of tests:

Test Type	Tailings Storage Facility				Plant Site	Waste Dump
	Test Pit Bag Samples	Core Samples	SPT Samples	Undisturbed Sleeve Samples	Test Pit Bag Samples	Test Pit Bag Samples
Moisture Content	10	3	3	3	1	1
Specific Gravity	4	0	0	2	1	1
Gradation	10	3	3	3	1	1
Hydrometer	2	3	0	0	1	1
Atterberg limits	2	2	0	0	1	0
In situ density	0	0	0	8	0	0
Consolidated undrained triaxial tests	3	0	0	2	1	0
Constant head permeability tests	3	0	0	2	1	0
Standard Proctor compaction	1	0	0	0	0	1

The results of the overburden lab testing are discussed in detail in Section 5.0 for the Waste Dump and Plant Site and in Section 6.0 for the Tailings Storage Facility.

SECTION 4.0 - PIT AREA GEOTECHNICAL CONDITIONS

4.1 GEOLOGY

In general, the main geological units encountered in the Pit Area included the Bowser sediment, Red Stock monzodiorite intrusive, and Dynamic Hill volcanic. The South Boundary Fault contact between the Bowser sediment and Red Stock is highly sheared and is relatively thick with breccia filled with clay minerals. Slickensides and gouges were commonly found on the joint surfaces within the fault. The Bowser sediment consists of a very weak siltstone and it is highly fractured with very low UCS while the Red Stock intrusive and the volcanics are typically relatively strong and competent. The Red Stock has been subjected to extensive mineral alteration processes but the physical alteration has been found to decrease with depth.

4.2 DRILL HOLE DESCRIPTIONS AND GEOLOGICAL SUMMARIES

4.2.1 General

The locations of the 9 drill holes completed during the program are shown on Figure 4.1 together with orientation details and lengths. Sections illustrating the approximate intersection of the drill holes with the conceptual pit wall are on Figure 4.2. Photographs of selected core in the core boxes, illustrating the various rock units and typical rock mass properties, are provided in Appendix A. A summary of the drill holes is provided in Table 3.1 and detailed drill hole logs with the geomechanical data are included in Appendix B. The general geological and geomechanical characteristics are described below for each drill hole. All depths are inclined depths but have not been corrected for the post drilling survey deviations.

RCP03-262

Drill hole RCP03-262 was located in the east area of the planned pit and was oriented at an azimuth of 180 degrees and an inclination of 60 degrees below the horizontal. The total inclined length of the drill hole was 400 m. This hole was drilled to collect discontinuity orientation and geomechanical data from the Red Stock unit in the lower southeast sector of the pit.

The geology encountered in RCP03-262 was logged by RCDC geologists and comprised the following:

- 0 m to 6.1 m - casing (overburden)
- 6.1 m to 34.5 m – Altered monzodiorite breccia with faulting.
- 34.5 m to 50 m – Main phase plagioclase-hornblende-porphyritic monzodiorite with faulting.
- 50 m to 61.9 m – Main phase monzodiorite dyke
- 61.9 m to 74.8 m – Main phase plagioclase-hornblende-porphyritic monzodiorite with faulting.
- 74.8 to 138 m - Altered monzodiorite breccia with moderate amounts of quartz flooding and several faults.
- 138 to 280.3 m - Main phase plagioclase-hornblende-porphyritic monzodiorite with faulting.
- 280.3 to 284.2 m – Lecocratic aphanatic dyke
- 284.2 to 343.9 m - Main phase plagioclase-hornblende-porphyritic monzodiorite with faulting.
- 343.9 to 378.3 m - Altered monzodiorite breccia with faulting.
- 378.3 to 388.4 m - Main phase plagioclase-hornblende-porphyritic monzodiorite.
- 388.4 to 400.2 m - Altered monzodiorite breccia with faulting.

The rocks encountered in the drill hole contained a number of faults, some separating individual rock units, some within the given rock units and all tending to be near vertical. Joint infilling, consisted primarily (in descending order of prominence) of calcite, clay, chlorite, gouge, pyrite and quartz, with a moderate number of joints having orientable slickensides. Shear zones typically exhibited clay and gouge infilling and the faults tended to have fault breccia associated with them. Brecciated zones exhibited either well healed or clay healed characteristics and thus tended to have a large range of strengths associated with them. Discontinuity types recorded were primarily joints, shears and veins and the orientation quality of the individual discontinuities were predominately good to very good with some discontinuities exhibiting fair to poor orientation quality. The RMR joint condition for each discontinuity (Jc) ranged from 8 to 25 on a scale of 0 to 30, with 60% above a rating of 15. On a run basis, the field estimated UCS values ranged from 20 to 110 MPa

with an average estimated strength of 62 MPa. Due to the high amount of faulting and shearing present, RQD values ranged from 0 to 100% averaging out at 60% for the hole. RMR89 ratings ranged from 33 to 70% with an average of 52%.

RCP03-267

Drill hole RCP03-267 was located in the eastern area of the planned pit and was oriented at an azimuth of 0 degrees and an inclination of 60 degrees below the horizontal. The total inclined length of the drill hole was 417 m. Hole 267 was drilled to collect discontinuity orientation, geomechanical and hydrogeological data in the Red Stock unit in the lower northeast sector of the pit.

The geology encountered in RCP03-267 was logged by RCDC geologists and comprised the following:

- 0 m to 4.6 m - casing (overburden)
- 4.6 m to 66.6 m – Main phase intrusive breccia with faulting.
- 66.6 m to 319.7 m – Main phase plagioclase-hornblende-porphyrific monzodiorite with faulting.
- 319.7 m to 322.7 m – Leucocratic aphanatic dyke.
- 322.7 m to 373.9 m – Main phase intrusive breccia.
- 373.9 to 417.4 m - Main phase plagioclase-hornblende-porphyrific monzodiorite.

The rock in this hole contained a number of faults, some separating individual rock units, and some were within the given rock units. The faults tended to be near vertical. Joint infilling consisted primarily (in descending order of prominence) of chlorite, sericite, clays, pyrite, gouge and quartz and a few had orientable slickensides. Shear zones typically had clay and gouge infilling and faults tended to have fault breccia associated with them. Brecciated zones had either well healed or clay healed characteristics and thus tended to have a large range of strengths associated with them. Discontinuity types recorded were primarily joints, shears and veins and the orientation quality of the individual discontinuities were 46% fair, 36% good to very good and the remainder having poor to no orientation quality. The RMR joint condition for each discontinuity (Jc) ranged from 12 to 22 on a scale of 0

to 30 with 70% above a rating of 15. On a run basis, estimated UCS values ranged from 5 to 100 MPa with an average estimated strength of 85 MPa. Due to the high amount of faulting and shearing present, RQD values ranged from 0 to 100% averaging out at 76% for the hole. RMR89 ratings ranged from 11 to 78% with an average of 57%.

RCP03-272

Drill hole RCP03-272 was located at the east end of the planned pit at an azimuth of 90 degrees and an inclination of 60 degrees below the horizontal. The total inclined length of the drill hole was 200 m. The hole was drilled to collect discontinuity orientation and geomechanical data from mid-depth in the Red Stock unit that will form the east wall of the planned pit.

The geology encountered in RCP03-272 was logged by RCDC geologists and comprised the following.

- 0 m to 7.62 m - casing (overburden)
- 7.62 m to 146.7 m – Altered monzodiorite breccia with possible faulting.
- 146.7 m to 200 m – Main phase plagioclase-hornblende-porphyritic monzodiorite with faulting.

The rocks encountered in the hole contained a number of faults and narrow shears from which poor recovery was obtained. Joint infilling (in descending order of prominence) consisted of chlorite, sericite, clays, gouge, quartz and pyrite. Shear zones typically had clay and gouge infilling and faults tended to have fault breccia associated with them. Brecciated zones had either well healed or clay healed characteristics and thus tended to have a large range of strengths associated with them. Discontinuity types recorded were primarily joints, shears and veins and the orientation quality of the individual discontinuities were 27% fair, 20% good to very good with the remainder having poor to no orientation quality. The RMR joint condition for each discontinuity (Jc) ranged from 12 to 22 on a scale of 0 to 30 with 13.6% above a rating of 15. On a run basis, estimated UCS values ranged from 5 to 100 MPa with an average estimated strength of 61 MPa. Due to the high amount of faulting and shearing present, RQD values ranged from 0 to 100%, averaging out at

46% for the hole. RMR89 ratings ranged from 11 to 62% with an average rating of 45%.

RCP03-275

Drill hole RCP03-275 was located in the north-east area of the pit at an azimuth of 330 degrees and an inclination of 53 degrees below the horizontal. The total inclined length of the drill hole was 222.3 m. The hole was drilled to collect discontinuity orientation, geomechanical and hydrogeological data from the volcanics unit in the northeast sector of the pit.

The geology encountered in RCP03-275 was logged by RCDC geologists and comprised the following.

- 0 m to 4.5 m - casing (overburden)
- 4.5 – 139.9 m – Medium grained andesite with mafic and feldspathic tuffs.
- 139.9 m to 144.1 m – Leucocratic aphanatic dyke.
- 144.1 m to 222.3 m – Trachytic tuffs.

The rocks intersected in hole 275 contained few to no faults and few shears. Jointing infilling (in descending order of prominence) consist of quartz, chlorite, sericite, pyrite, and gouge with a few having orientable slickensides. Discontinuity types recorded were primarily joints, shears and veins and the orientation quality of the individual discontinuities were 20% fair, 68% good to very good and the remainder having poor to no orientation quality. The RMR joint condition for each discontinuity (Jc) ranged from 12 to 23 on a scale of 0 to 30 with 79.5% above a rating of 15. On a run basis, estimated UCS values ranged from 10 to 120 MPa with an average estimated strength of 106 MPa while RQD ranged from 0 to 100% averaging out at 77% for the hole. Subsequent RMR89 ratings ranged from 26 to 82% with an average rating of 59%.

RCP03-278

Drill hole RCP03-278 was located in the south side of the eastern portion of the planned pit at an azimuth of 0 degrees and an inclination of 63 degrees below the

horizontal. The total inclined length of the drill hole was 362.2 m. This hole was drilled primarily to penetrate the Bowser sediments and South Boundary Fault, and to extend into the Red Stock, to locate and define these contacts and to provide discontinuity orientation and geomechanical data for these units.

The geology encountered in RCP03-278 was logged by RCDC geologists and comprised the following.

- 0 m to 4.9 m - casing (overburden)
- 4.9 m to 62.2 m – Argillaceous siltstone with finely laminated sub-horizontal bedding and calcareous jointing.
- 62.2 m to 64.0 m – Chert pebble conglomerate.
- 62.2 m to 64.0 m – Argillaceous siltstone with finely laminated sub-horizontal bedding and calcareous jointing.
- 68.0 m to 68.3 m – Chert pebble conglomerate.
- 68.3 to 81.0 m - Argillaceous siltstone with finely laminated sub-horizontal bedding and calcareous jointing.
- 81.0 to 134.1 m – South boundary fault, main phase intrusive breccia.
- 134.1 to 142.0 m - Main phase intrusive breccia.
- 142.0 to 155.1 m - Main phase plagioclase-hornblende-porphyritic monzodiorite.
- 155.1 to 216.5 m - Main phase intrusive breccia.
- 216.5 to 265.8 m - Main phase plagioclase-hornblende-porphyritic monzodiorite.
- 265.8 to 279.3 m - Main phase intrusive breccia.
- 279.3 to 322.4 m - Main phase plagioclase-hornblende-porphyritic monzodiorite with faulting.
- 322.4 to 362.2 m - Main phase intrusive breccia with faulting.

The rocks encountered in this hole were quite variable as both Bowser Group Sedimentary (Argillaceous Siltstone) and Red Stock (Brecciated and Competent Monzodiorite) units were intersected. The region is characterized by the occurrence of the South Boundary Fault, which separates the aforementioned rock units.

Argillaceous siltstone was encountered above a depth of 81 m, and exhibited poor rock mass quality in terms of jointing and rock strength. Joint infilling (in descending order of prominence) consisted primarily of clays, gypsum and gouge with a fair number of non-orientable slickensides. Sub-horizontal bedding was also observed to be prominent. Discontinuity types recorded were primarily joints and shears with only 4 of 175 verified discontinuities having orientation. The RMR joint condition for each discontinuity (Jc) ranged from 8 to 17 on a scale of 0 to 30 with 13.7% above a rating of 15. On a run basis, estimated UCS values ranged from 20 to 40 MPa with an average estimated strength of 30 MPa. Due to the high amount of faulting and shearing present, RQD values ranged from 0 to 66% averaging out at 14% for this segment of hole. RMR89 ratings ranged from 11 to 44% with an average rating of 31%.

Main phase intrusive monzodiorite breccia was encountered between 81 and 134 m depth. It exhibited intense brecciation with clay healing. Breccia fabric composition was typically 50% clay and 50% fragments making it very incompetent. Joint infilling (in descending order of prominence) consisted primarily of clays, gouge, sericite and gypsum. Discontinuity types were primarily joints and shears and the orientation quality of the individual discontinuities were 84% poor to none with the remaining 16% having fair to good orientation quality. The RMR joint conditions for each discontinuity (Jc) ranged from 8 to 17 on a scale of 0 to 30 with 31% above a rating of 15. On a run basis, estimated UCS values ranged from 20 to 30 MPa with an average estimated strength of 21 MPa. Due to the high amount of faulting and shearing present, RQD values ranged from 9 to 100% averaging out at 77% for this segment of the hole. RMR89 ratings ranged from 31 to 63% with an average rating of 49%.

Competent Monzodiorite was encountered from 134 to the end of the hole at 362 m depth. Joint infilling (in descending order of prominence) consisted primarily of sericite, clays, quartz, chlorite and gouge. Discontinuity types were primarily joints and shears and the orientation quality of the individual discontinuities were 64% poor to none with the remaining 36% having fair to good orientation quality. The RMR joint conditions for each discontinuity (Jc) ranged from 8 to 18 on a scale of 0 to 30 with 29% above a rating of 15. On a run basis, estimated UCS values ranged from 10 to 100 MPa with an average estimated strength of 49 MPa. Due to the high amount of faulting and shearing present, RQD values ranged from 0 to 100% averaging out at

50% for this segment of the hole. RMR89 ratings ranged from 28 to 66% with an average rating of 46%.

RCP03-282

The collar of drill hole RCP03-282 was located at the same point as that of hole 278, however it was oriented at an azimuth of 150 degrees and an inclination of 60 degrees below the horizontal, into the southeast wall of the planned pit. The hole was drilled to determine discontinuity orientation, geomechanical and hydrogeological data in the Bowser Sediments. During drilling, difficulty was experienced with the sediments collapsing on the rods and the hole was terminated at a length of 93.6 m. The target length was 175 m.

The geology encountered in RCP03-282 was described by RCDC geologists and comprised the following.

- 0 m to 5.8 m - casing (overburden)
- 5.8 m to 80.3 m – Argillaceous siltstone with finely laminated sub-horizontal bedding and calcareous jointing.
- 80.3 m to 81.5 m – Chert pebble conglomerate.
- 81.5 m to 93.6 m – Argillaceous siltstone with finely laminated sub-horizontal bedding and calcareous jointing.

The sediments intersected in the hole contained a number of faults and shear zones. Joint infilling (in descending order of prominence) consisted primarily of nil (bedding), clays, and carbonate with no orientable slickensides. Shear zones typically had clay and gouge infilling and faults tended to have fault breccia associated with them. Brecciated zones had either well healed or clay healed characteristics and thus tended to have a large range of strengths associated with them. Discontinuity types consisted primarily of joints and shears and the orientation quality of the individual discontinuities were 11% fair with the remainder having poor to no orientation quality. The RMR joint condition for each discontinuity (Jc) ranged from 5 to 16 on a scale of 0 to 30 with 54% above a rating of 12. On a run basis, estimated UCS values ranged from 5 to 70 MPa with an average estimated strength of 22 MPa and due to the high amount of faulting and shearing present. RQD values ranged from 0

to 74% averaging out at 11% for the hole. RMR89 ratings ranged from 13 to 55% with an average of 33%.

RCP03-283

Drill hole RCP03-283 was a vertical metallurgical hole in the west center of the planned pit that was used for the installation of a 2" groundwater monitoring well. No discontinuity orientation or geomechanical data were obtained from this hole.

RCP03-285

Drill hole RCP03-285 was located in the northwest area of the pit at an azimuth of 315 degrees and an inclination of 60 degrees below the horizontal. The total inclined length of the drill hole was 200.9 m. The hole was drilled to collect discontinuity orientation, geomechanical and hydrogeological data from the sector of the Red Stock that is expected from northwest wall of the pit.

The geology encountered in RCP03-285 was logged by RCDC geologists and comprised the following.

- 0 m to 6.1 m - casing (overburden)
- 6.1 m to 34.3 m – Main phase monzodiorite dyke.
- 34.3 m to 36.6 m – Strongly clay altered dyke.
- 36.6 m to 68.5 m – Main phase plagioclase-hornblende-porphyrific monzodiorite.
- 68.5 m to 68.9 m – Mafic dyke.
- 68.9 to 78.5 m - Main phase plagioclase-hornblende-porphyrific monzodiorite.
- 78.5 to 80 m - Strongly clay altered dyke.
- 80.0 to 86.1 m - Main phase plagioclase-hornblende-porphyrific monzodiorite.
- 86.1 to 90.8 m - Strongly clay altered dyke.
- 90.8 to 142.4 m - Main phase plagioclase-hornblende-porphyrific monzodiorite.
- 142.4 to 151.2 m - Main phase monzodiorite dyke

- 151.2 to 153.9 m - Strongly clay altered dyke.
- 153.9 to 162.4 m - Main phase plagioclase-hornblende-porphyritic monzodiorite.
- 162.4 to 164.1 m - Strongly clay altered dyke.
- 164.1 to 200.9 m - Main phase plagioclase-hornblende-porphyritic monzodiorite.

Joint infilling within this hole (in descending order of prominence) consisted primarily of sericite, clays, chlorite, sulfides, gypsum and gouge, with none having orientable slickensides. Shear zones typically had clay and gouge infilling and faults tended to have fault breccia associated with them. Brecciated zones had either well healed or clay healed characteristics and tended to have a large range of strengths associated with them. Discontinuity types recorded consisted primarily of joints, shears and veins, and the quality of the orientations of the individual discontinuities were 33% good, 9% fair with the remainder having poor to no orientation quality. The RMR joint condition for each discontinuity (Jc) ranged from 10 to 20 on a scale of 0 to 30 with 60% above a rating of 15. On a run basis, estimated UCS values ranged from 10 to 80 MPa with an average estimated strength of 54 MPa. Due to the high amount of faulting and shearing present, RQD values ranged from 0 to 100%, averaging out at 75% for the hole. RMR89 ratings ranged from 16 to 70% with an average of 56%.

RCP03-286

Drill hole RCP03-286 was located at the western end of the planned pit at an azimuth of 180 degrees and an inclination of 60 degrees below the horizontal. The total inclined length of the drill hole was 350.3 m. The hole was drilled to collect discontinuity orientation and geomechanical data from the Red Stock unit that will form the southwest wall of the pit.

The geology encountered in RCP03-286 was logged by RCDC geologists and comprised the following.

- 0 m to 3.1 m - casing (overburden)
- 3.1 m to 135.3 m – Main phase plagioclase-hornblende-porphyritic monzodiorite.

- 135.3 m to 143.8 m – Feldspar, hornblende, biotite porphyry dyke.
- 143.8 to 162.5 m - Main phase plagioclase-hornblende-porphyrific monzodiorite.
- 162.5 to 167.5 m - Strongly clay altered dyke with faulting.
- 167.5 to 287.2 m - Main phase plagioclase-hornblende-porphyrific monzodiorite.
- 287.2 to 288.1 m - Strongly clay altered dyke.
- 288.1 to 328.5 m - Main phase plagioclase-hornblende-porphyrific monzodiorite.
- 328.5 to 330.4 m - Strongly clay altered dyke.
- 330.4 to 350.3 m - Main phase plagioclase-hornblende-porphyrific monzodiorite.

Joint infilling observed in the hole (in descending order of prominence) was primarily sericite, chlorite, clays, pyrite/sulfides, gypsum and gouge, with none having orientable slickensides. Shear zones typically had clay and gouge infilling and faults tended to have fault breccia associated with them. Brecciated zones had either well healed or clay healed characteristics and therefore can expect to have a large range of strengths associated with them. Discontinuity types recorded were primarily joints, shears and veins, and the quality of the orientations of the individual discontinuities can be summarized as 47% good, 11% fair and the remainder having poor to no orientation quality. The RMR joint condition for each discontinuity (Jc) ranged from 10 to 20 on a scale of 0 to 30, with 58% above a rating of 15. On a run basis, estimated UCS values ranged from 10 to 80 MPa with an average estimated strength of 65 MPa. Due to the large amount of faulting and shearing present, RQD values ranged from 0 to 100%, averaging out at 84%. RMR89 ratings ranged from 34 to 76% with an average of 60%.

RCP03-289

Drill hole RCP03-289 was located in the south central area of the planned pit and was oriented into the south wall. The hole was oriented at an azimuth of 165 degrees and an inclination of 60 degrees below the horizontal. The total inclined length of the drill hole was 251.5 m. The hole was drilled to collect discontinuity orientation and geomechanical data from the Red Stock unit in the south central sector of the pit.

The geology encountered in RCP03-289 was described by RCDC geologists and comprised the following.

- 0 m to 3.05 m - casing (overburden)
- 3.05 m to 34.1 m – Main phase intrusive breccia.
- 34.1 to 53.3 m - Main phase plagioclase-hornblende-porphyritic monzodiorite.
- 53.3 to 82.6 m – Fault/dyke zone
- 82.6 to 251.5 m - Main phase plagioclase-hornblende-porphyritic monzodiorite.

Joint infilling (in descending order of prominence) consisted primarily of chlorite, sericite, clays, pyrite/sulfides, quartz, gouge and calcite, with none having orientable slickensides. Shear zones typically had clay and gouge infilling and faults tended to have fault breccia associated with them. Brecciated zones had either well healed or clay healed characteristics and thus tended to have a large range of strengths associated with them. Discontinuity types recorded were primarily joints, shears and veins and the orientation quality of the individual discontinuities were 45% good, 9% fair and the remainder having poor to no orientation quality. The RMR joint condition for each discontinuity (Jc) ranged from 10 to 20 on a scale of 0 to 30, with 64% above a rating of 15. On a run basis, estimated UCS values ranged from 5 to 100 MPa with an average estimated strength of 55 MPa. Due to the high amount of faulting and shearing present, RQD values ranged from 0 to 100%, averaging out at 68% for the hole. RMR89 ratings ranged from 10 to 77% with an average of 53%.

4.3 INTACT ROCK STRENGTH AND DEFORMABILITY

4.3.1 General

Intact rock strengths were initially determined from the field investigations using an estimated unconfined compressive strength (UCS) classification system that approximates the strength based on hammer blows of the material in question. These were then calibrated by on-site point load tests at random intervals wherever possible. Due to the limitations of the PLT equipment to properly test low strength rock (due to

the small scale divisions on the pressure gauge), mainly harder and more competent rock samples were tested. The higher point load tests were then averaged against the estimated UCS values for lower rock strengths on a per run basis. In addition to these field tests, twenty three core samples were submitted to the UBC Geomechanics Laboratory for UCS testing, and 6 of the samples were chosen for further Young's Modulus and Poisson's ratio testing. The results of the field and laboratory strength and deformability tests are described in the following sub-sections.

4.3.2 Point Load Strength Testing

A total of 116 Point Load Tests (PLT) were randomly done on the holes throughout the drilling program available in the back of the report in Table 4.1. Values ranged significantly in all rock types due to the high variation even on a local scale. This also made a Site PLT – Lab UCS comparison impractical for analysis purposes. The following table summarizes the PLT data from the site investigation:

ON-SITE PLT TESTING - ALL HOLES				
Rock Type	Number of Samples	AVE (MPa)	MIN (MPa)	MAX (MPa)
Monzonite	86	68	5	250
Argillaceous Siltstone	8	23	0	69
Volcanic	21	104	25	249

4.3.3 Unconfined Compressive Strength and Deformability

The results from the laboratory UCS testing were also quite variable as shown in the table below.

LAB UCS TESTING - ALL HOLES				
Rock Type	Number of Samples	AVE (MPa)	MAX (MPa)	MIN (MPa)
Monzodiorite	16	64	121	13
Argillaceous Siltstone	3	65	144	17
Volcanic	4	102	165	31

Young's Modulus ("Modulus") and Poisson's Ratio ("Ratio") tests were performed on 6 of the 23 samples. Although all 6 of the tested core specimens yielded modulus results, only 3 of the tests could be interpreted for the Poisson's Ratio. The two tested specimens of Argillaceous Siltstone were found to have Young's Modulus values of 6 and 15 GPa and the higher modulus sample had a Poisson's Ratio of 0.12. The monzodiorite had Modulus values of 11, 23 and 25 GPa with Poisson's Ratio's of 0.13 and 0.15 for the higher two Modulus results. The Modulus for the Volcanic Sandstone was 8 GPa but no Poisson's Ratio value could be interpreted from the test.

The laboratory testing report provided by UBC is contained in Appendix C while Table 4.2 summarizes the results.

4.3.4 Direct Shear Testing

On-site direct shear testing was done on selected joint samples from various drill holes in the Pit Area. The peak friction angle strength data for all tested samples ranged from 14 to 34 degrees, with an average of 25 degrees. Detailed test sheets are provided in Appendix D. Two core samples of monzodiorite were also submitted to UBC for direct shear test analyses and the results, in terms of peak friction angles were 38 and 29 degrees, while the residual friction angles were 38 and 28 degrees respectively. These results are included in Appendix C. A brief summary is given below and a detailed tabulation of the results is given in Table 4.3. No residual friction angles were calculated for the field-tested samples, as the test data did not allow for the generation of these angles.

▲R1

DIRECT SHEAR TESTING				
(Results are of Peak Friction Angle)				
Rock Type	Number of Samples	AVE	MAX	MIN
Monzodiorite	15 site, 2 UBC	30	34	14
Argillaceous Siltstone	1	27	27	27
Volcanics	3	22	26	18

4.3.5 Stereographic Analysis

Stereographic analyses of the orientations of the discontinuities in each drill hole were compiled using the computer program Dips[®] and the results are plotted beside each drill hole on Figure 4.3. Each stereonet plot is also illustrated on a full page on Figures 4.4 to 4.12. A Terzaghi weighting of 15 degrees was used in order to minimize the effects of jointing parallel to the hole not being represented as much as jointing across the core axis. Table 4.4 summarizes the preliminary joint set data per hole.

The data were made from all recorded discontinuities in each hole as a preliminary kinematic analysis. At this time the information has not been segregated into the different geological units or planned sectors of the pit, which will be necessary as part of any future pit geotechnical planning. Moreover, in any future planning, the data may not be weighted equally since factors such as orientation quality, discontinuity type and joint condition among others will need to be accounted for.

4.4 HYDROGEOLOGICAL SUMMARY

Packer (Lugeon) permeability tests were completed in most drill holes to quantify the permeability of the rock masses and to identify zones of potentially higher permeability. The test intervals were recorded as inclined depths down the holes. Rising head tests were also done in several of the 2" groundwater monitoring wells. The results of the permeability tests are provided in Table 4.5 and are plotted on Figures 4.13 through 4.20. The calculation sheets for the tests are included in Appendix E. Descriptions of the results in each hole are given below.

Measured water levels in 1" standpipe piezometers and 2" groundwater monitoring wells are provided in Table 4.6 (measurements made on November 2, 2003). Logs of the piezometer and well installations are provided in Appendix F.

RCP03-262

Four packer tests were completed in RCP03-262. The major rock unit associated with this hole is monzodiorite with faulting, shearing and brecciation throughout. The test intervals ranged from 45 to 80 m in length and tests were completed between lengths of 124 and

400 m down the hole. The results showed that there exists the possibility of moderate inflows from 124 to 174 m where the permeability was measured at an average of $4E-5$ cm/s over this test length. This interval included a highly fractured zone between 132 and 136 m that has very poor core recovery. This interval also included five faults that were identified by RCDC geologists. The remaining tests gave permeability values below $5E-6$ cm/s. A plotted log of the permeability result from each tested interval is shown on Figure 4.13.

RCP03-267

Four packer tests were completed in RCP03-267. The major rock unit associated with this hole is monzodiorite with faulting, shearing and brecciation throughout. The testing intervals ranged from 30 to 65 m in length and tests were completed between 112 and 356 m down the hole. The results showed that there exists the possibility of moderate inflows from the second interval tested, 179 to 242 m, which had a calculated permeability of $7E-5$ cm/s. This interval included an extremely fractured zone between 161 and 178 m and a moderately broken zone between 212 and 227 m, as identified by poor RQD and low recovery. The remaining intervals exhibited low permeability values, less than $1.6E-6$ cm/s. A plotted log of the permeability result from each tested interval is shown on Figure 4.14.

RCP03-272

Three packer tests were completed in RCP03-272. Similar to the above holes, the major rock unit associated with this hole is monzodiorite, with faulting, shearing and brecciation throughout. The testing intervals ranged from 50 to 60 m in length and tests were completed between 27 and 200m down the hole. The results showed that there exists the possibility of moderate inflows over the length of this hole. The lowest permeability identified was $6E-5$ cm/s and highest was $2E-5$ cm/s. Intense faulting and breccia characterize this hole, and intrusive breccia dominates the hole to 150 m and between 158 and 200 m where intense fracturing is common. A plotted log of the permeability result from each tested interval is shown on Figure 4.15.

RCP03-275

Four packer tests were completed in RCP03-275. The major rock unit associated with this hole is volcanic Andesite and it is characterized by fair to good RMR over the majority of the hole. The testing intervals ranged from 37 to 67 m in length and from 24 to 222 m down the

hole. The results showed that there exists the possibility of high to moderate inflows over the length of this hole. The first tested interval from 24 to 61 m had a high permeability due to the highly fractured nature of the rock. This interval had a calculated permeability of $1\text{E-}4$ cm/s. The rest of the hole had moderate permeability values that ranged from $1\text{E-}5$ to $7\text{E-}5$ cm/s. A plotted log of the permeability results from each tested interval is shown on Figure 4.16.

RCP03-278

Two packer tests were completed in RCP03-278. The major rock unit associated with this hole is monzodiorite and is characterized by brecciation, shearing and faulting. The testing intervals were 45 and 80 m in the two tests, which were completed between 182 and 306 m down the hole. The results showed that there exists the possibility of low to moderate inflows over this length of the hole. The first tested interval from 182 to 262 m had a low permeability of $7\text{E-}6$ cm/s while the second interval from 262 to 306 m had a slightly higher value of $1\text{E-}5$ cm/s. This region contains fault breccia and broken zones with clay healing. A plotted log of the permeability results for each tested interval is shown on Figure 4.17.

RCP03-283

A rising head test was completed in a 2" groundwater monitoring well installed in RCP03-283. The testing interval was between 62.1 and 65.7 m, the completion zone for this well. The well was completed into monzodiorite and the calculated permeability was $1\text{E-}5$ cm/s.

RCP03-285

Three packer tests were completed in RCP03-285. The major rock unit intersected by this hole is monzodiorite, which contained minor faulting and zones of shear with fair to good RMR over much of the hole. The permeability testing intervals ranged from 15 to 67 m in length and the tests were carried out between 58 and 201 m down the hole. The results showed that there exists the potential for moderate inflows in the middle interval, which had a calculated permeability of $1\text{E-}5$ cm/s. The upper and lower tests gave lower permeability values of $4\text{E-}7$ cm/s. A plotted log of the permeability results for each tested interval is shown on Figure 4.18.

RCP03-286

Four packer tests were completed in RCP03-286. The major rock unit associated with this hole is monzodiorite. Minor faulting and zones of shear with fair to good RMR were observed over much of the hole. The testing intervals ranged from 45 to 60 m in length and the tests were carried out between 45 and 331 m down the hole. The results showed that there exists the potential for moderate to low inflows over the length of this hole. The permeability values ranged from 1E-5 cm/s in the upper interval to 5E-7 cm/s in the third one. The other two tests gave values in between these. Figure 4.19.

RCP03-289

Three packer tests were completed in RCP03-289. The major rock unit associated with this hole is monzodiorite. Minor faulting and zones of shear with fair RMR were observed over much of the length of this hole with the exception of a highly fractured zone at 208 m. The testing intervals ranged from 46 to 72 m in length and the tests were completed between 39 and 233 m down the hole. The results showed that there exists the possibility of moderate inflows from 161 to 233 m where the permeability was calculated to be 3E-5 cm/s. The other two tests gave permeability values less than this, and low inflows from the remainder of the intervals which all exceed 5E-6 cm/s. A plotted log of the permeability results for each tested interval is shown on Figure 4.20.

At the end of the drilling program groundwater level measurements were conducted on all of the holes in the pit that contained 1" standpipe piezometers and 2" groundwater monitoring wells. In RCP03-267 and RCP03-285 water was frozen at the top of the standpipe, which was taken as the groundwater level. In general, the groundwater table in the Pit Area appears to be close to the ground surface, with the exception of RCP03-282, where the water was at a depth of 11 m below surface. Table 4.6 provides the results of the water level measurements.

SECTION 5.0 - WASTE DUMP AND PLANT SITE
GEOTECHNICAL CONDITIONS

5.1 GENERAL

In 2003, six test pits identified as TP-03-17 to TP-03-22 were excavated at the proposed Waste Dump Site and a further two, identified as TP-03-23 and TP-03-24, were excavated at the Plant Site. These complemented two test pits excavated in 1995 at the Waste Dump Site, which are identified as TP95-1 and TP95-2. The test pits were used to characterize and obtain samples of the overburden soils at these sites. Various views of the Waste Dump Site are shown in Photo's 6 to 8 of Appendix A, while Photo 9 gives an overall aerial view of the Plant Site. Logs of the 2003 and 1995 test pits are provided in Appendix G. Section 5.2 describes the overburden soils.

In addition to the test pits, two drill holes identified as DH-03-07 and DH-03-08 were drilled at the Waste Dump Site and a further two drill holes, identified as DH-03-05 and DH-03-06 were drilled at the Plant Site in 2003. The Waste Dump drill holes were both were both HQ and received 2" groundwater monitoring wells. The Plant Site holes were drilled HQ for DH-03-05 and NQ for DH-03-06 and received a 2" groundwater monitoring well and 1" standpipe piezometer respectively.

The locations of the test pits and drill holes are shown on Figure 5.1. Sections illustrating the generalized geology through the sites are provided on Figure 5.2. A summary of the drill holes is provided in Table 3.1 and detailed drill hole logs with geomechanical data are included in Appendix H. Section 5.3 describes the bedrock drilling.

Packer (Lugeon) permeability tests were not carried out in the Waste Dump or Plant Site holes but rising head tests were done in the 2" groundwater monitoring wells after their installation and completion. These were in drill holes DH-03-05, 07 and 08. Completion detail logs for the three 2" groundwater monitoring wells and one 1" standpipe piezometer (DH-03-06) are provided in Appendix F. The results of the rising head tests are presented in Table 4.5 and the calculation sheets for the tests are included in Appendix E. Section 5.4 describes the rising head test results.

5.2 OVERBURDEN SOILS

5.2.1 Waste Dump Site

The Waste Dump Site is on a glacially shaped plateau just to the north of, and at a similar elevation as, the Pit Area. The plateau slopes slightly to the south into an east-west valley that separates the Waste Dump Site from the Pit Area. The valley is at approximate elevation 1450 m while the plateau reaches above 1500 m at its north side.

The overburden soils at the Waste Dump Site were found to consist mostly of a thin organic surficial layer underlain by weathered rock. The depth of weathering is shallow and many of the test pits encountered hard bedrock (refusal) before the depth limit of the excavator was reached. In the few pits that did not reach refusal, blocky angular rock was encountered indicating that hard bedrock was not far below. The upper weathered materials generally consisted of reddish or brown sand with trace of silt and possibly some clay. The lower materials consisted of dark red to black angular rock pieces in some cases in a matrix of gravel, sand and silt. The depths of these materials ranged from approximately 0.2m to 5 m. One test pit, number TP-03-17, was excavated in the east-west drainage valley to the south of the plateau. At this location a sandy silty till was intersected with cobble sized particles in places. Till was also found near the area in TP95-1 in the 1995 Program. The groundwater table was intersected at a depth of 4 m in this test pit but weathered rock and bedrock was not encountered.

Laboratory index testing was carried on a bagged sample of the till from TP-03-17 and the results are summarized as follows:

- Moisture content 10 %,
- Gravel 40%, sand 45 %, silt 10 % and clay 5 %,
- Specific gravity 2.75.

The results of the tests are also listed in Table 5.1 and the test sheets are provided in Appendix I.

This till material may be suitable for constructing small confining berms or drainage training facilities around the waste dump. In addition, if sufficient quantities are available, it may be suitable as a cover material for zones of potentially acidic waste rock.

5.2.2 Plant Site

The area contemplated in the 2003 investigation for the possible Plant Site is located just to the southeast of the Pit Area, across a small creek valley. The site is on a saddle like plateau at approximate elevation 1450 m. The overburden soils were found to consist of a thin organic surficial layer underlain by a thin (1 to 3 m) layer of moderately dense to dense silty sandy till. In some areas the till may be deeper. In TP-03-23, excavated on the west side of the site, angular pieces of weathered rock were found to be commingled with the lower till below 3 m indicating that bedrock is not far below that. In TP-03-24, in the center of the site, the till was found to be 1 m thick and underlain by a blocky zone of angular weathered rock. Hard bedrock (refusal) was reached at 3.6 m. A small amount of water was observed seeping into this pit at a depth of 2 m and it is likely that at least a shallow perched groundwater table follows the rock surface.

A large bagged sample of till was extracted from TP-03-23 for laboratory index tests and these results are summarized as follows:

- Moisture content 16 %,
- Liquid Limit 30, Plastic Limit 21, Plasticity Index 9,
- Gravel 53%, sand 27 %, silt 12 % and clay 8 %,
- Specific gravity 2.72.

A Standard Proctor compaction test was carried out on the sample and yielded the following results:

- Optimum moisture content = 13.6 %,
- Maximum dry density = 1882 kg/cu.m.

A triaxial consolidated undrained shear strength test with pore pressure measurements was carried out on the above sample after compaction in the Standard Proctor mould.

Consolidation test pressures of 50, 100 and 200 kPa were utilized and the triaxial test gave the following results:

- effective friction angle (ϕ') 41.8°,
- effective cohesive strength (c') 21.1 kPa,
- dilatant stress path.

Prior to shearing in the first stage (50 kPa) of the triaxial test a constant head permeability test was carried out on the above sample. This test gave a result of 5E-8 cm/s, which indicates that the material, when compacted, has a very low permeability.

A complete summary of the soil testing results is provided in Table 5.1 and the test sheets are included in Appendix I.

5.3 BEDROCK DRILLING

The locations of the four non-oriented drill holes completed during the program are shown on Figure 5.1 and sections illustrating generalized geology are in Figure 5.2. A summary of the drill holes is provided in Table 3.1 and detailed drill hole logs with the geomechanical data are included in Appendix H. The general geological and geomechanical characteristics are described below for each drill hole.

5.3.1 Waste Dump Site

DH-03-07

Drillhole DH-03-07 was located in the southern area of the proposed Waste Dump Site, in the east-west drainage valley site described above. The drill hole was oriented at an azimuth of 0 degrees and an inclination of 60 degrees below the horizontal to collect geomechanical data, hydrogeological data and site condemnation data. The total length of the drill hole was 19 m.

The geology encountered in DH-03-07 was logged by RCDC geologists and comprised the following.

- 0 m to 9.1 m - overburden,
- 9.1 m to 18.9 m – Silty to sandy laminated volcanic sandstone with bedding 50 degrees to core axis.

Typical discontinuities consisted of joints with carbonate, oxide and clay infilling. RMR was generally fair (40 to 50%) and estimated UCS values were all strong (100 MPa).

DH-03-08

Drillhole DH-03-08 was located in the central area of the proposed Waste Dump Site. The drill hole was oriented at an azimuth of 170 degrees and an inclination of 60 degrees below the horizontal to collect geomechanical, hydrogeological data and site condemnation data. The total length of the drill hole was 16.8 m.

The geology encountered in DH-03-08 was logged by RCDC geologists and comprised the following stratigraphy.

- 0 m to 3.4 m - overburden,
- 3.4 m to 16.8 m – Silty to sandy laminated volcanic sandstone and tuffs.

Typical discontinuities consisted of joints with oxide and clay infilling. RMR was generally poor (24 to 42%) and estimated UCS values ranged from 5 to 80 MPa, with an average UCS of 27 MPa.

5.3.2 Plant Site

DH-03-05

Drillhole DH-03-05 was located in the western area of the proposed plant site. It was drilled vertically to a total length of 16.5 m to collect geomechanical, hydrogeological data and site condemnation data in bedrock.

The geology encountered in DH-03-05 was described by RCDC geologists and comprised the following:

- 0 m to 4.3 m - overburden,
- 4.3 m to 16.5 m – Argillaceous siltstone with finely laminated bedding at 70 degrees to core axis and carbonaceous jointing.

Typical discontinuities consisted of joints with clay, gouge and carbonate infilling with some identifiable slickensides. RMR was generally very poor (27 to 35%) and estimated UCS values ranged from 5 to 10 MPa, with an average estimated UCS of 7 MPa.

DH-03-06

Drill hole DH-03-06 was located in the eastern area of the proposed plant site and was drilled vertically to a total length of 18 m to collect geomechanical, hydrogeological data and site condemnation data in bedrock.

The geology encountered in DH-03-06 was logged by RCDC geologists and comprised the following.

- 0 m to 2.7 m - overburden,
- 2.7 m to 18 m – Argillaceous siltstone with finely laminated bedding at 70 to 75 degrees to core axis and carbonaceous jointing.

Typical discontinuities were joints with carbonate, clay and oxide infilling with some identifiable slickensides. RMR was generally poor (27 to 48%) and estimated UCS was 5 MPa for the hole.

5.4 HYDROGEOLOGICAL SUMMARY

5.4.1 Waste Dump Site

Groundwater level measurements in the 2” groundwater monitoring wells at the Waste Dump Site indicated that the water table was close to surface (1 to 3 m below ground level). The following paragraphs describe permeability tests carried out in the wells.

DH-03-07

A rising head test was completed in DH-03-07 in the 2" groundwater monitoring well completed between elevations 1448.3 m and 1445.2 m. The major rock unit associated with this hole is Lithic Sandstone, which had fair RMR. The calculated permeability of the completion zone was found to be at 4.6E-4 cm/s, which is relatively high.

DH-03-08

A rising head test was completed in DH-03-08 in the 2" groundwater monitoring well completed between elevations 1486 m and 1483 m. The major rock unit associated with this hole is also Lithic Sandstone, which had fair to poor RMR. The calculated permeability of the completion zone was found to be quite low at 4.0E-6 cm/s.

5.4.2 Plant Site

Similar to the Waste Dump Site, the measured water levels at the Plant Site were found to be close to surface. The following paragraphs describe the one permeability test carried out in the 2" groundwater monitoring well at this site.

DH-03-05

A rising head test was completed in DH-03-05 in the 2" groundwater monitoring well completed between elevations 1449 m and 1445.5 m. The major rock unit associated with this hole is Argillaceous Siltstone, which was highly fractured with low recovery and RMR. The calculated permeability of the completion zone was found to be 6.0E 5 cm/s.

SECTION 6.0 - TAILINGS STORAGE FACILITY
GEOTECHNICAL CONDITIONS

6.1 GENERAL

A total of 7 geotechnical drill holes and 32 test pits have been completed in two geotechnical investigation programs (1995 and 2003) at the currently planned site of the Tailings Storage Facility. The drill holes included 3 in 1995 and 4 in 2003 while the test pits included 16 in 1995 and 16 in 2003. The 1995 drill holes are identified as BH95-01 to BH95-03 while the 2003 drill holes are identified as DH03-01 to DH03-04. The 1995 test pits are numbered TP95-1 to TP95-2 and the 2003 test pits are numbered TP-03-01 to TP-03-24. Table 3.1 gives a summary of the drill holes while Table 3.2 summarizes the 2003 test pits. Figures 6.1 and Figure 6.2 show the locations of the drill holes and test pits from both programs. Drilling and test pit logs from both programs are provided in Appendices J and G respectively. Photos 10 to 24 in Appendix J provide various aerial views as well as selected drilling and test pits images from the Tailings Storage Facility taken during the 2003 investigation program. Photos of the individual test pits are provided on the test pit logs in Appendix G. The location of the TSF is show on Figure 3.1.

6.1.1 Location and Topography

The site of the currently planned Tailings Storage Facility is in a deep and moderately wide “Y” shaped valley approximately 3.5 km northeast of, and 300 m below, the deposit. The valley consists of a main arm that runs approximately north to south and a secondary arm that branches off to the northeast near from the southern end of the main arm. The main arm drains both to the north and south, and the divide is located two thirds of the way towards the north end. The elevation of the divide is approximately 1110 m and the elevations at the planned dam sites at either end (North and South Dams) are just slightly below this. Through the main arm the drainage is poor as the gradients are low. Several small to modest size ponds and swamps have developed in the valley bottom and most are due to beaver dams.

The northeast arm drains towards the southwest into the main arm. The planned dam site at the northeast end (Northeast Dam) is at approximate elevation 1165 m and is on a height of land. Drainage in this valley is also poor and the bottom contains several swamps.

6.1.2 Geomorphology and Terrain

The valley contains deep deposits of alluvial and glaciofluvial sediments and till overlying bedrock. Glacial erratic, in some cases up to a few metres in size, are also be found across the surface indicating that significant glacial outflows have taken place at the site. Attempts were made in 1995 and 2003 to drill completely through the overburden into bedrock in order to characterize the rock and condemn the site, however in both programs the fly rigs used were unable to do this. The deepest hole (DH-03-04) was drilled to 77 m and was terminated at that depth due to jamming of the rods.

On the west side of the main arm of the Tailings Storage Facility the natural rock slopes are moderately steep at approximately 20 degrees, but they become steeper at higher elevations. On the east side of the main arm the rock slopes are approximately 15 degrees. In the northeast arm the slopes are shallower, at around 10 to 15 degrees. The overburden deposits extend up the side slopes to varying elevations as evidenced by the locations of the test pits on the contour maps (eg. Figure 6.2). At the south end of the site (South Dam location) test pits were excavated up to an elevation of 1190 m while in the center and north end of the main arm they were excavated up to 1140 m. Erosion of the overburden has created moderate to gentle side slopes on the surface of the overburden towards the center of each arm, and these slopes are in the order of 2 to 8 degrees.

A few runoff gullies drain the western and southeastern slopes of the Tailings Storage Facility valley. At the upper elevations in rock these gullies are generally well defined and take the form of narrow, incised valleys. At the lower elevations in overburden they are less well defined and much smaller as some of the flow likely percolates into the granular soil. In places some of the flow appears to reemerge as surface water in the valley bottom while the remainder continues as groundwater.

6.2 PROPOSED CONFIGURATION OF FACILITY

Tailings containment at the currently planned site will require 3 dams constructed at the south, north and northeast ends of the arms. These are identified as the South, North and Northeast Dams and were delineated on maps prior to the investigation. The Northeast Dam

is at a fairly high elevation and will not require construction for some time after mine start-up, and therefore the 2003 investigation focused only on the South and North Dams.

During the early stages of the investigation the South and North Dam sites were carefully inspected and in each case an alternate, and potentially better, site was identified to the south of the original one. At the North Dam the two alignments are approximately 200 m apart while at the South Dam they are 800 m apart. Both southerly alignments have narrower valley bottoms and at the South Dam the southerly alignment has a very narrow and well confined stream channel. In both cases it appears that the surface and foundation preparation requirements for the dams, and the development of adequate seepage containment and interception facilities, will be much easier at the southerly alignments. Figures 6.1 and 6.2 show the alternate alignments for the South and North Dams together with the Northeast Dam.

6.3 OVERBURDEN SOILS

6.3.1 Surficial Organic Layer

A thin layer of organic topsoil covers the site and was intersected in all test pits and drill holes. It consists of peat supporting grasses in the lower lying poorly drained areas while on the elevated, well drained surfaces it supports brush and larger trees. The topsoil is typically dark brown and naturally moist and contains some sand and gravel. The thickness of the topsoil in the Tailings Storage Facility valley generally varies from about 0.2 m to 1m and is thicker at the lower levels. In a few areas the topsoil exceeds 1 m. Roots may locally extend deeper.

6.3.2 Alluvial and Glaciofluvial Sand and Gravel

The majority of the near surface overburden in the valley consists of a thin blanket of granular alluvial and glaciofluvial materials that extend partially up the side slopes. Particle sizes vary from coarse gravel to fine sand and silt reflecting the different depositional environments in which they were laid down. All of the 2003 test pits in the Tailings Storage Facility, except TP-03-13, 14 and 16 (in the southeast region in till), were excavated into these materials. In 1995, test pits TP95-2, 4, 5, 5A, 6, 7, 8, 9, 10, 12, 12A, and 14 were excavated into these materials. The rest of the test pits were in till.

The 2003 drill hole DH-03-01 encountered this material only to a depth of 3 m and drill holes DH-03-3 and 04 encountered it to 5 and 6 m thick. In DH-03-02 it was absent. The 1995 drill hole BH95-3 intersected 3 m of this material at the surface while drill holes BH95-1 and 2 did not intersect it.

In general this material is not dense and provided poor sample recoveries in the drill holes. However, 1 split spoon sample was recovered from the bottom of this layer in DH-03-03 and 8 bagged samples were recovered from the 2003 test pits (TP-03-02, 03, 05, 06, 09, 11, 12 and 16), and these were tested for moisture content, specific gravity, particle size distribution, compaction characteristics, strength and permeability. The results are tabulated in Table 5.1 and test sheets are provided in Appendix I. The moisture contents of the samples were generally limited to between 4 and 7 percent although 3 samples with higher fines contents had values between 9 and 12 percent. Three specific gravity tests were done on these samples and yielded results between 2.68 and 2.8. The particle size distribution tests gave the following ranges of results:

- gravel (>#4 sieve) 70 to 40 %,
- sand (#4 to #200 sieve) 60 to 20 %,
- fines (<#200 sieve) 17 to 0.1 %.

Triaxial consolidated undrained shear strength tests with pore pressure measurements were carried out on two of the 8 samples (TP-03-03 and 11) after compaction in the Standard Proctor mould. They were compaction to a void ratio of 0.5 and at their with natural moisture contents. Consolidation test pressures of 50, 100 and 200 kPa were utilized and the triaxial tests gave the following results:

- effective friction angle (ϕ') 38.1° and 40.2°
- effective cohesive strength (c') 0 kPa and 10.5 kPa
- dilatant stress paths

Prior to shearing in the first stage (50 kPa) of the triaxial tests a constant head permeability test was carried out on each sample. These tests gave identical results of $2E-3$ cm/s, which indicates that the material is free draining.

A complete summary of the soil testing results is provided in Table 5.1 and the test sheets are included in Appendix I.

6.3.3 Glacial Till

Dense glacial till is exposed at surface in the southeastern region (around the left abutment of the South Dam) of the Tailings Storage Facility valley and underlies or is interlayered with the thin sand and gravel deposit described above over much of the remainder of the site. Where till was encountered at the surface, 2003 drill hole DH-03-02 passed through 5 m of it and 1995 drill holes BH95-1 and 2 passed through 2.5 and 3 m respectively. Where till was buried beneath sand and gravel, drill hole BH95-1 penetrated it between 7 m and 15 m (after passing through 4.5 m of sand and gravel below the surficial till described above). Drill holes DH-03-03 and 04 intersected buried till at depths of 6 m and remained in till for lengths of 24 and 11 m respectively while 1995 drill hole BH95-3 encountered till from depths of 3 to 12 m and 17 to 20 m. It is interesting to note that till was not encountered in 2003 drill hole DH-03-01.

In general the till was dense and hard. SPT blow counts of 57 to 99 were obtained from DH-03-03 and good sample recovery was achieved. Four bagged sample of cored till were recovered from the 2003 drill holes DH-03-02, 03 and 04 of which 3 were tested for selected index parameters. In addition bagged samples were recovered from 2003 test pits TP-03-13 and 14 for index, compaction, strength and permeability testing. The moisture contents of the till samples from the drill holes were between 6 and 7 % while those from the test pits were higher at 14 to 17 %. One specific gravity tests was done and yielded a value of 2.75. The particle size distribution tests gave the following ranges of results:

- gravel (>#4 sieve) 40 to 15 %,
- sand (#4 to #200 sieve) 38 to 26 %,
- silt (#200 sieve to 0.002 mm) 32 to 13 %,
- clay (<0.002 mm) 20 to 11 %.

A Standard Proctor compaction test was carried out on 1 sample (TP-03-14) and yielded the following results:

- Optimum moisture content = 8.4 %,
- Maximum dry density = 2119 kg/cu.m.

A triaxial consolidated undrained shear strength test with pore pressure measurements was carried out on the above sample after compaction in the Standard Proctor mould. Consolidation test pressures of 50, 100 and 200 kPa were utilized and the triaxial test gave the following results:

- effective friction angle (ϕ') 40.3°,
- effective cohesive strength (c') 8.6 kPa,
- dilatant stress path.

Prior to shearing in the first stage (50 kPa) of the triaxial test a constant head permeability test was carried out on the above sample. This test gave a result of 1E-7 cm/s, which indicates that the material, when compacted, has a very low permeability.

A complete summary of the soil testing results is provided in Table 5.1 and the test sheets are included in Appendix I.

6.3.4 Deep Sand with Silt

Consolidated, moderately dense to very dense sand is present below the till layer over the complete site (in drill hole DH-03-01 where till was not intersected this unit appears to come to the surface). This layer was fully penetrated in only 1 drill hole from both the 1995 and 2003 programs (DH-03-03) where an underlying till layer was encountered at a depth of 60 m.

SPT blow counts of 21 to 100 were achieved in drill holes DH-03-01 and DH-03-03. These data indicate that the material is very dense. The value of 21, which was by far the lowest, was in DH-03-01 just above a section of lost core. The low value may be the result of a wash out from the previous run.

Eight undisturbed sleeve and 2 split spoon samples of the deep sand and silt were recovered from 2003 drill holes DH-03-01, 02, 03 and 04 and 5 were tested for selected index parameters. Two of the sleeve samples were also tested for strength and permeability parameters. The moisture contents of the samples were between 9 and 25 percent with 3 of the 5 between 24 and 25 percent. Two specific gravity tests were done and yielded value of 2.71 and 2.78. The particle size distribution tests gave the following ranges of results:

- gravel (>#4 sieve) 27 to 0 % with 4 of the 5 results less than 3 %,
- sand (#4 to #200 sieve) 93 to 40 % with 4 of the 5 results greater than 70 %,
- fines (<#200 sieve) 34 to 7 % with 4 of the 4 results greater than 15 %.

Two triaxial consolidated undrained shear strength tests with pore pressure measurements were carried out on undisturbed sleeve samples from drill holes DH-03-02 and 03. Consolidation test pressures of 50, 100 and 200 kPa were utilized and the triaxial tests gave the following results:

- effective friction angle (ϕ') 38.2° to 38.4°,
- effective cohesive strength (c') 13.9 kPa to 19.2 kPa
- dilatant behavior.

Prior to shearing in the first stage (50 kPa) of the triaxial tests constant head permeability tests were carried out on the samples. These tests gave result of 1E-3 and 9E-4 cm/s, which indicates that the material is free draining.

A complete summary of the soil testing results is provided in Table 5.1 and the test sheets are included in Appendix I.

6.4 CONSTRUCTION MATERIALS

The dams in the Tailings Storage Facility are expected to be earthen embankments constructed out of locally obtained overburden soils. Most likely they will contain a low permeable till core with outer sand and gravel shells. In general, these materials are readily available at the site but care will be required to balance the fill requirements for each type of material in each stage of construction with a suitable borrow area. The borrow areas should

also be located above the bottom of the valley so that the materials are not excessively wet. For stages 2 and onward, the borrow areas must be above the tailings levels or outside the facility.

6.5 HYDROGEOLOGY

Groundwater levels in the soils at the Tailings Storage Facility were measured in 1" standpipe piezometers and 2" groundwater monitoring wells in 3 of 4 drill holes. In 1995, water levels were also measured in the 1 of the 3 drill holes completed that year. The results can be summarized as follows:

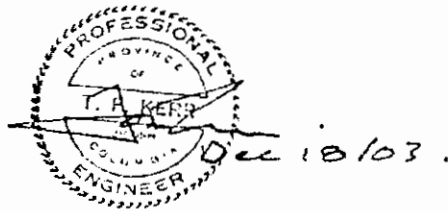
- DH-03-01, 2" groundwater monitoring well, depth to groundwater is 13.32m below surface,
- DH-03-02, 1" standpipe piezometer, depth to groundwater is 9.65m below surface,
- DH-03-03, 2" groundwater monitoring well, artesian,
- DH-03-04, 1" standpipe piezometer, groundwater level not measured, found to be in dry condition during the drilling process,
- BH95-1, 1.5" standpipe piezometer, groundwater is 1.8m below surface in Aug 1995,
- BH95-2, 1.5" standpipe piezometer, groundwater level not measured,
- BH95-3, 1.5" standpipe piezometer, groundwater level not measured.

One rising head permeability test was conducted on DH-03-01 in the Deep Sand with Silt unit. This test gave a result of $3E-5$ cm/s, which indicates that the material has a modest permeability. The permeability test results are tabulated in Table 4.5 and the test calculation sheet is in Appendix E.

SECTION 7.0 – CERTIFICATION

This report was prepared and approved by the undersigned.

Prepared by: Alvin Tong, E.I.T. Dec 13, 2003 Grahame Metcalfe, E.I.T. Dec 18, 2003
Staff Engineer Staff Engineer



Approved by: _____
Tom F. Kerr, P.Eng.
Vice-President

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TABLE 3.1

**BC METALS CORPORATION
RED CHRIS DEVELOPMENT CO. LTD.
RED CHRIS PROJECT**

**2003 GEOTECHNICAL INVESTIGATIONS
DRILL HOLE SUMMARY (INCLUDING 1995 PROGRAM)**

Print: 1:20/2004 12:04
Revised: 12/08/2003

Drill Hole ID	Location	Northing (m)	Easting (m)	Collar Elevation (m)	Hole Length (inclined where applicable) (m)	Drill Size	Azimuth (Deg)	Dip (Deg)	Groundwater Monitoring Installation	Oriented Core	Date Started	Date Completed
RCP03-262	Pit Area	100401	50825	1510	400.0	NQ	180	60	none	yes	Oct. 01, 2003	Oct. 05, 2003
RCP03-267	Pit Area	100302	50775	1510	417.4	HQ, NQ	0	60	2" Well	yes	Oct. 06, 2003	Oct. 10, 2003
RCP03-272	Pit Area	100475	51024	1491	200.0	NQ	90	60	none	yes	Oct. 10, 2003	Oct. 12, 2003
RCP03-275	Pit Area	100524	50700	1522	222.3	NQ	330	53	1" Piezo	yes	Oct. 12, 2003	Oct. 13, 2003
RCP03-278	Pit Area	100100	50750	1496	362.2	NQ	0	63	none	yes	Oct. 14, 2003	Oct. 19, 2003
RCP03-282	Pit Area	100094	50750	1496	93.6	NQ	150	60	1" Piezo	yes	Oct. 19, 2003	Oct. 21, 2003
RCP03-285	Pit Area	100150	49901	1537	200.9	NQ	315	60	1" Piezo	yes	Oct. 21, 2003	Oct. 22, 2003
RCP03-286	Pit Area	100040	49926	1533	350.3	NQ	180	60	none	yes	Oct. 23, 2003	Oct. 25, 2003
RCP03-289	Pit Area	99991	50319	1530	251.5	NQ	165	60	none	yes	Oct. 25, 2003	Oct. 27, 2003
DH-03-01	Tailings Storage Facility	6397645	455920	1120	36.3	HQ	0	90	2" Well	no	Oct. 17, 2003	Oct. 19, 2003
DH-03-02	Tailings Storage Facility	6397434	456173	1125	34.8	HQ	0	90	1" Piezo	no	Oct. 20, 2003	Oct. 21, 2003
DH-03-03	Tailings Storage Facility	6399947	456611	1106	60.7	HQ	0	90	2" Well	no	Oct. 22, 2003	Oct. 23, 2003
DH-03-04	Tailings Storage Facility	6396947	455969	1111	77.2	HQ	0	90	1" Piezo	no	Oct. 25, 2003	Oct. 26, 2003
DH-03-05	Plant Site	6395503	453297	1456	16.5	HQ	0	90	2" Well	no	Oct. 28, 2003	Oct. 28, 2003
DH-03-06	Plant Site	6395489	453700	1460	18.0	NQ	0	90	1" Piezo	no	Oct. 29, 2003	Oct. 29, 2003
DH-03-07	Waste Dump Site	6396672	452444	1460	19.0	HQ	0	60	2" Well	no	Oct. 29, 2003	Oct. 30, 2003
DH-03-08	Waste Dump Site	6397580	452548	1495	17.0	HQ	170	60	2" Well	no	Oct. 30, 2003	Oct. 30, 2003
BH95-01	Tailings Storage Facility	⁽²⁾ 6396400	⁽²⁾ 455400	N/A	24.4	BQ	0	90	1.5" Piezo	no	Aug. 29, 1995	Aug. 30, 1995
BH95-02	Tailings Storage Facility	⁽²⁾ 6399100	⁽²⁾ 458700	N/A	13.7	BQ	0	90	1.5" Piezo	no	Aug. 31, 1995	Sept. 1, 1995
BH95-03	Tailings Storage Facility	⁽²⁾ 6400600	⁽²⁾ 456600	N/A	22.9	BQ	0	90	1.5" Piezo	no	Sept. 2, 1995	Sept. 2, 1995

Notes:

- 1.) The coordinates for the Pit drill holes are in mine grid.
- 2.) The coordinates for the drill holes at the Tailings Storage Facility, Plant Site and Waste Dump Site are in UTM. The 2003 drill holes were measured in the field with a hand held GPS and are approximate only.

TABLE 3.2

BC METAL CORPORATION
RED CHRIS DEVELOPMENT CO. LTD.
RED CHRIS PROJECT

2003 GEOTECHNICAL INVESTIGATION
TEST PIT SUMMARY (INCLUDING 1995 PROGRAM)

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Revised: Dec 11, 2003

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Test Pit ID	Location	Northing ⁽¹⁾ (m)	Easting ⁽¹⁾ (m)	Elevation (m)	Pit Depth (m)
TP-03-01	Tailings Storage Facility	6397194	455665	1160	4.8
TP-03-02	Tailings Storage Facility	6397369	455997	1135	3.8
TP-03-03	Tailings Storage Facility	6397461	456071	1118	4.1
TP-03-04	Tailings Storage Facility	6397583	455893	1127	3.6
TP-03-05	Tailings Storage Facility	6398279	456068	1136	4.1
TP-03-06	Tailings Storage Facility	6398908	456207	1136	5.0
TP-03-07	Tailings Storage Facility	6398868	456427	1117	4.7
TP-03-08	Tailings Storage Facility	6398730	456560	1130	4.4
TP-03-09	Tailings Storage Facility	6399925	456475	1110	4.0
TP-03-10	Tailings Storage Facility	6400016	456554	1108	3.7
TP-03-11	Tailings Storage Facility	6399986	456648	1100	3.8
TP-03-12	Tailings Storage Facility	6399695	456624	1104	4.0
TP-03-13	Tailings Storage Facility	6397482	456365	1125	4.0
TP-03-14	Tailings Storage Facility	6397898	456623	1124	2.7
TP-03-15	Tailings Storage Facility	6397892	456839	1137	3.6
TP-03-16	Tailings Storage Facility	6397329	456323	1135	4.3
TP-03-17	Waste Dump Site	6396580	452280	1463	4.3
TP-03-18	Waste Dump Site	6397221	452282	1495	3.9
TP-03-19	Waste Dump Site	6398422	452075	1514	1.3
TP-03-20	Waste Dump Site	6398643	452403	1503	4.0
TP-03-21	Waste Dump Site	6398393	453160	1530	4.0
TP-03-22	Waste Dump Site	6398643	452403	1503	1.6
TP-03-23	Plant Site	6395567	453145	1466	3.9
TP-03-24	Plant Site	6395562	453430	1459	3.6
TP95-1	Waste Dump Site	6397090	456580	N/A	4.2
TP95-2	Waste Dump Site	6396950	453180	N/A	2.5
TP95-3	Tailings Storage Facility	6397245	455450	N/A	3.4
TP95-4	Tailings Storage Facility	6396940	455835	N/A	4.6
TP95-5	Tailings Storage Facility	6397815	456015	N/A	6.4
TP95-6	Tailings Storage Facility	6398565	456090	N/A	5.7
TP95-7	Tailings Storage Facility	6399550	456170	N/A	6.4
TP95-8	Tailings Storage Facility	6400140	456430	N/A	5.7
TP95-9	Tailings Storage Facility	6400890	456580	N/A	4.5
TP95-10	Tailings Storage Facility	6398570	456550	N/A	5.9
TP95-11	Tailings Storage Facility	6398596	457845	N/A	4.8
TP95-12	Tailings Storage Facility	6398700	458240	N/A	5.2
TP95-13	Tailings Storage Facility	6398125	457930	N/A	5.4
TP95-14	Tailings Storage Facility	6397820	457370	N/A	3.7
TP95-15	Tailings Storage Facility	6397670	456570	N/A	3.7
TP95-16	Tailings Storage Facility	6397010	456270	N/A	4.3

Note:

- 1.) 2003 testpit coordinates are on UTM grid and were measured by hand held GPS (approximate only).
- 2.) 1995 test pits not surveyed. Please refer to Figure 3.1 for elevation.

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TABLE 3.3

BC METALS CORPORATION
RED CHRIS DEVELOPMENT CO. LTD.
RED CHRIS PROJECT

2003 GEOTECHNICAL INVESTIGATIONS
SUMMARY OF DOWN HOLE SURVEY

Revised Dec 10, 2003

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Print 12/15/2003 8:29

Drill Hole ID	⁽¹⁾ Depth Measured (m)	⁽¹⁾ Azimuth (Deg)	⁽¹⁾ Dip (Deg)	Traverse	Depth From (m)	Depth To (m)
RCP03-262	0.0	180	60	1	0.0	4.6
	9.1	185	-61	2	4.6	50.3
	91.4	189	-62	3	50.3	137.2
	182.9	184	-61	4	137.2	228.6
	274.3	187	-62	5	228.6	320.0
	365.8	187	-63	6	320.0	365.8
RCP03-267	0.0	0	-60	1	0.0	56.2
	112.5	359	-61	2	56.2	143.0
	173.4	359	-62	3	143.0	203.9
	234.4	0	-63	4	203.9	264.9
	295.4	1	-62	5	264.9	325.8
	356.3	3	-62	6	325.8	386.8
RCP03-272	0.0	90	-60	1	0.0	5.9
	11.9	90	-60	2	5.9	37.8
	63.7	90	-60	3	37.8	94.2
	124.7	91	-60	4	94.2	136.7
	148.7	92	-60	5	136.7	174.3
	200.0	92	-61	6	174.3	200.0
RCP03-275	0.0	330	-53	1	0.0	4.4
	8.8	329	-53	2	4.4	24.1
	39.3	330	-53	3	24.1	69.8
	100.3	332	-54	4	69.8	130.8
	161.2	333	-54	5	130.8	191.7
	222.2	335	-54	6	191.7	222.2
RCP03-278	0.0	0	-63	1	0.0	7.5
	14.9	357	-63	2	7.5	37.8
	60.7	357	-64	3	37.8	91.1
	121.6	356	-65	4	91.1	152.1
	182.6	356	-66	5	152.1	213.1
	243.5	355	-66	6	213.1	274.2
	304.8	358	-67	7	274.2	333.5
	362.1	359	-67	8	333.5	362.1
RCP03-282	0.0	150	-60	1	0.0	4.4
	8.8	146	-59	2	4.4	45.4
	82.0	149	-59	3	45.4	82.0
	200.9	149	-59	4	82.0	200.9
RCP03-285	0.0	315	-60	1	0.0	4.4
	8.8	318	-60	2	4.4	43.9
	79.0	319	-61	3	43.9	109.5
	139.9	320	-61	4	109.5	170.4
	200.9	⁽²⁾ 10.3	-61	5	170.4	200.9
RCP03-286	0.0	180	-60	1	0.0	4.4
	8.8	177	-61	2	4.4	27.1
	45.4	177	-62	3	27.1	75.9
	106.4	178	-62	4	75.9	136.9
	167.4	181	-62	5	136.9	197.9
	228.4	180	-63	6	197.9	258.8
	289.3	183	-63	7	258.8	319.8
	350.3	183	-63	8	319.8	350.3
RCP03-289	0.0	165	-60	1	0.0	4.4
	8.8	166	-60	2	4.4	51.5
	94.2	166	-61	3	51.5	139.9
	185.7	168	-61	4	139.9	217.7
	249.7	169	-61	5	217.7	249.7

Notes:

- 1.) Downhole survey data provided by RCDC.
- 2.) Not used in Traverse Calculations.

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TABLE 4.1

BC METALS CORPORATION
RED CHRIS DEVELOPMENT CO. LTD.
RED CHRIS PROJECT

2003 GEOTECHNICAL INVESTIGATIONS
POINT LOAD TEST SUMMARY

M:\110100159\01\AR\Report\Tables\Table 4.1 - Summary of on-site point load testing.xls\PLT

Revised December 10, 2003
Page 1115/2004, 14 50

Drill Hole ID	Location	Down Hole Length (m)	Date Tested	Core Diameter (mm)	Gauge Value (psi)	Gauge Value (kPa)	Correlated UCS (MPa)	Strength Designation	Rock Type		
								Robertson 1987			
RCP03-262	Pit Area	214.66	02-Oct-03	45	700	4830	57	R4 - Hard Rock	Monzodiorite		
		222.20	02-Oct-03	45	1425	9833	116	R5 - Very Hard Rock	Monzodiorite		
		226.85	02-Oct-03	45	1500	10350	122	R5 - Very Hard Rock	Monzodiorite		
		236.02	02-Oct-03	45	1425	9833	116	R5 - Very Hard Rock	Monzodiorite		
		275.00	03-Oct-03	45	50	345	5	R1 - Very Soft Rock	Monzodiorite		
		285.30	03-Oct-03	45	1200	8280	97	R4 - Hard Rock	Monzodiorite		
		286.89	03-Oct-03	45	775	5348	63	R4 - Hard Rock	Monzodiorite		
		294.03	03-Oct-03	45	900	6210	73	R4 - Hard Rock	Monzodiorite		
		303.16	03-Oct-03	45	900	6210	73	R4 - Hard Rock	Monzodiorite		
		309.40	03-Oct-03	45	1300	8970	105	R5 - Very Hard Rock	Monzodiorite		
		328.30	04-Oct-03	45	1500	10350	122	R5 - Very Hard Rock	Monzodiorite		
		346.69	04-Oct-03	45	1000	6900	81	R4 - Hard Rock	Monzodiorite		
		354.94	04-Oct-03	45	1575	10868	128	R5 - Very Hard Rock	Monzodiorite		
		383.38	04-Oct-03	45	1125	7763	91	R4 - Hard Rock	Monzodiorite		
		374.08	04-Oct-03	45	700	4830	57	R4 - Hard Rock	Monzodiorite		
		RCP03-267	Pit Area	120.85	06-Oct-03	45	1175	8108	95	R4 - Hard Rock	Monzodiorite
				132.30	07-Oct-03	45	600	4140	49	R3 - Average Rock	Monzodiorite
141.30	07-Oct-03			45	400	2760	32	R3 - Average Rock	Monzodiorite		
141.50	07-Oct-03			45	250	1725	21	R2 - Soft Rock	Monzodiorite		
160.90	07-Oct-03			45	150	1035	14	R2 - Soft Rock	Monzodiorite		
179.70	07-Oct-03			45	500	3450	41	R3 - Average Rock	Monzodiorite		
189.49	07-Oct-03			45	400	2760	32	R3 - Average Rock	Monzodiorite		
195.66	07-Oct-03			45	225	1553	20	R2 - Soft Rock	Monzodiorite		
200.30	07-Oct-03			45	250	1725	21	R2 - Soft Rock	Monzodiorite		
207.11	07-Oct-03			45	1825	12593	147	R5 - Very Hard Rock	Monzodiorite		
219.03	07-Oct-03			45	1200	8280	97	R4 - Hard Rock	Monzodiorite		
241.50	08-Oct-03			45	300	2070	25	R3 - Average Rock	Monzodiorite		
255.10	08-Oct-03			45	250	1725	21	R2 - Soft Rock	Monzodiorite		
255.50	08-Oct-03			45	600	4140	49	R3 - Average Rock	Monzodiorite		
267.13	08-Oct-03			45	725	5003	59	R4 - Hard Rock	Monzodiorite		
278.43	08-Oct-03			45	2125	14663	169	R5 - Very Hard Rock	Monzodiorite		
283.04	08-Oct-03			45	1725	11903	139	R5 - Very Hard Rock	Monzodiorite		
304.22	08-Oct-03			45	700	4830	57	R4 - Hard Rock	Monzodiorite		
318.62	08-Oct-03			45	1900	13110	152	R5 - Very Hard Rock	Monzodiorite		
333.80	09-Oct-03			45	750	5175	61	R4 - Hard Rock	Monzodiorite		
353.20	09-Oct-03			45	1100	7590	89	R4 - Hard Rock	Monzodiorite		
368.40	09-Oct-03			45	250	1725	21	R2 - Soft Rock	Monzodiorite		
371.33	09-Oct-03			45	1800	12420	145	R5 - Very Hard Rock	Monzodiorite		
383.59	09-Oct-03	45	1750	12075	141	R5 - Very Hard Rock	Monzodiorite				
RCP03-272	Pit Area	43.18	11-Oct-03	45	850	5865	69	R4 - Hard Rock	Monzodiorite		
		87.30	11-Oct-03	45	100	690	9	R2 - Soft Rock	Monzodiorite		
		93.60	11-Oct-03	45	1850	12765	149	R5 - Very Hard Rock	Monzodiorite		
		93.80	11-Oct-03	45	1600	11040	130	R5 - Very Hard Rock	Monzodiorite		
		122.00	11-Oct-03	45	400	2760	32	R3 - Average Rock	Monzodiorite		
		138.40	11-Oct-03	45	450	3105	37	R3 - Average Rock	Monzodiorite		
		138.70	11-Oct-03	45	600	4140	49	R3 - Average Rock	Monzodiorite		
		148.95	11-Oct-03	45	750	5175	61	R4 - Hard Rock	Monzodiorite		
		155.02	11-Oct-03	45	1075	7418	87	R4 - Hard Rock	Volcanic		
		156.89	11-Oct-03	45	1250	8625	101	R5 - Very Hard Rock	Volcanic		
		RCP03-275	Pit Area	20.60	12-Oct-03	45	2400	16560	190	R5 - Very Hard Rock	Volcanic
41.60	12-Oct-03			45	450	3105	37	R3 - Average Rock	Volcanic		
42.00	12-Oct-03			45	950	6555	77	R4 - Hard Rock	Volcanic		
94.73	12-Oct-03			45	1100	7590	89	R4 - Hard Rock	Volcanic		
101.30	12-Oct-03			45	2125	14663	169	R5 - Very Hard Rock	Volcanic		
109.32	12-Oct-03			45	2200	15180	175	R5 - Very Hard Rock	Volcanic		
115.00	12-Oct-03			45	2475	17078	196	R5 - Very Hard Rock	Volcanic		
117.45	12-Oct-03			45	3175	21908	249	R5 - Very Hard Rock	Volcanic		
130.18	12-Oct-03			45	650	4485	53	R4 - Hard Rock	Volcanic		
157.20	13-Oct-03			45	1200	8280	97	R4 - Hard Rock	Volcanic		
181.80	13-Oct-03			45	400	2760	32	R3 - Average Rock	Volcanic		
182.00	13-Oct-03			45	300	2070	25	R3 - Average Rock	Volcanic		
206.75	13-Oct-03			45	1025	7073	83	R4 - Hard Rock	Volcanic		
214.46	13-Oct-03			45	775	5348	63	R4 - Hard Rock	Volcanic		
RCP03-278	Pit Area			140.66	15-Oct-03	45	1100	7590	89	R4 - Hard Rock	Monzodiorite
		152.95	15-Oct-03	45	975	6728	79	R4 - Hard Rock	Monzodiorite		
		154.87	15-Oct-03	45	1150	7935	93	R4 - Hard Rock	Monzodiorite		
		155.22	15-Oct-03	45	875	6038	71	R4 - Hard Rock	Monzodiorite		
		197.10	16-Oct-03	45	100	690	9	R2 - Soft Rock	Monzodiorite		
		217.22	16-Oct-03	45	700	4830	57	R4 - Hard Rock	Monzodiorite		
		264.30	16-Oct-03	45	650	4485	53	R4 - Hard Rock	Monzodiorite		
		283.30	17-Oct-03	45	700	4830	57	R4 - Hard Rock	Monzodiorite		
		313.80	17-Oct-03	45	1400	9660	114	R5 - Very Hard Rock	Monzodiorite		
		360.50	18-Oct-03	45	250	1725	21	R2 - Soft Rock	Monzodiorite		
RCP03-282	Pit Area	32.50	19-Oct-03	44	400	2760	34	R3 - Average Rock	Argillaceous Siltstone		
		49.90	20-Oct-03	45	50	345	5	R1 - Very Soft Rock	Argillaceous Siltstone		
		62.20	20-Oct-03	45	50	345	5	R1 - Very Soft Rock	Argillaceous Siltstone		
		81.25	20-Oct-03	45	1500	10350	122	R5 - Very Hard Rock	Chert Conglomerate		
RCP03-285	Pit Area	100.20	22-Oct-03	45	200	1380	18	R2 - Soft Rock	Monzodiorite		
		122.80	22-Oct-03	45	100	690	9	R2 - Soft Rock	Monzodiorite		
		123.20	22-Oct-03	45	150	1035	14	R2 - Soft Rock	Monzodiorite		
		166.10	22-Oct-03	45	300	2070	25	R3 - Average Rock	Monzodiorite		
		172.50	22-Oct-03	45	200	1380	18	R2 - Soft Rock	Monzodiorite		
		187.70	22-Oct-03	44	850	5865	71	R4 - Hard Rock	Monzodiorite		
RCP03-286	Pit Area	33.90	23-Oct-03	45	200	1380	18	R2 - Soft Rock	Monzodiorite		
		56.40	23-Oct-03	45	750	5175	61	R4 - Hard Rock	Monzodiorite		
		93.00	23-Oct-03	44	700	4830	59	R4 - Hard Rock	Monzodiorite		
		93.50	23-Oct-03	44	200	1380	18	R2 - Soft Rock	Monzodiorite		
		129.80	23-Oct-03	44	900	6210	76	R4 - Hard Rock	Monzodiorite		
		153.40	24-Oct-03	45	700	4830	57	R4 - Hard Rock	Monzodiorite		
		188.10	24-Oct-03	45	800	5520	65	R4 - Hard Rock	Monzodiorite		
		217.75	24-Oct-03	45	500	3450	41	R3 - Average Rock	Monzodiorite		
		251.70	24-Oct-03	45	1500	10350	122	R5 - Very Hard Rock	Monzodiorite		
		278.90	24-Oct-03	45	1500	10350	122	R5 - Very Hard Rock	Monzodiorite		
		306.00	25-Oct-03	45	1500	10350	122	R5 - Very Hard Rock	Monzodiorite		
		323.60	25-Oct-03	45	400	2760	32	R3 - Average Rock	Monzodiorite		
		324.00	25-Oct-03	45	800	5520	65	R4 - Hard Rock	Monzodiorite		
RCP03-289	Pit Area	82.80	26-Oct-03	45	200	1380	18	R2 - Soft Rock	Monzodiorite		
		108.00	26-Oct-03	45	300	2070	25	R3 - Average Rock	Monzodiorite		
		108.40	26-Oct-03	45	350	2415	29	R3 - Average Rock	Monzodiorite		
		130.60	26-Oct-03	45	800	5520	65	R4 - Hard Rock	Monzodiorite		
		163.95	26-Oct-03	45	1100	7590	89	R4 - Hard Rock	Monzodiorite		
		187.20	26-Oct-03	45	850	5865	69	R4 - Hard Rock	Monzodiorite		
		187.60	26-Oct-03	45	700	4830	57	R4 - Hard Rock	Monzodiorite		
		194.40	26-Oct-03	45	3200	22080	250	R6 - Extremely Hard Rock	Monzodiorite		
		215.30	27-Oct-03	45	1500	10350	122	R5 - Very Hard Rock	Monzodiorite		
		239.40	27-Oct-03	45	900	6210	73	R4 - Hard Rock	Monzodiorite		
DH-03-05 ⁽¹⁾	Plant Site	6.90	31-Oct-03	60	0	0	0	R0 - Extremely Soft Rock	Argillaceous Siltstone		
		15.10	31-Oct-03	60	0	0	0	R0 - Extremely Soft Rock	Argillaceous Siltstone		
DH-03-06	Plant Site	8.20	31-Oct-03	45	300	2070	25	R3 - Average Rock	Argillaceous Siltstone		
		13.20	31-Oct-03	45	850	5865	69	R4 - Hard Rock	Argillaceous Siltstone		
		14.60	31-Oct-03	45	575	3968	47	R3 - Average Rock	Argillaceous Siltstone		
DH-03-07	Waste Dump Site	10.60	31-Oct-03	60	2000	13800	112	R5 - Very Hard Rock	Volcanic Sandstone		
		11.90	31-Oct-03	60	1800	12420	101	R5 - Very Hard Rock	Volcanic Sandstone		
DH-03-08	Waste Dump Site	18.30	31-Oct-03	60	1900	13110	106	R5 - Very Hard Rock	Volcanic Sandstone		
		3.80	31-Oct-03	60	1400	9660	79	R4 - Hard Rock	Tuff		
		7.30	31-Oct-03	60	1000	6900	57	R4 - Hard Rock	Volcanic Sandstone		

1.) Zero psi denotes very low strength. Point load tester not sensitive enough to accurately measure very weak rock.

TABLE 4.2

**BC METALS CORPORATION
RED CHRIS DEVELOPMENT COMPANY LTD.
RED CHRIS PROJECT**

**2003 GEOTECHNICAL INVESTIGATIONS
SUMMARY OF UCS LAB RESULTS**

Print Dec/18/03 8:07:41
Rev'd Nov/25/03

M:\1101\00159\01\A\Report\Table Drafts\Table 4.2 - Summary of UCS Lab results.xls\UCS SUMMARY

Drill hole ID	Location	Sample Number	Down Hole Length (m)	Sample Diameter (mm)	Rock Type	UCS (MPa)	Young's Modulus (GPa)	Poisson's Ratio
RCP03-262	Pit Area	262-UCS1	216.6	45	Monzodiorite	17	n/a	n/a
		262-UCS2	290.0	45	Monzodiorite	107	n/a	n/a
		262-UCS3	352.2	45	Monzodiorite	49	n/a	n/a
RCP03-267	Pit Area	267-UCS1	141.1	45	Monzodiorite	13	n/a	n/a
		267-UCS2	255.2	45	Monzodiorite	82	n/a	n/a
		267-UCS3	281.4	45	Monzodiorite	121	n/a	n/a
		267-UCS4	370.5	45	Monzodiorite	101	25	0.13
RCP03-272	Pit Area	272-UCS1	93.7	45	Monzodiorite	51	n/a	n/a
		272-UCS2	138.5	45	Monzodiorite	85	n/a	n/a
		272-UCS3	155.8	45	Monzodiorite	103	n/a	n/a
RCP03-275	Pit Area	275-UCS1	41.8	45	Medium Grained Andesite	165	n/a	n/a
		275-UCS2	117.3	45	Medium Grained Andesite	148	n/a	n/a
		275-UCS3	181.9	45	Trachytic Tuff	31	n/a	n/a
RCP03-278	Pit Area	278-UCS1	155.0	44	Monzodiorite	14	n/a	n/a
RCP03-282	Pit Area	282-UCS1	72.6	45	Argillaceous Siltstone	17	6	n/a
RCP03-285	Pit Area	285-UCS1	123.0	45	Monzodiorite	30	11	n/a
RCP03-286	Pit Area	286-UCS1	93.3	45	Monzodiorite	32	n/a	n/a
		286-UCS2	323.8	45	Monzodiorite	30	n/a	n/a
RCP03-289	Pit Area	289-UCS1	108.2	45	Monzodiorite	120	n/a	n/a
		289-UCS2	187.3	45	Monzodiorite	72	23	0.15
DH-03-05	Plant Site	05-UCS1	6.7	61	Argillaceous Siltstone	144	n/a	n/a
DH-03-06	Plant Site	06-UCS1	8.1	45	Argillaceous Siltstone	33	15	0.12
DH-03-07	Waste Dump Site	07-UCS1	1.8	60	Volcanic Sandstone	64	8	n/a

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TABLE 4.3

BC METALS CORPORATION
RED CHRIS DEVELOPMENT COMPANY LTD.
RED CHRIS PROJECT

2003 GEOTECHNICAL INVESTIGATIONS
SUMMARY OF ON-SITE AND LAB DIRECT SHEAR TESTING

Print 12/18/2003 8:07
Revised Nov 14, 2003

M:\1103\00159\011\AR\Report\Table Drafts\Table 4.3 - Summary of on-site and lab direct shear testing.xls>Data

SUMMARY OF ON-SITE SHEAR TESTING													
Drill Hole ID	Sample Number	Depth (m)	Alpha (Deg)	Beta (Deg)	Aperature (mm)	RMR Jc	Infilling		Small Scale JRC	Slope (rise/run)	Date Tested	Phi (Deg)	Comments
							Type	Thickness					
RCP03-262	262-SS1	214.5	34	210	1.0	22	nil	0.0	14	0.2495	Oct. 5	14	little degradation of shearing surfaces - monzodiorite
	262-SS2	233.2	51	0	1.0	22	cpy	1.0	20	0.3693	Oct. 5	20	little degradation of shearing surfaces - monzodiorite
	262-SS3	288.7	45	60	1.0	22	nil	0.0	20	0.6236	Oct. 5	32	little degradation of shearing surfaces - monzodiorite
	262-SS4	344.0	40	65	1.0	22	chl, slk	1.0	1.5	0.4287	Oct. 5	23	moderate breaking of lower joint surface - monzodiorite
RCP03-267	267-SS1	114.7	72	240	1.0	20	nil	0.0	18	0.3252	Oct. 18	18	little degradation of shearing surfaces - monzodiorite
	267-SS2	180.0	58	295	1.0	20	nil	0.0	18	0.4365	Oct. 18	24	mild breaking of lower joint surface - monzodiorite
	267-SS3	206.1	48	95	1.0	20	nil	0.0	20	0.7015	Oct. 18	35	moderate breaking of lower joint surface - monzodiorite
	267-SS4	279.9	47	350	1.0	19	pyr	0.5	18	0.7795	Oct. 18	38	mild breaking of lower and upper joint surface - monzodiorite
RCP03-272	272-SS1	61.9	64	200	1.0	18	chl	0.5	16	0.5067	Oct. 18	27	mild breaking of lower and upper joint surface - monzodiorite
	272-SS2	107.9	58	210	1.0	18	qtz, ser	0.5	14	0.3508	Oct. 18	19	heavy breaking of lower joint surface (~50%) - monzodiorite
RCP03-275	275-SS1	32.1	60	15	0.5	18	ser, chl, qtz	1.0	15	0.3897	Oct. 27	21	heavy breaking of lower joint surface (~25%) - volcanics
	275-SS2	67.9	44	145	0.5	19	qtz, chl	1.0	16	0.4677	Oct. 27	25	mild breaking of lower and upper joint surface - volcanics
	275-SS3	222.7	49	25	0.5	16	qtz, chl	1.0	15	0.3118	Oct. 27	17	heavy breaking of lower joint surface (~30%) - volcanics
RCP03-282	282-SS1	71.8	n/a	n/a	0.5	14	carb	1.0	12	0.5067	Oct. 27	27	heavy breaking of joint surfaces (~50%) - argillaceous siltstone
RCP03-285	285-SS1	105.0	44	335	0.5	17	gyp	2.0	15	0.3501	Oct. 27	19	heavy breaking of joint surfaces (~40%) - monzodiorite
RCP03-286	286-SS1	46.6	56	130	0.5	15	qtz, ser	5.0	14	0.3118	Oct. 28	17	heavy breaking of lower joint surface (~30%) - monzodiorite
	286-SS2	189.4	54	350	0.5	17	ser, chl	1.0	15	0.4677	Oct. 28	25	CAL 1 taken at 190.13m, moderate breaking of both joint surfaces - monzodiorite
RCP03-289	289-SS1	101.8	29	110	0.5	16	ser, chl, py	1.0	16	0.3898	Oct. 28	21	moderate breaking of lower joint surface - monzodiorite
	289-SS2	194.6	n/a	n/a	0.5	16	sul	0.5	16	0.3897	Oct. 28	21	CAL 2 taken at 194.35m, moderate breaking of lower joint surface - monzo
SUMMARY OF LAB SHEAR TESTING													
RCP03-286	286-CAL1	190.1	n/a	n/a	0.5	18	qtz, ser	0.5	12	n/a	Nov. 24	37.7	little degradation of shearing surfaces - see report - monzodiorite
RCP03-289	289-CAL2	194.4	n/a	n/a	0.5	18	nil	0.5	7	n/a	Nov. 24	27.6	little degradation of shearing surfaces - see report - monzodiorite

TABLE 4.4

**BC METALS CORPORATION
RED CHRIS DEVELOPMENT CO. LTD.
RED CHRIS PROJECT**

**2003 GEOTECHNICAL INVESTIGATION
SUMMARY OF PRELIMINARY KINEMATIC DATA ON PIT AREA ROCKS**

Revised November 25, 2003
Print 12/18/2003 8:32

M:\110100159\01\A\Report\Table Drafts\Table 4.4 - Summary of Kinematic Data.xls>Data

Drill Hole ID	Geology	Set No.	Dip (Deg)	Dip Direction (Deg)	Number of Poles	Pole Concentration (%)
RCP03-262	Monzodiorite	1	78	35	525	4 to 5%
	Monzodiorite	2	73	323		4 to 5%
	Monzodiorite	3	55	298		4 to 5%
	Monzodiorite	4	45	188		3 to 4%
	Monzodiorite	5	51	114		3 to 4%
RCP03-267	Monzodiorite	1	76	187	538	4 to 5%
	Monzodiorite	2	68	122		5 to 6%
	Monzodiorite	3	50	273		4 to 5%
	Monzodiorite	4	71	232		4 to 5%
RCP03-272	Monzodiorite	1	15	231	192	5 to 6%
	Monzodiorite	2	75	235		4 to 5%
	Monzodiorite	3	66	291		4 to 5%
	Monzodiorite	4	57	163		3 to 4%
	Monzodiorite	5	44	339		3 to 4%
RCP03-275	Monzodiorite	1	90	152	377	5 to 6%
	Monzodiorite	2	70	111		5 to 6%
	Monzodiorite	3	34	209		4 to 5%
	Monzodiorite	4	76	221		4 to 5%
	Monzodiorite	5	42	37		3 to 4%
RCP03-278	Monzodiorite / Argillaceous Siltstone	1	72	126	210	4 to 5%
	Monzodiorite / Argillaceous Siltstone	2	90	174		5 to 6%
	Monzodiorite / Argillaceous Siltstone	3	75	249		4 to 5%
	Monzodiorite / Argillaceous Siltstone	4	52	306		6 to 7%
RCP03-282	Argillaceous Siltstone	1	56	85	17	20 to 22.5%
	Argillaceous Siltstone	2	65	284		15 to 17.5%
	Argillaceous Siltstone	3	68	248		10 to 12.5%
RCP03-285	Monzodiorite	1	70	92	36	7.5 to 9%
	Monzodiorite	2	60	20		7.5 to 9%
	Monzodiorite	3	29	321		7.5 to 9%
	Monzodiorite	4	61	217		9 to 10.5%
	Monzodiorite	5	90	188		6 to 7.5%
RCP03-286	Monzodiorite / Argillaceous Siltstone	1	90	357	316	4 to 5%
	Monzodiorite / Argillaceous Siltstone	2	62	295		4 to 5%
	Monzodiorite / Argillaceous Siltstone	3	76	58		4 to 5%
	Monzodiorite / Argillaceous Siltstone	4	76	22		4 to 5%
RCP03-289	Monzodiorite	1	90	350	252	4 to 5%
	Monzodiorite	2	45	257		5 to 6%
	Monzodiorite	3	86	292		4 to 5%
	Monzodiorite	4	74	316		4 to 5%
	Monzodiorite	5	90	12		4 to 5%

TABLE 4.5

**BC METALS CORPORATION
RED CHRIS DEVELOPMENT CO. LTD.
RED CHRIS PROJECT**

**2003 GEOTECHNICAL INVESTIGATIONS
SUMMARY OF PERMEABILITY TESTING**

Print Dec/18/03 8:07:59
Rev'd Dec 10/2003

M:\110110015901\A\Report\Table Drafts\Table 4.5 - Summary of Permeability Testing.xls\Summary

Drill Hole ID	Test No.	Test Type	Down Hole Depth		Collar Elevation (m)	Hole Inclination (Deg)	Elevation ⁽¹⁾		Location	Coefficient of Permeability (cm/s)	Comments
			from (m)	to (m)			from (m)	to (m)			
RCP03-262	1	Lugeon	124.7	173.8	1510.0	60	1402.0	1359.4	Pit Area	4E-05	Ovberburden 0- ,Altered Int 121-133, Monzo 133-163, Sheared Int 163-
	2	Lugeon	209.7	255.7	1510.0	60	1328.3	1288.5		2E-06	Sheared Monzo 209-213, Comp Monzo 113-255
	3	Lugeon	261.6	318.2	1510.0	60	1283.4	1234.4		9E-07	Monz 262-318
	4	Lugeon	322.6	400.4	1510.0	60	1230.6	1163.2		5E-06	Monz 322-400
RCP03-267	1	Lugeon	112.2	139.0	1510.1	60	1412.9	1389.7	Pit Area	7E-07	Ovb 0- ,Monz 100-139
	2	Lugeon	179.3	242.1	1510.1	60	1354.8	1300.4		7E-05	Monz 179-242
	3	Lugeon	243.2	292.3	1510.1	60	1299.4	1256.9		5E-07	Monz 243-292
	4	Lugeon	295.1	356.4	1510.1	60	1254.5	1201.4		2E-06	Monz 243-293
RCP03-272	1	Lugeon	26.8	88.1	1491.1	60	1467.9	1414.8	Pit Area	6E-05	Ovb 0-7, Monz 7-56, Sheared Monz 57-88
	2	Lugeon	87.8	147.9	1491.1	60	1415.1	1363.1		7E-05	Sheared Monz 87-147
	3	Lugeon	148.8	200.0	1491.1	60	1362.3	1317.9		3E-05	Broken Vol 148-160, Heav Sheared Monz 158-200
RCP03-275	1	Lugeon	23.8	60.7	1521.6	53	1502.6	1473.2	Pit Area	2E-04	Br rock 0-5, Volc 5-60
	2	Lugeon	63.4	130.5	1521.6	53	1471.0	1417.4		8E-05	Volc 63-130
	3	Lugeon	130.5	173.5	1521.6	53	1417.4	1383.1		4E-05	Volc 131-174, Highly Frac 170-171
	4	Lugeon	173.2	222.3	1521.6	53	1383.3	1344.1		1E-05	Volc 173-222
RCP03-276	1	Lugeon	182.3	261.9	1495.9	63	1333.5	1262.6	Pit Area	7E-06	Ovb 0-3, Arg 3-81, Sh Br Monz 81-262
	2	Lugeon	261.5	306.6	1495.9	63	1262.9	1222.7		1E-05	Sheared/Brecciated Monz 181-307
RCP03-283	1	Rising Head	62.4	65.4	1538.5	90	1476.1	1473.1	Pit Area	1E-05	Ovb 0- ,Monzo
RCP03-285	1	Lugeon	57.6	72.9	1537.1	60	1487.2	1473.9	Pit Area	4E-07	Ovb 0-6, Monzo S. Sh 57-72
	2	Lugeon	72.6	133.8	1537.1	60	1474.2	1421.2		1E-05	Sh/Br Monz 73-133
	3	Lugeon	133.8	200.9	1537.1	60	1421.2	1363.1		4E-07	Tuff Dyke 149-155, 162-163, Sh/Br Monz 133-200
RCP03-286	1	Lugeon	45.0	106.0	1532.7	60	1493.8	1440.9	Pit Area	9E-06	Ovb 0-4, Frac Monz 4-25, Monz less weath 25-68, Sh/Br Monz 68-106
	2	Lugeon	133.5	178.8	1532.7	60	1417.1	1377.9		1E-06	Sh/Br Monz 133-179
	3	Lugeon	207.0	267.9	1532.7	60	1353.5	1300.7		5E-07	Sh/Br Monz 206-268
	4	Lugeon	267.8	330.6	1532.7	60	1300.8	1246.4		5E-06	Sh/Br Monz 268-331
RCP03-289	1	Lugeon	39.0	85.1	1529.7	60	1495.9	1456.0	Pit Area	5E-06	Ovb 0-3, Sh/Br Monz 3-86
	2	Lugeon	100.0	160.9	1529.7	60	1443.1	1390.3		1E-05	Sh/Br Monz 86-160
	3	Lugeon	161.0	233.5	1529.7	60	1390.3	1327.5		3E-05	Sh/Br Monz 86-161
DH-03-01	1	Rising Head	12.1	15.2	1120.0	90	1107.9	1104.9	Tailings Storage Facility	3E-05	Sand with trace silt 3-15, Medium Sand with gravel 15-20
DH-03-05	1	Rising Head	7.2	10.3	1456.1	90	1448.9	1445.8	Plant Site	6E-05	Chert Con 0-5, 5-11 Broken /Weathered Arg
DH-03-07	1	Rising Head	13.4	16.4	1459.9	60	1448.3	1445.6	Waste Dump Site	5E-04	Sandy Till 0-9, 9-19 Sandstone
DH-03-08	1	Rising Head	10.1	13.1	1494.7	60	1486.0	1483.4	Waste Dump Site	4E-06	Ovb 0-2, Ch Congl 2-4, 4-5 Tuf, 5-8 Volc Sand, 8-11 Tuf, 11-17 V Sand

Notes:

1.) Downhole elevation calculated from original inclination, not adjusted drill hole survey.

TABLE 4.6

BC METALS CORPORATION
RED CHRIS DEVELOPMENT CO., LTD.

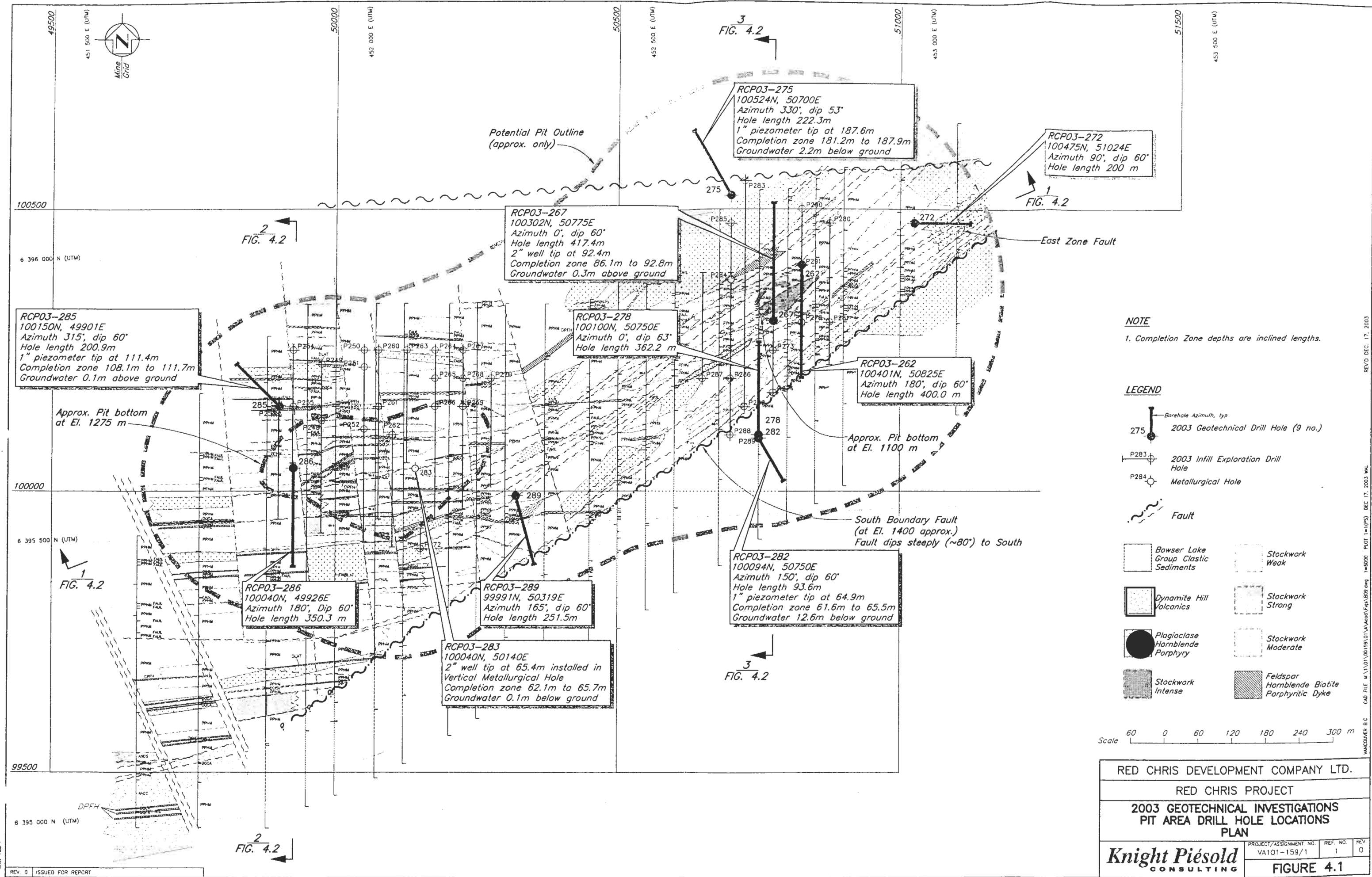
RED CHRIS PROJECT - 2003 GEOTECHNICAL SITE INVESTIGATION
SUMMARY OF PIEZOMETER AND WELL MEASUREMENTS ON NOVEMBER 2, 2003

Revised December 11, 2003
Print 12/18/2003 9:26

Drillhole ID	Location	Well/Piezo Type	⁽¹⁾ Piezo/ Well Length (m)	⁽²⁾ Stick-up (m)	Collar Elevation (m)	Sample/Test Date	Measured Depth to Water (m)	Elevation of Water Table (m)	Vertical Completion Zone		Completed In	Notes
									Top Elevation (m)	Bottom Elevation (m)		
RCP03-267	Pit Area	2" Well	92.5	0.55	1510.0	Nov. 2, 2003	0.25	1510.3	1436.0	1430.2	Monzodiorite	Well frozen, Waterra tubing not installed, no sample obtained
RCP03-275	Pit Area	1" Piezo	187.6	0.20	1521.6	Nov. 2, 2003	2.48	1519.8	1377.4	1372.0	Volcanic	
RCP03-282	Pit Area	1" Piezo	64.9	0.05	1459.6	Nov. 2, 2003	12.70	1484.6	1442.8	1439.5	Argillaceous Siltstone	
RCP03-283	Pit Area	2" Well	65.4	0.18	1539.0	Nov. 2, 2003	0.29	1538.9	1477.1	1473.4	Monzodiorite	Waterra tubing installed to depth of 39.9m, vertical metallurgical hole
RCP03-285	Pit Area	1" Piezo	111.4	0.10	1537.1	Nov. 2, 2003	0.00	1537.1	1444.5	1440.4	Monzodiorite	Well and well casing frozen solid
⁽³⁾ DH-03-01	Tailings Storage Facility	2" Well	17.1	0.76	1120.0	Nov. 1, 2003	13.32	1120.0	1106.5	1102.5	Alluvial and Glaciofluvial Sand and Gravel	Waterra tubing installed, well pumped 'dry' several times during sampling
⁽³⁾ DH-03-02	Tailings Storage Facility	1" Piezo	18.6	0.76	1125.0	Nov. 1, 2003	9.65	1116.1	1109.5	1105.5	Alluvial and Glaciofluvial Sand and Gravel	Waterra tubing installed for sampling
⁽³⁾ DH-03-03	Tailings Storage Facility	2" Well	38.1	0.69	1106.0	Nov. 1, 2003	0.00	1106.7	1075.3	1067.7	Alluvial and Glaciofluvial Sand and Gravel	Waterra tubing installed for sampling
⁽³⁾ DH-03-04	Tailings Storage Facility	1" Piezo	56.9	1.07	1111.0	n/a	n/a	n/a	1061.3	1034.0	Alluvial and Glaciofluvial Sand and Gravel	
DH-03-05	Plant Site	2" Well	10.3	0.15	1456.1	Nov. 2, 2003	0.40	1455.9	1449.0	1445.5	Argillaceous Siltstone	Waterra tubing installed for sampling
DH-03-06	Plant Site	1" Piezo	16.0	0.32	1459.9	Nov. 2, 2003	11.03	1448.8	1447.3	1443.3	Argillaceous Siltstone	
DH-03-07	Waste Dump Site	2" Well	16.4	0.10	1494.7	Nov. 1, 2003	1.32	1458.8	1448.3	1445.2	Volcanic	Waterra tubing installed for sampling
DH-03-08	Waste Dump Site	2" Well	13.1	0.14	1494.7	Nov. 1, 2003	3.04	1491.8	1486.8	1483.0	Volcanic	Waterra tubing installed for sampling
DH95-1	Tailings Storage Facility	1.5" Piezo	23.47	n/a	1080	Aug. 30, 1995	1.83	1041.8	1050.0	1056.5	Alluvial and Glaciofluvial Sand and Gravel	
DH95-2	Tailings Storage Facility	1.5" Piezo	5.79	n/a	1170	n/a	n/a	n/a	1166.0	1164.3	Alluvial and Glaciofluvial Sand and Gravel	
DH95-3	Tailings Storage Facility	1.5" Piezo	3.963	n/a	1070	n/a	n/a	n/a	1066.0	1067.6	Alluvial and Glaciofluvial Sand and Gravel	

Notes:

- 1) Piezo/Well length is down hole length of pipe (screen, standpipe, and stickup)
- 2) Stick up is length of pipe remaining above ground level (lengths included inclined adjustments where applicable)
- 3) Depth measurements were made at the time of installation



RCP03-285
 100150N, 49901E
 Azimuth 315°, dip 60°
 Hole length 200.9m
 1" piezometer tip at 111.4m
 Completion zone 108.1m to 111.7m
 Groundwater 0.1m above ground

2
 FIG. 4.2

RCP03-267
 100302N, 50775E
 Azimuth 0°, dip 60°
 Hole length 417.4m
 2" well tip at 92.4m
 Completion zone 86.1m to 92.8m
 Groundwater 0.3m above ground

RCP03-278
 100100N, 50750E
 Azimuth 0°, dip 63°
 Hole length 362.2 m

3
 FIG. 4.2

RCP03-275
 100524N, 50700E
 Azimuth 330°, dip 53°
 Hole length 222.3m
 1" piezometer tip at 187.6m
 Completion zone 181.2m to 187.9m
 Groundwater 2.2m below ground

RCP03-272
 100475N, 51024E
 Azimuth 90°, dip 60°
 Hole length 200 m

1
 FIG. 4.2

RCP03-262
 100401N, 50825E
 Azimuth 180°, dip 60°
 Hole length 400.0 m

Approx. Pit bottom
 at El. 1275 m

Approx. Pit bottom
 at El. 1100 m

1
 FIG. 4.2

RCP03-286
 100040N, 49926E
 Azimuth 180°, Dip 60°
 Hole length 350.3 m

RCP03-289
 99991N, 50319E
 Azimuth 165°, dip 60°
 Hole length 251.5m

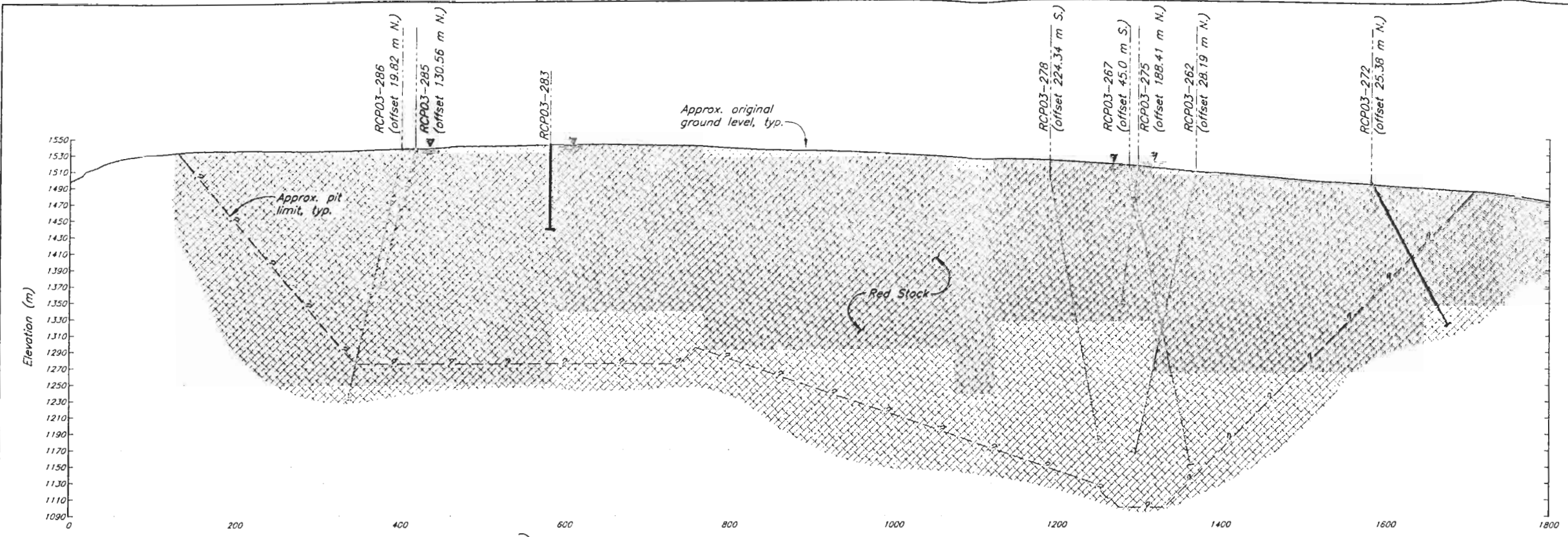
3
 FIG. 4.2

RCP03-283
 100040N, 50140E
 2" well tip at 65.4m installed in
 Vertical Metallurgical Hole
 Completion zone 62.1m to 65.7m
 Groundwater 0.1m below ground

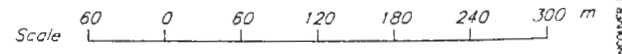
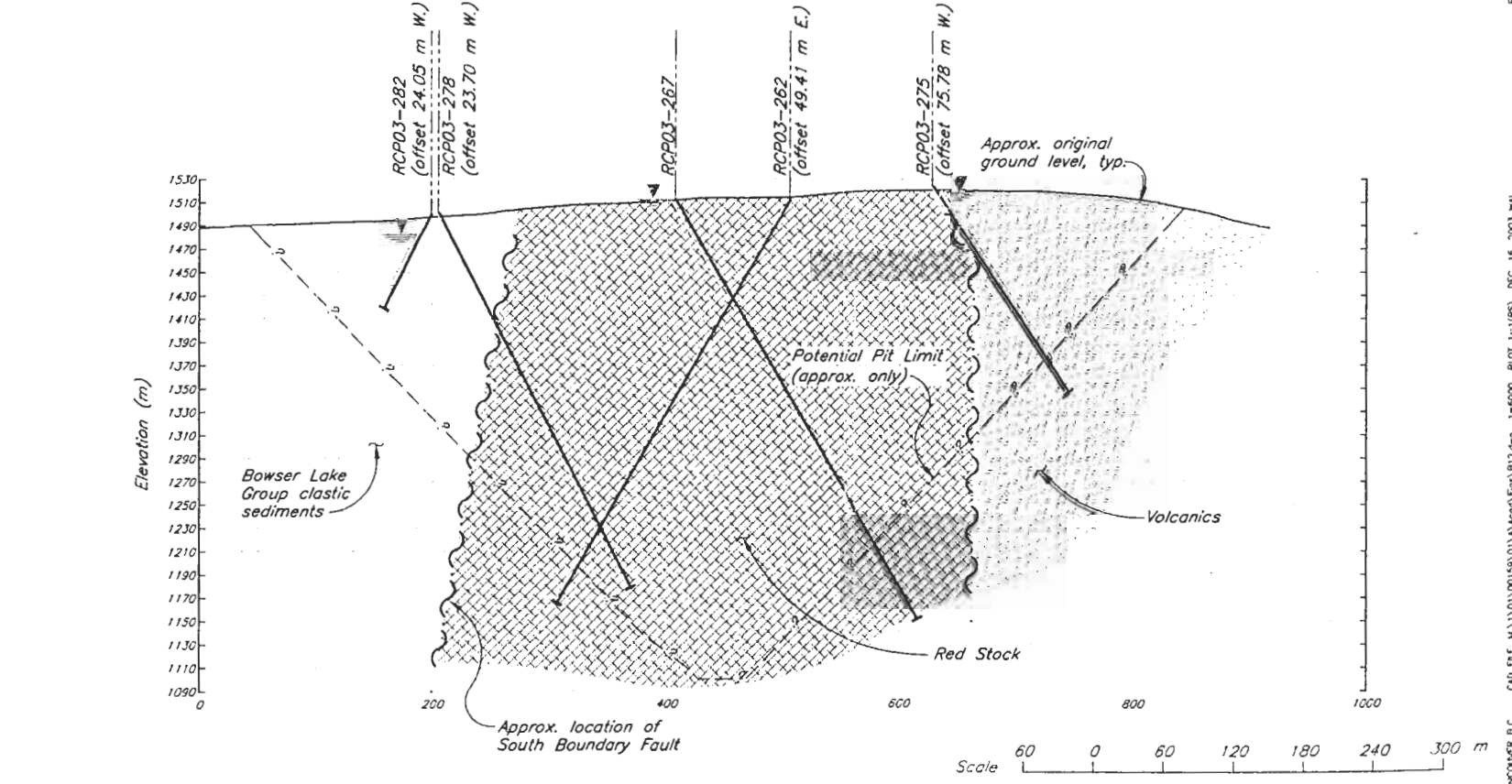
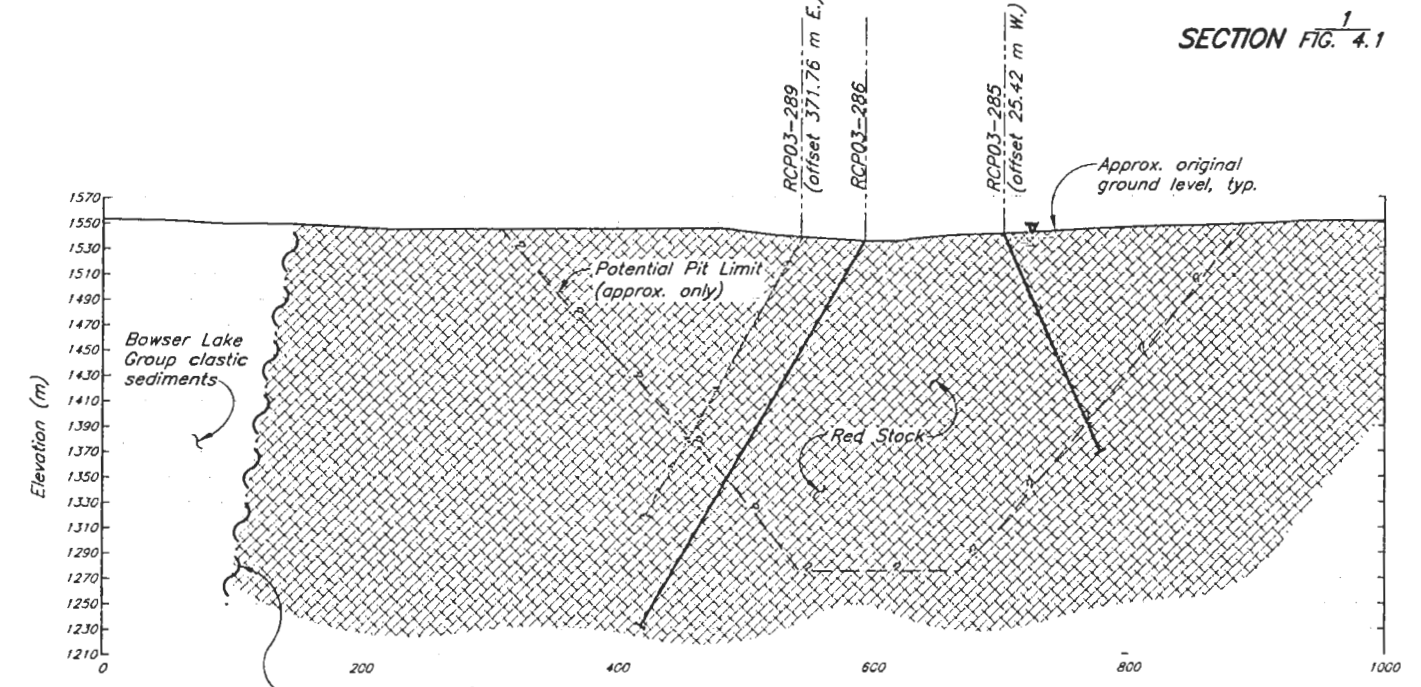
RCP03-282
 100094N, 50750E
 Azimuth 150°, dip 60°
 Hole length 93.6m
 1" piezometer tip at 64.9m
 Completion zone 61.6m to 65.5m
 Groundwater 12.6m below ground

South Boundary Fault
 (at El. 1400 approx.)
 Fault dips steeply (~80°) to South

2
 FIG. 4.2



- NOTES**
- 1 RCP03-283 Vertical metallurgical well not part of geotechnical drilling program.
 - 2 Grey drill holes denote drill holes out of section and orientation.



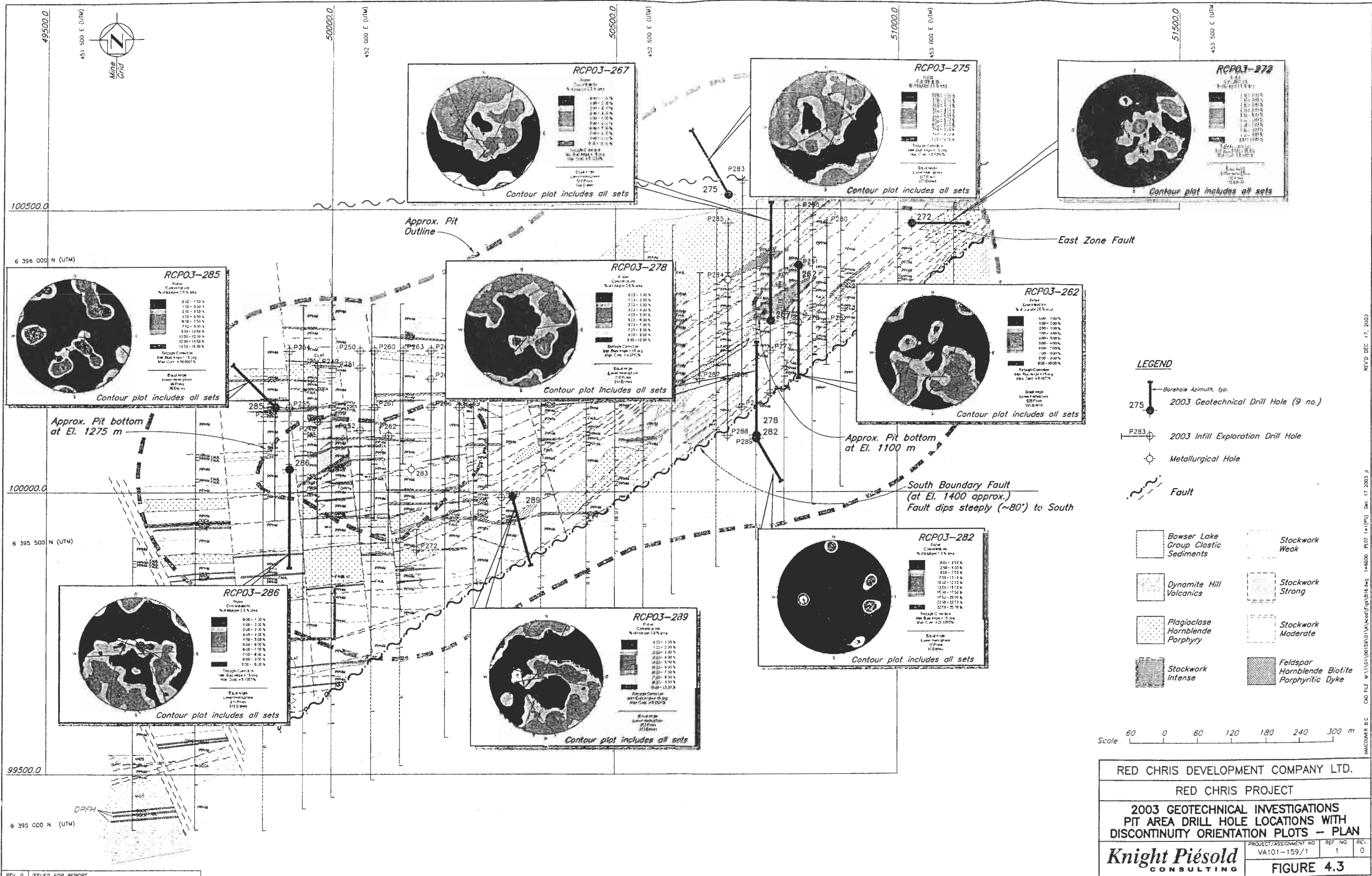
SHEAF FILE

REV 0 ISSUED FOR REPORT

REV'D DEC 17, 2003

WACORPER B.C. CAD FILE: M:\1101\06159\01\A\Kees\Fig4.1.dwg 1=6500 PLOT 1=1(P5) DEC 16, 2003 MAL

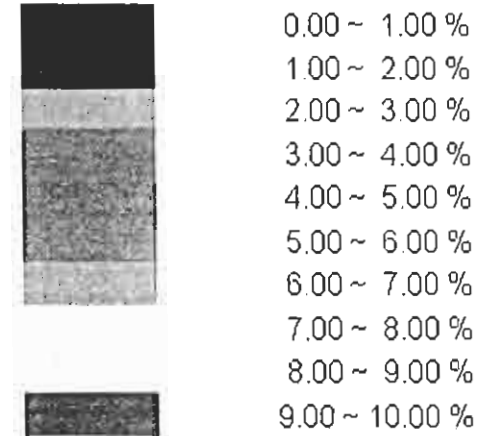
RED CHRIS DEVELOPMENT COMPANY LTD.			
RED CHRIS PROJECT			
2003 GEOTECHNICAL INVESTIGATIONS PIT AREA SECTIONS			
Knight Piésold CONSULTING	PROJECT/ASSIGNMENT NO	REV. NO	REV
	VA101-159/1	1	0
FIGURE 4.2			



CAD FILE: M:\1\01\001\01\VA101-159\Figs\Fig4.3.dwg 1:6000 PLOT: 14" x 11" (PS) Dec. 17, 2003 J. WICKHAMER B.C. REV'D DEC. 17, 2003 J.



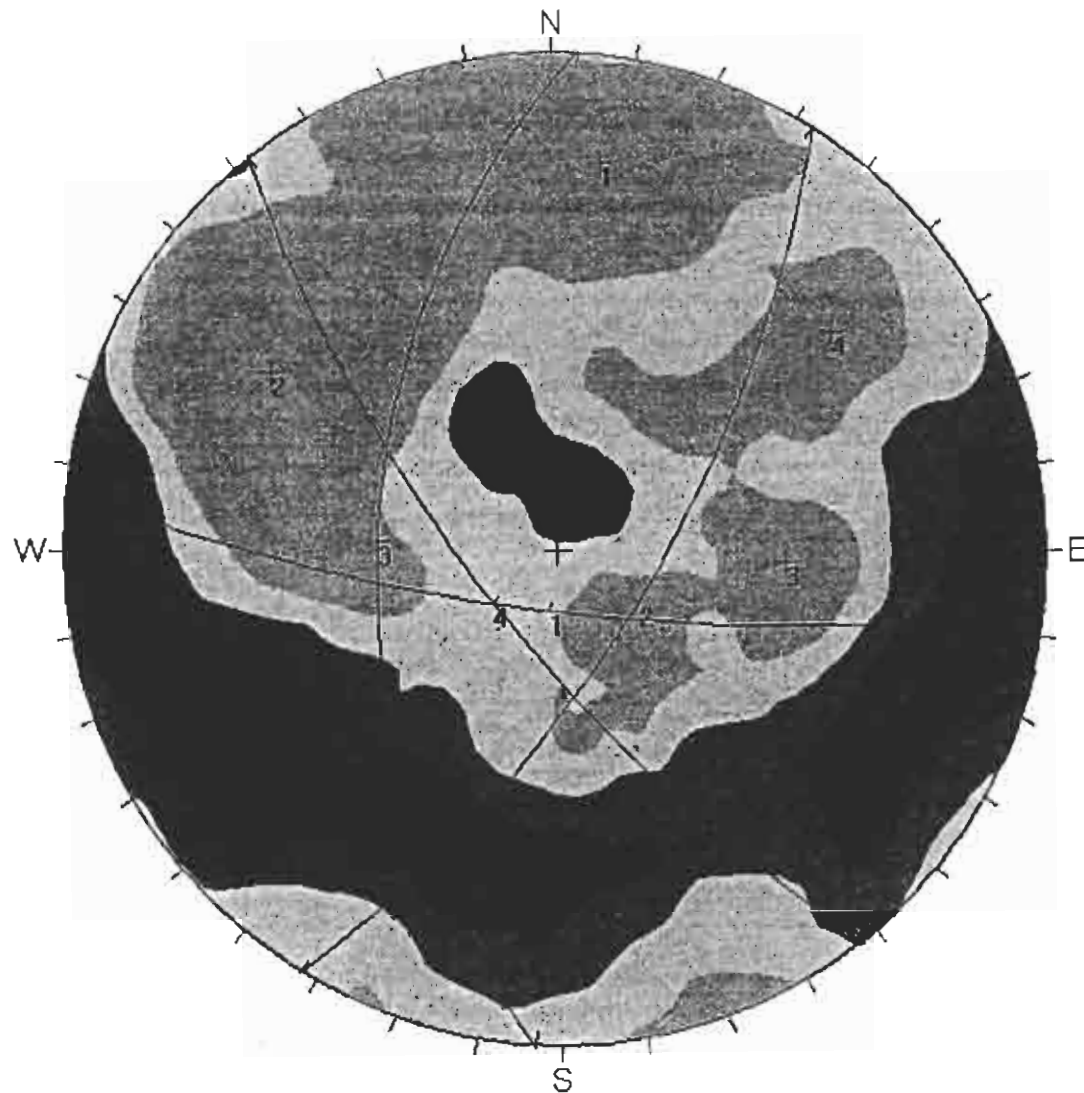
Fisher
Concentrations
% of total per 2.0 % area



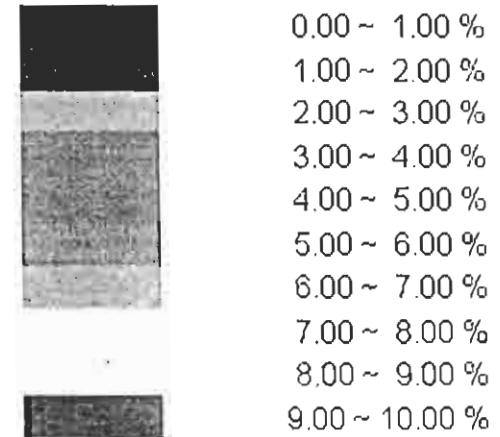
Terzaghi Correction
Min. Bias Angle = 15 deg
Max. Conc. = 5.0377%

Equal Angle
Lower Hemisphere
525 Poles
525 Entries

RED CHRIS DEVELOPMENT COMPANY LTD.		
RED CHRIS PROJECT		
PRELIMINARY STEREOGRAPHIC ANALYSIS FOR DRILL HOLE RCP03-262		
<i>Knight Piésold</i> CONSULTING	DATE PLOTTED:	REVISED:
	DRAWN BY:	CHECKED BY:
FIGURE 4.4		D



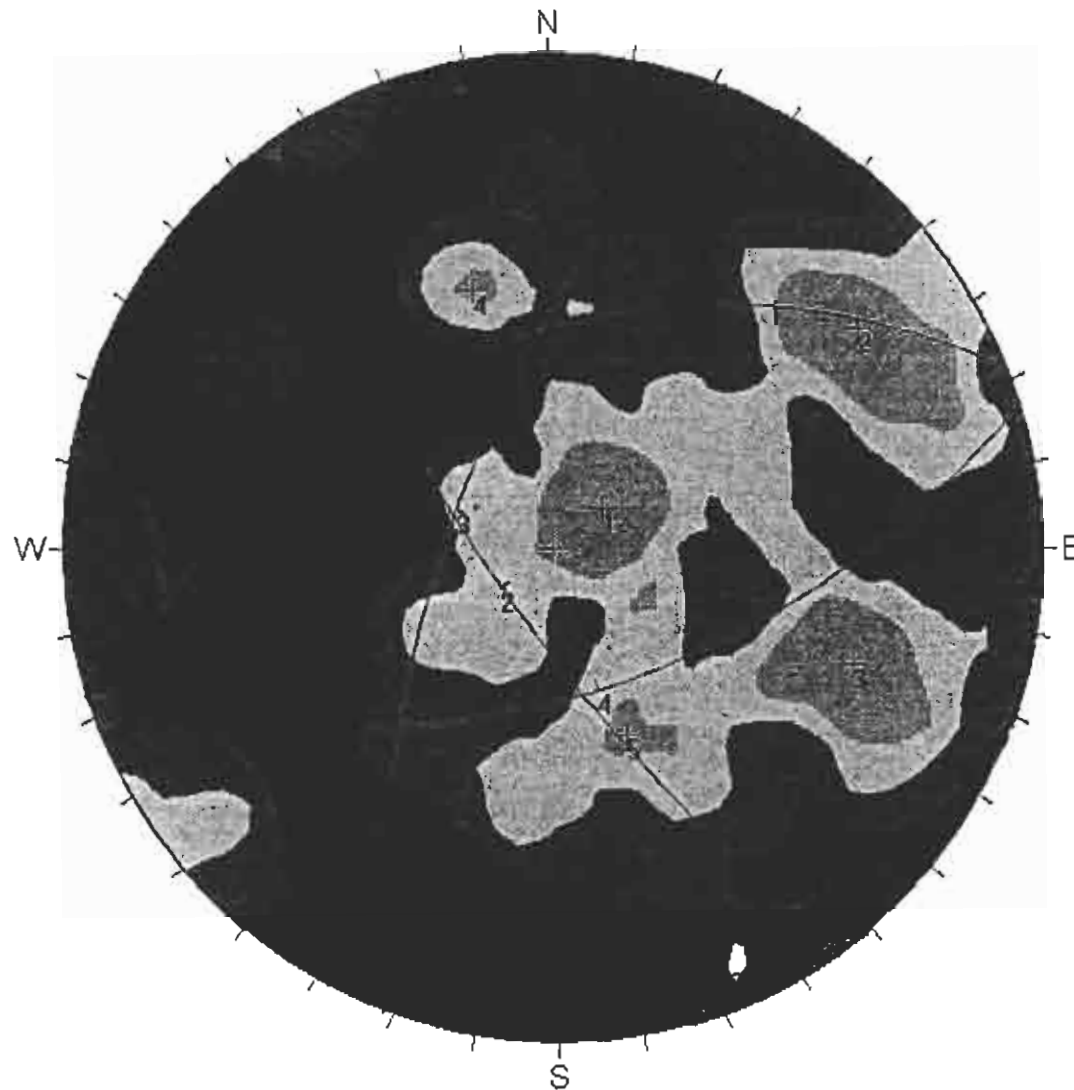
Fisher
Concentrations
% of total per 2.5 % area



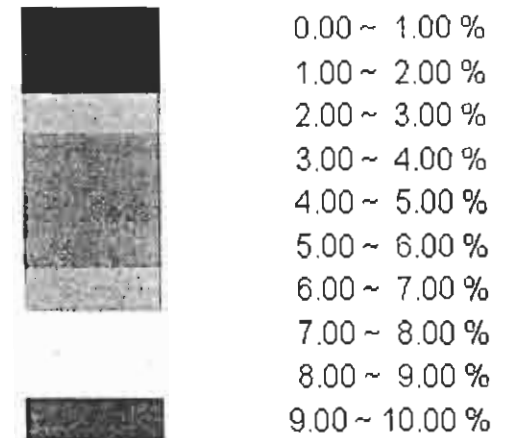
Terzaghi Correction
Min. Bias Angle = 15 deg
Max. Conc. = 5.8238%

Equal Angle
Lower Hemisphere
538 Poles
538 Entries

RED CHRIS DEVELOPMENT COMPANY LTD.		
RED CHRIS PROJECT		
PRELIMINARY STEREOGRAPHIC ANALYSIS FOR DRILL HOLE RCP03-267		
<i>Knight Piésold</i> CONSULTING	PROJECT NO. 4444-00000	REV. NO. 1
	FIGURE 4.5	



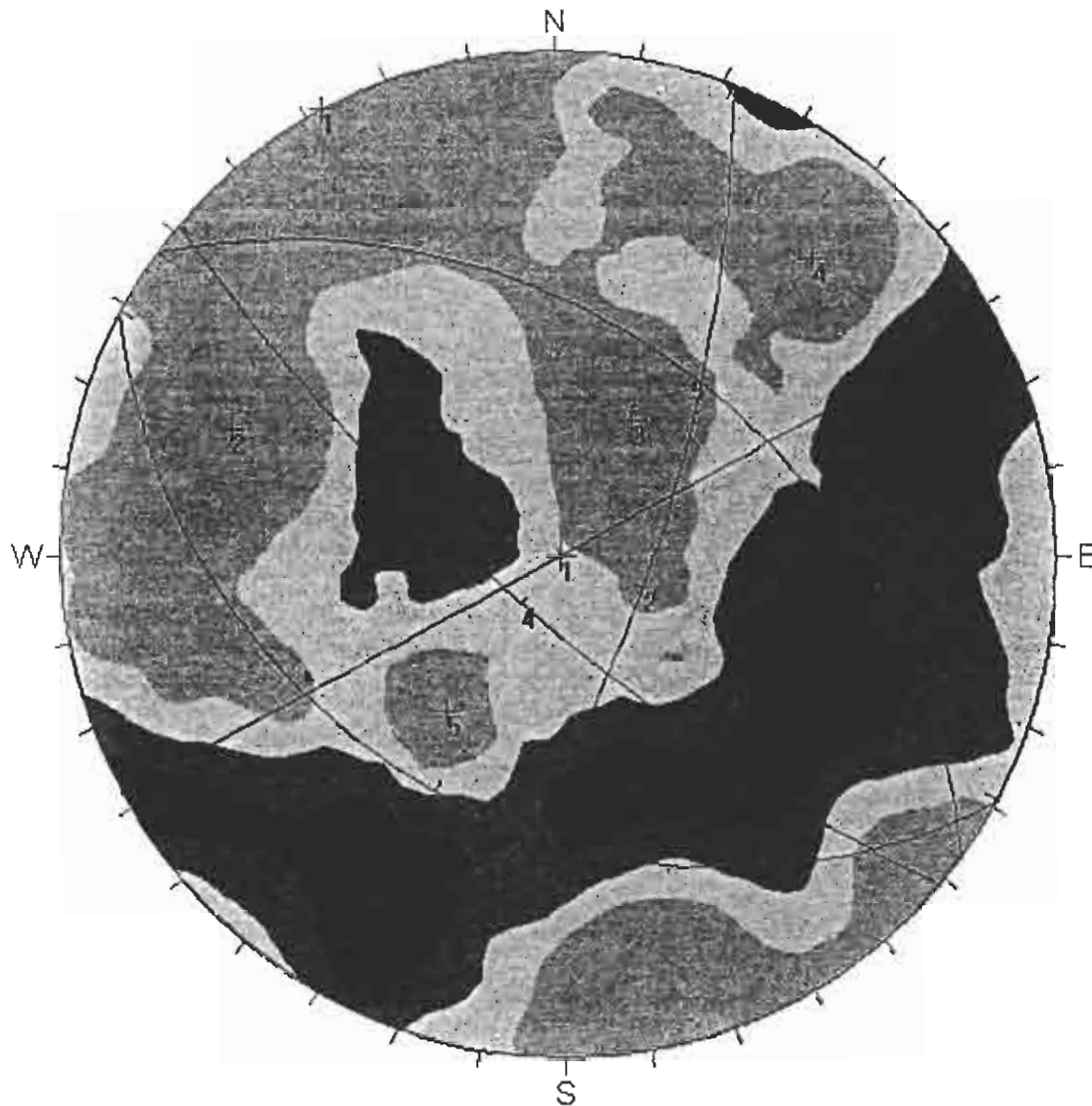
Fisher
Concentrations
% of total per 1.5 % area



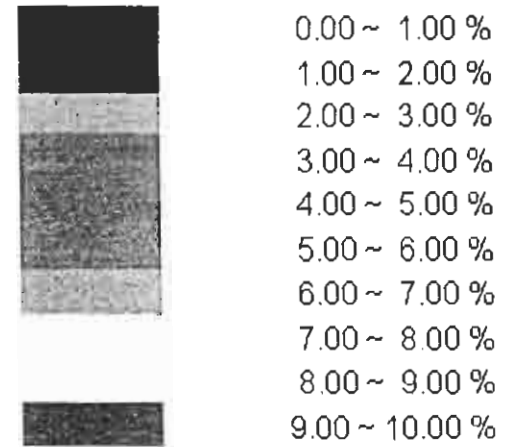
Terzaghi Correction
Min. Bias Angle = 15 deg
Max. Conc. = 5.8047%

Equal Angle
Lower Hemisphere
192 Poles
192 Entries

RED CHRIS DEVELOPMENT COMPANY LTD.			
RED CHRIS PROJECT			
PRELIMINARY STEREOGRAPHIC ANALYSIS FOR DRILL HOLE RCP03-272			
<i>Knight Piésold</i> CONSULTING	PROJECT NO. RCP03-272	REV. NO. 1	REV. D.
	FIGURE 4.6		



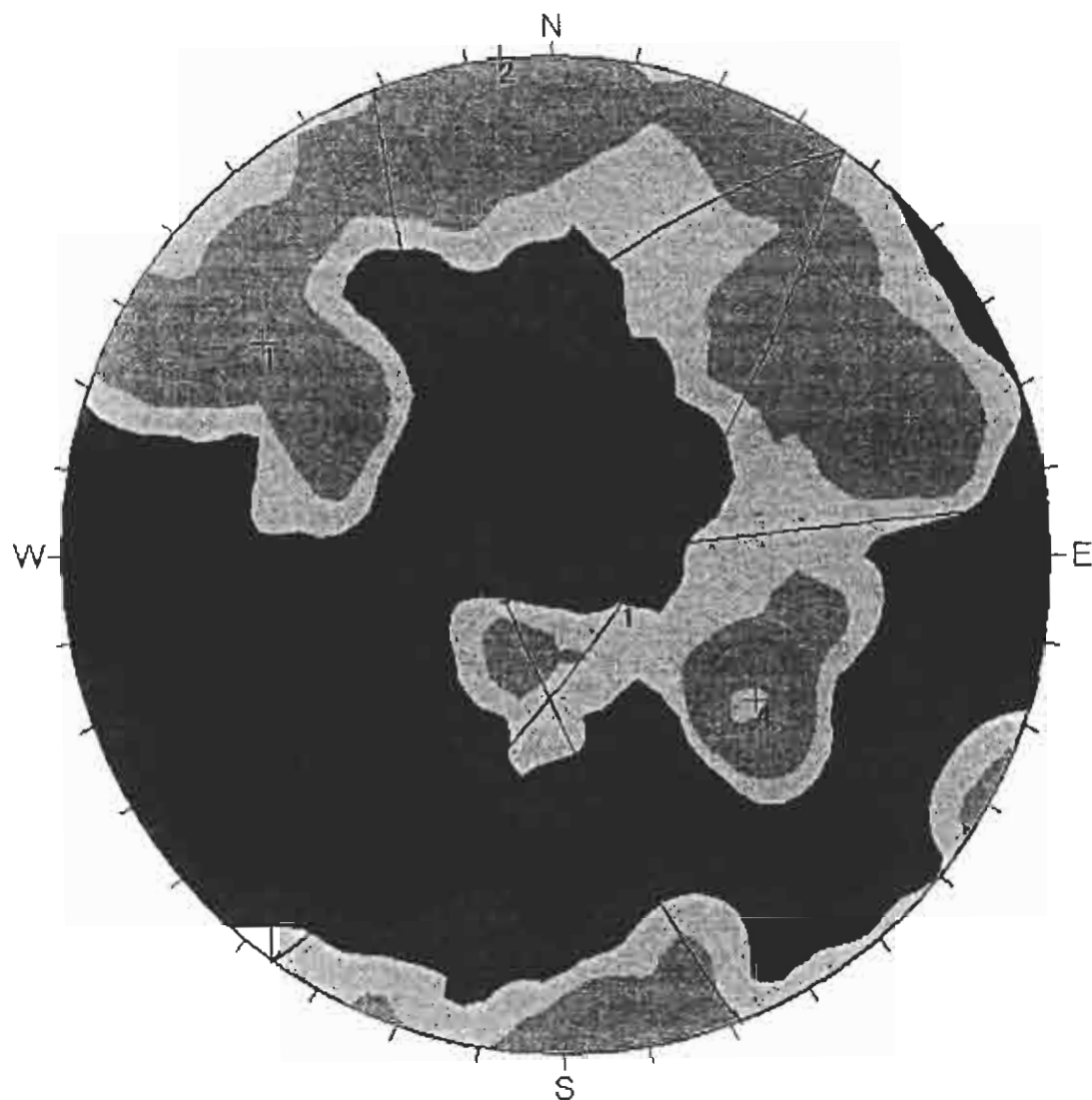
Fisher
Concentrations
% of total per 2.5 % area



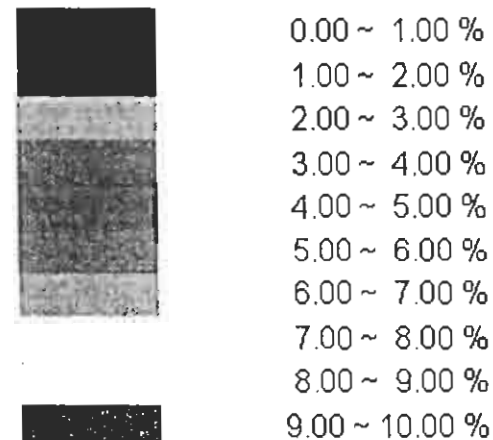
Terzaghi Correction
Min. Bias Angle = 15 deg
Max. Conc. = 5.7390%

Equal Angle
Lower Hemisphere
377 Poles
377 Entries

RED CHRIS DEVELOPMENT COMPANY LTD.			
RED CHRIS PROJECT			
PRELIMINARY STEREOGRAPHIC ANALYSIS FOR DRILL HOLE RCP03-275			
<i>Knight Piésold</i> CONSULTING	PROJECT NO. RCP03-275	REV NO. 1	REV 2
	FIGURE 4.7		



Fisher Concentrations
% of total per 2.0 % area



Terzaghi Correction
Min. Bias Angle = 15 deg
Max. Conc. = 6.3762%

Equal Angle
Lower Hemisphere
210 Poles
210 Entries

RED CHRIS DEVELOPMENT COMPANY LTD.

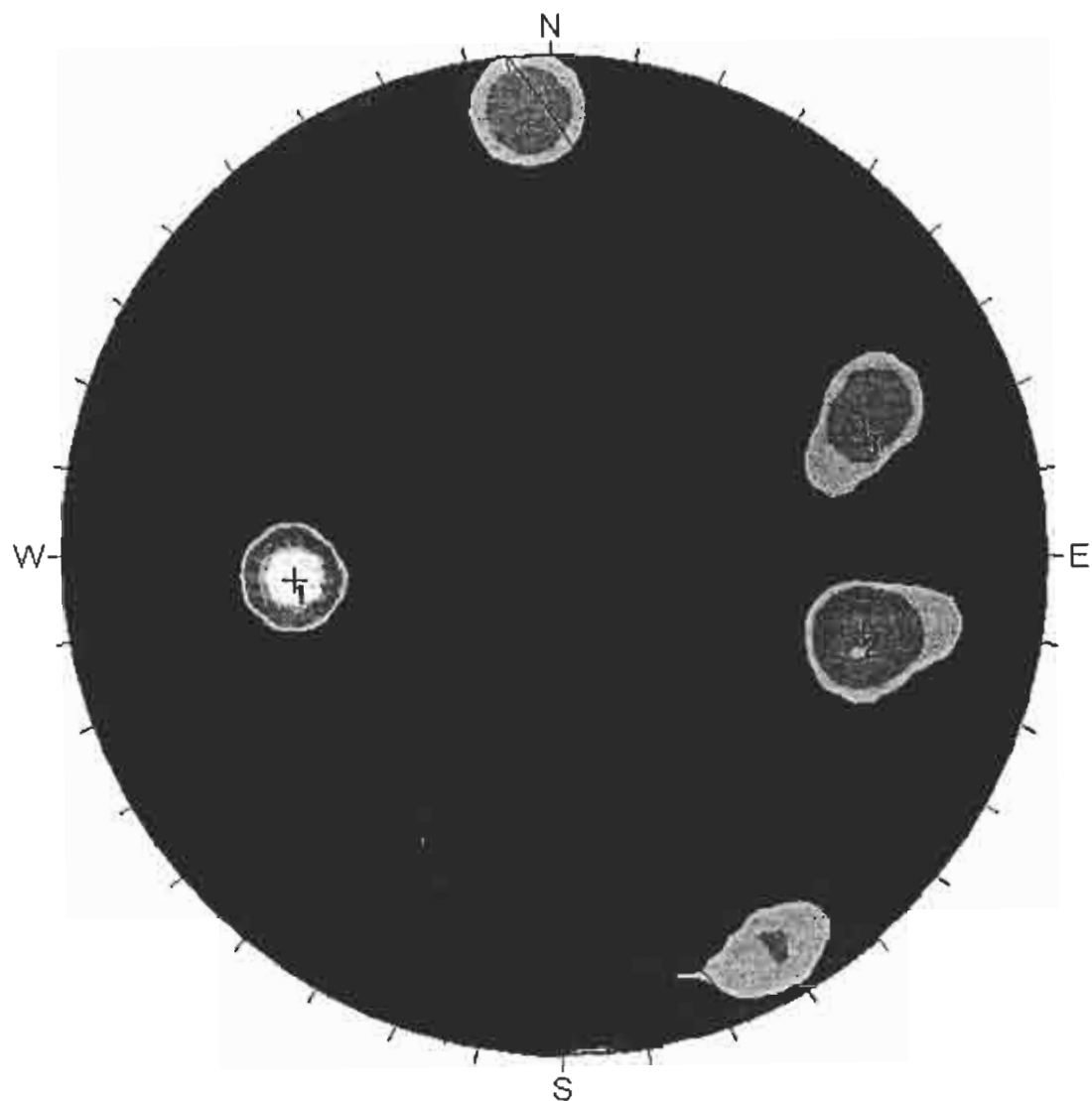
RED CHRIS PROJECT

PRELIMINARY STEREOGRAPHIC ANALYSIS
FOR DRILL HOLE RCP03-278

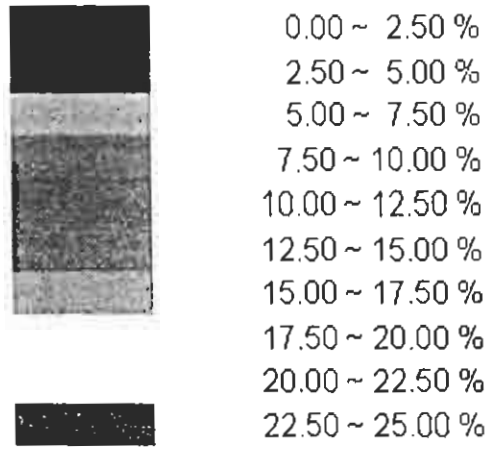
Knight Piésold
CONSULTING

PROJECT NO. 03-003-000001	REV. NO. 1	REV. G
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FIGURE 4.8



Fisher
Concentrations
% of total per 1.0 % area



Terzaghi Correction
Min. Bias Angle = 15 deg
Max. Conc. = 21.1355%

Equal Angle
Lower Hemisphere
17 Poles
17 Entries

RED CHRIS DEVELOPMENT COMPANY LTD.		
RED CHRIS PROJECT		
PRELIMINARY STEREOGRAPHIC ANALYSIS FOR DRILL HOLE RCP03-282		
	PROJECT NO. WARRINGTON 1	REV. NO. 1
	DATE 03	
FIGURE 4.9		



Fisher
Concentrations
% of total per 2.0 % area



0.00 ~ 1.50 %
1.50 ~ 3.00 %
3.00 ~ 4.50 %
4.50 ~ 6.00 %
6.00 ~ 7.50 %
7.50 ~ 9.00 %
9.00 ~ 10.50 %
10.50 ~ 12.00 %
12.00 ~ 13.50 %
13.50 ~ 15.00 %

Terzaghi Correction
Min. Bias Angle = 15 deg
Max. Conc. = 10.0037%

Equal Angle
Lower Hemisphere
36 Poles
36 Entries

RED CHRIS DEVELOPMENT COMPANY LTD.

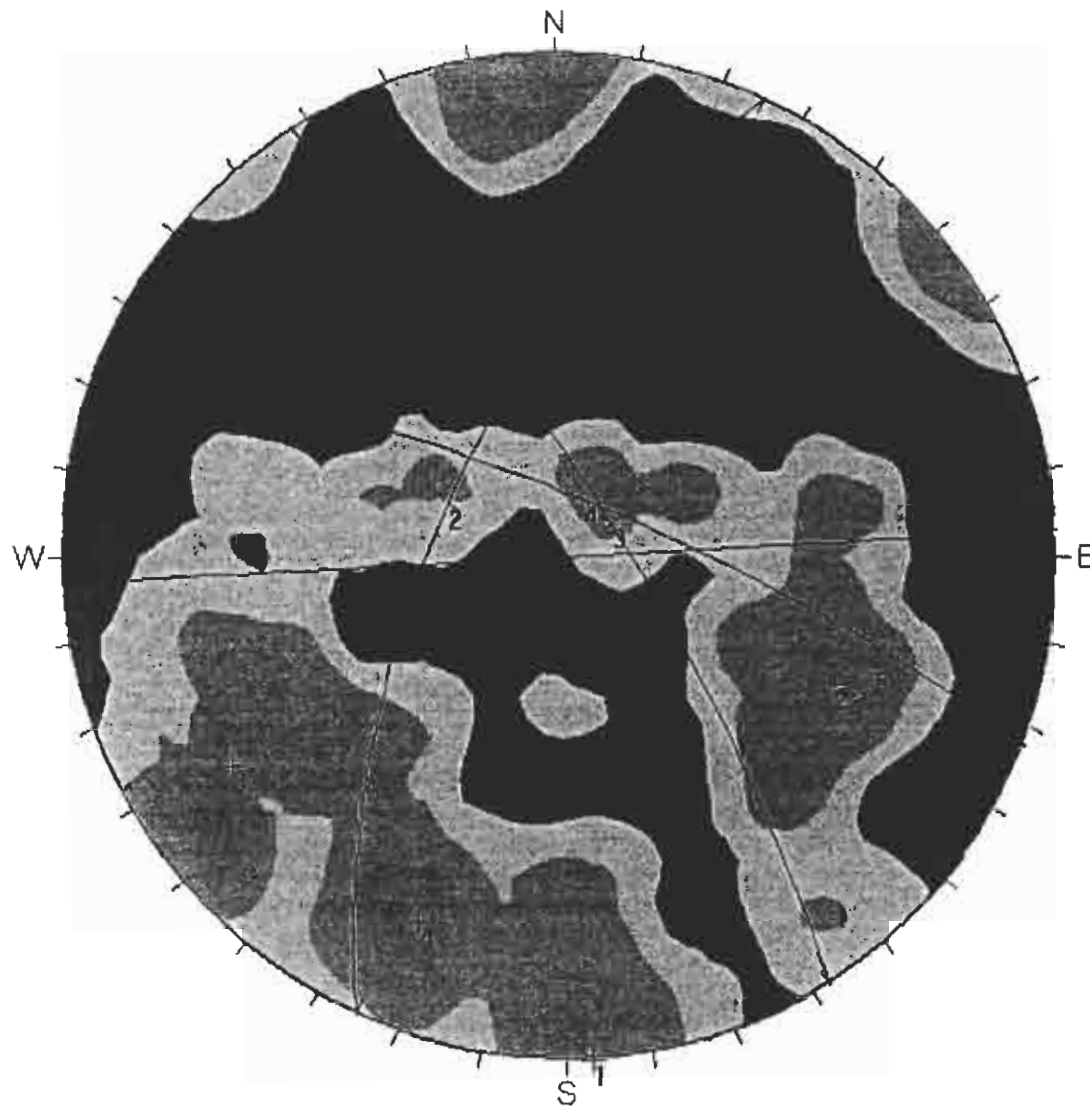
RED CHRIS PROJECT

PRELIMINARY STEREOGRAPHIC ANALYSIS
FOR DRILL HOLE RCP03-285

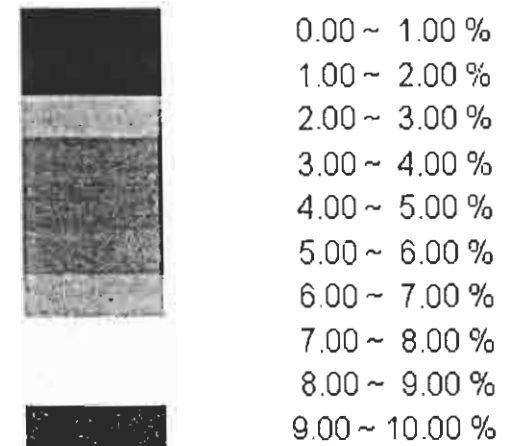
Knight Piésold
CONSULTING

PROJECT NO. 34114-00159-1	REP. NO.	REV. 5
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FIGURE 4.10



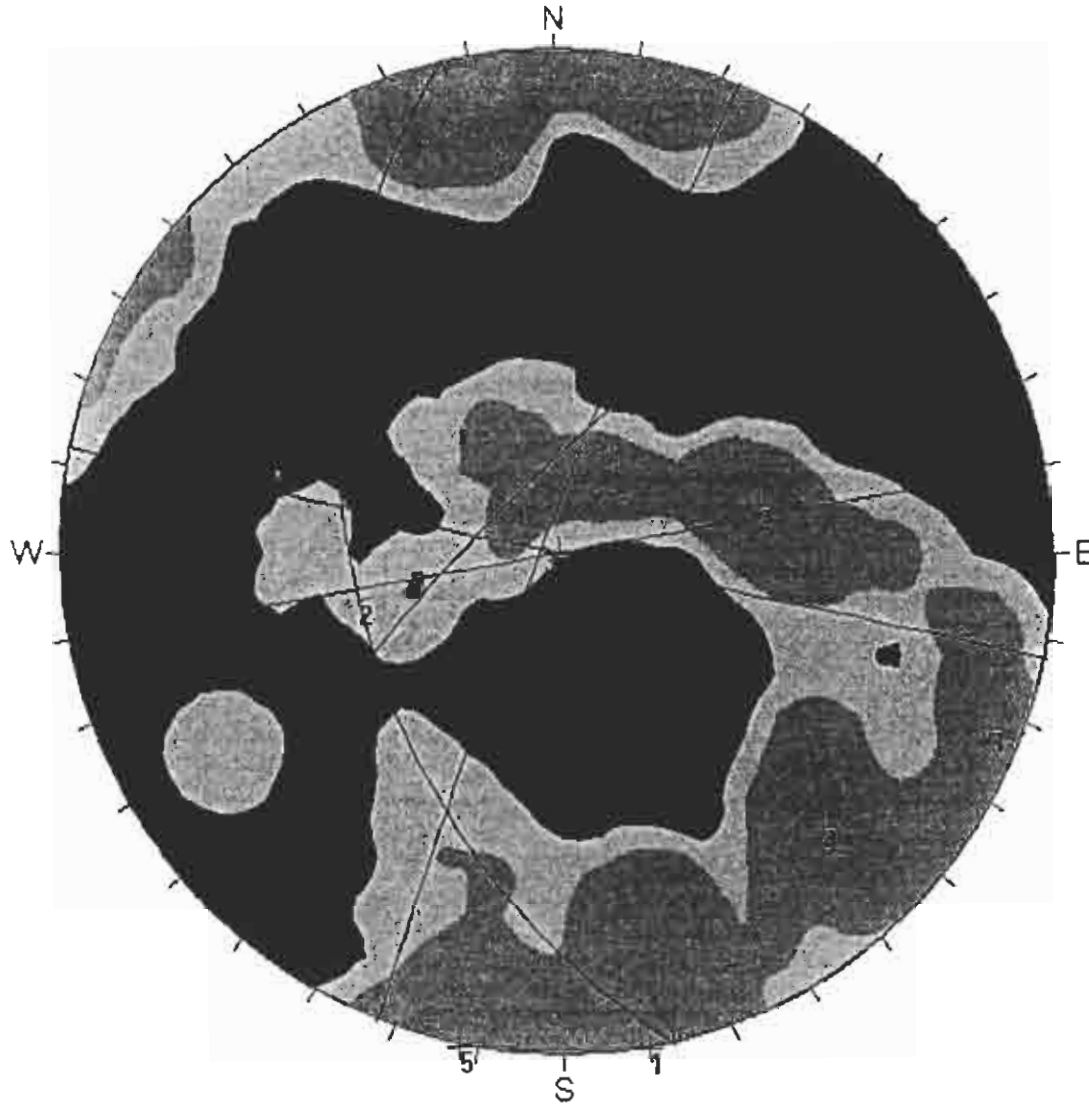
Fisher Concentrations
% of total per 2.0 % area



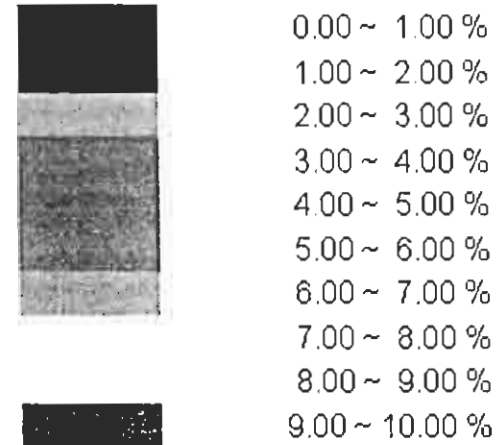
Terzaghi Correction
Min. Bias Angle = 15 deg
Max. Conc. = 5.1357%

Equal Angle
Lower Hemisphere
316 Poles
316 Entries

RED CHRIS DEVELOPMENT COMPANY LTD.		
RED CHRIS PROJECT		
PRELIMINARY STEREOGRAPHIC ANALYSIS FOR DRILL HOLE RCP03-286		
	<small>PROJECT NO.</small> <small>DATE</small>	<small>REV. NO.</small> <small>DATE</small>
	FIGURE 4.11	



Fisher
Concentrations
% of total per 2.0 % area



Terzaghi Correction
Min. Bias Angle = 15 deg
Max. Conc. = 5.2637%

Equal Angle
Lower Hemisphere
252 Poles
252 Entries

RED CHRIS DEVELOPMENT COMPANY LTD.

RED CHRIS PROJECT

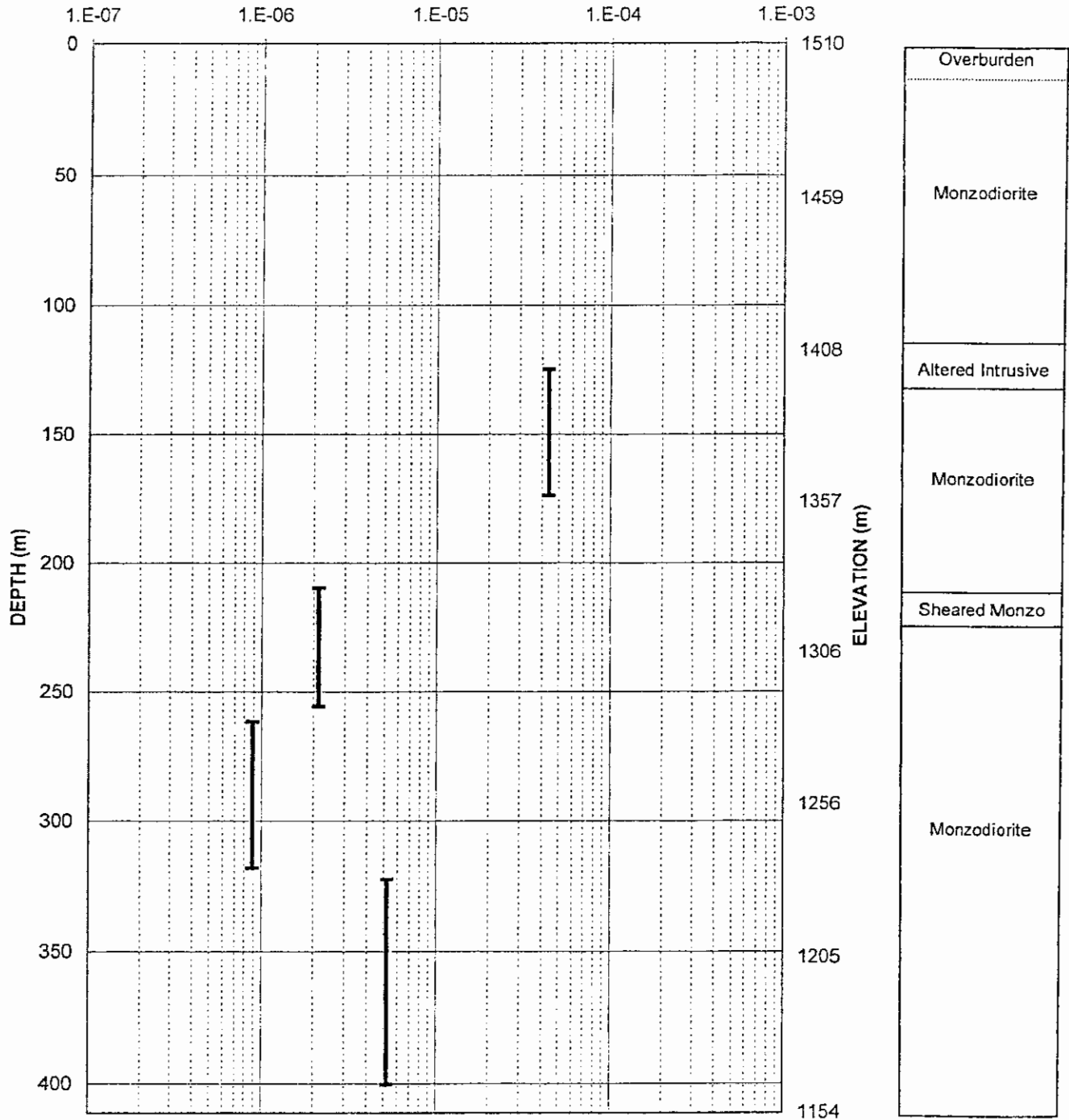
PRELIMINARY STEREOGRAPHIC ANALYSIS
FOR DRILL HOLE RCP03-289

Knight Piésold
CONSULTING

PROJECT NO. 000000001	REV. NO. 1	REV. 2
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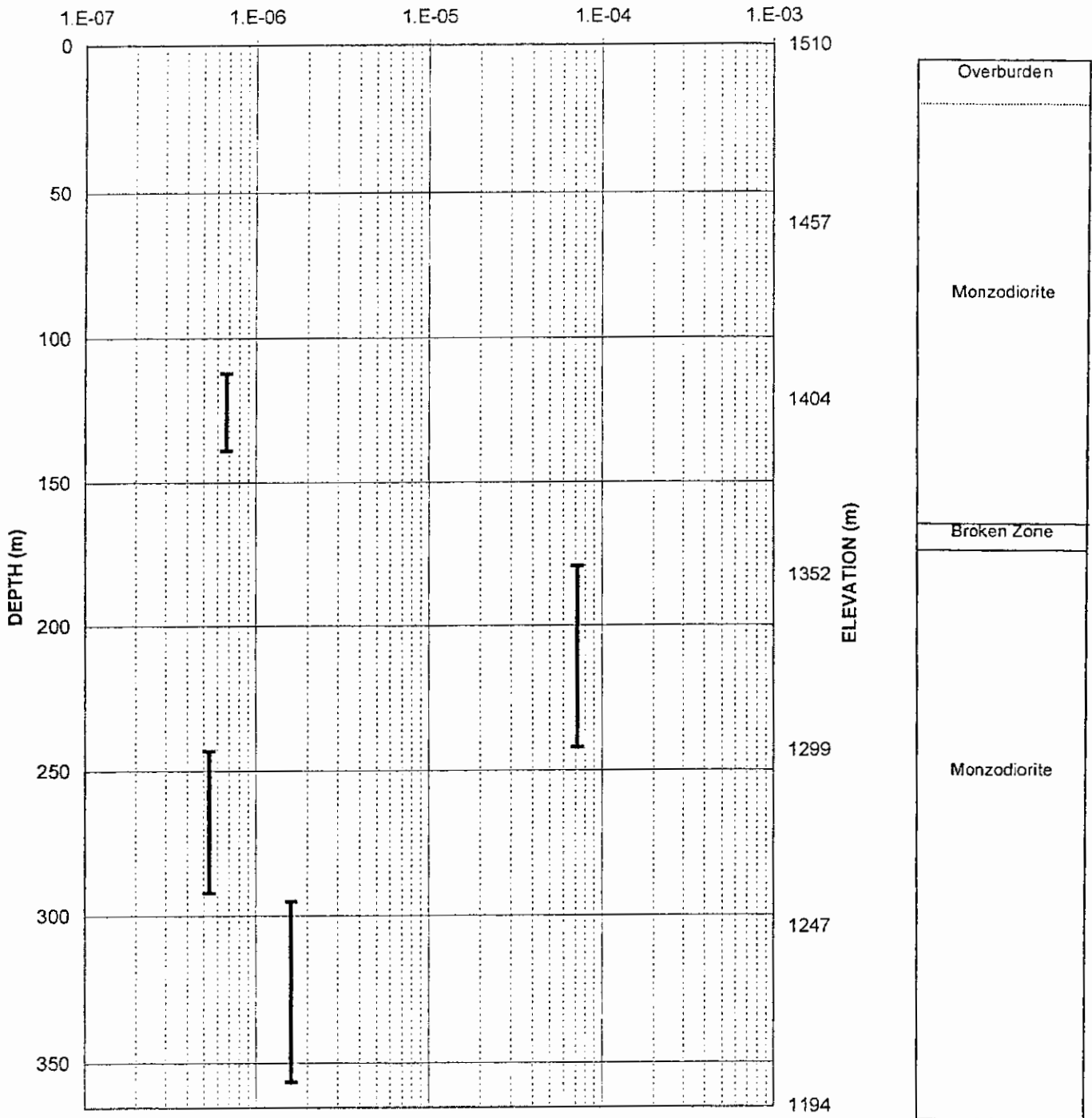
FIGURE 4.12

COEFFICIENT OF PERMEABILITY (cm/s)



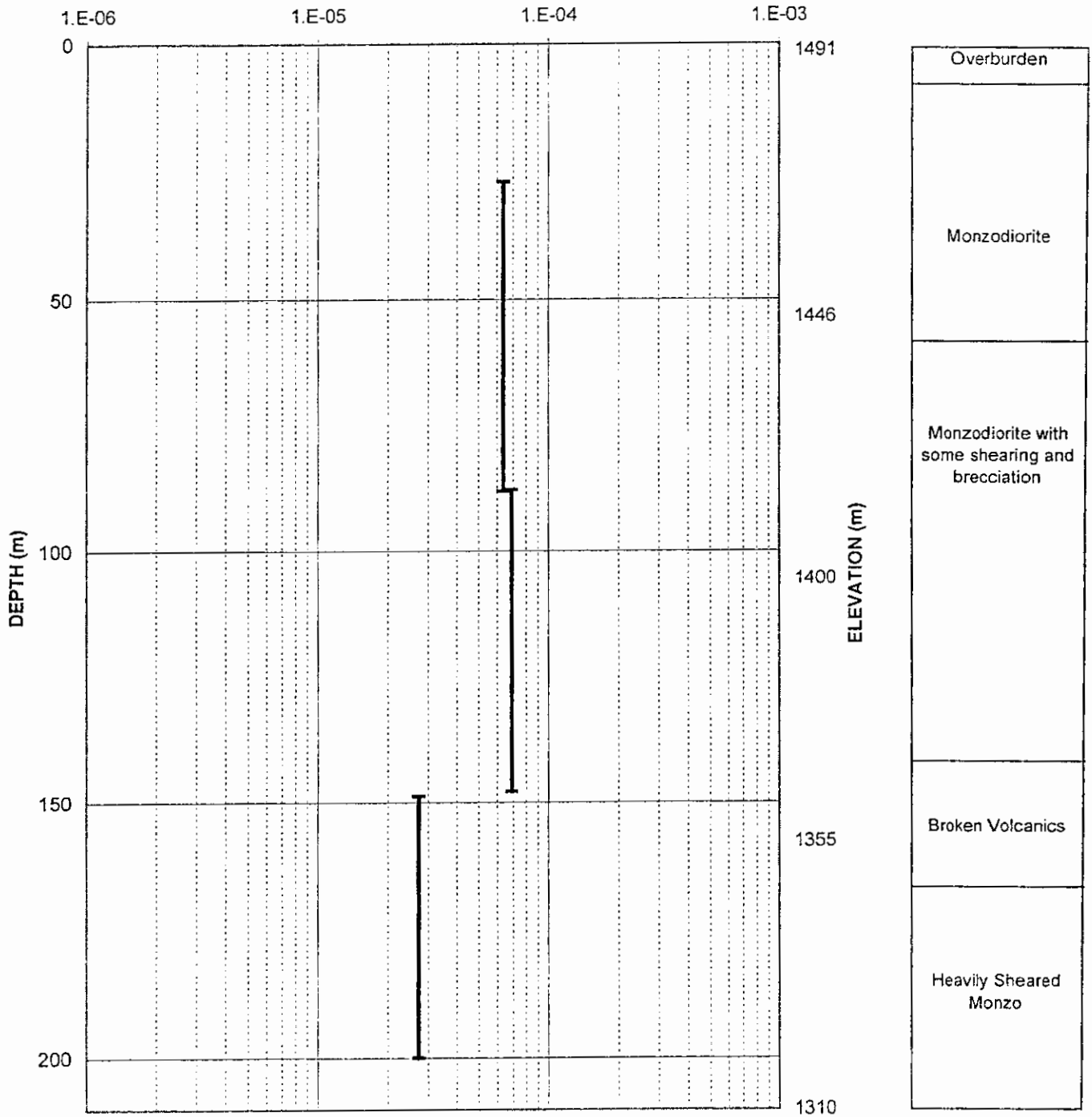
RED CHRIS DEVELOPMENT COMPANY LTD.		
RED CHRIS PROJECT		
COEFFICIENT OF PERMEABILITY VS. DEPTH AND ELEVATION FOR DRILL HOLE RCP03-262		
<i>Knight Piésold</i> CONSULTING	PROJECT / ASSIGNMENT NO. VA101-1591	REF. NO. 1
	REV. NO. 0	REV. NO. 0
FIGURE 4.13		

COEFFICIENT OF PERMEABILITY (cm/s)



RED CHRIS DEVELOPMENT COMPANY LTD.		
RED CHRIS PROJECT		
COEFFICIENT OF PERMEABILITY VS. DEPTH AND ELEVATION FOR DRILL HOLE RCP03-267		
	PROJECT / ASSIGNMENT NO VA101-159/1	REV NO 1
	FIGURE 4.14	

COEFFICIENT OF PERMEABILITY (cm/s)



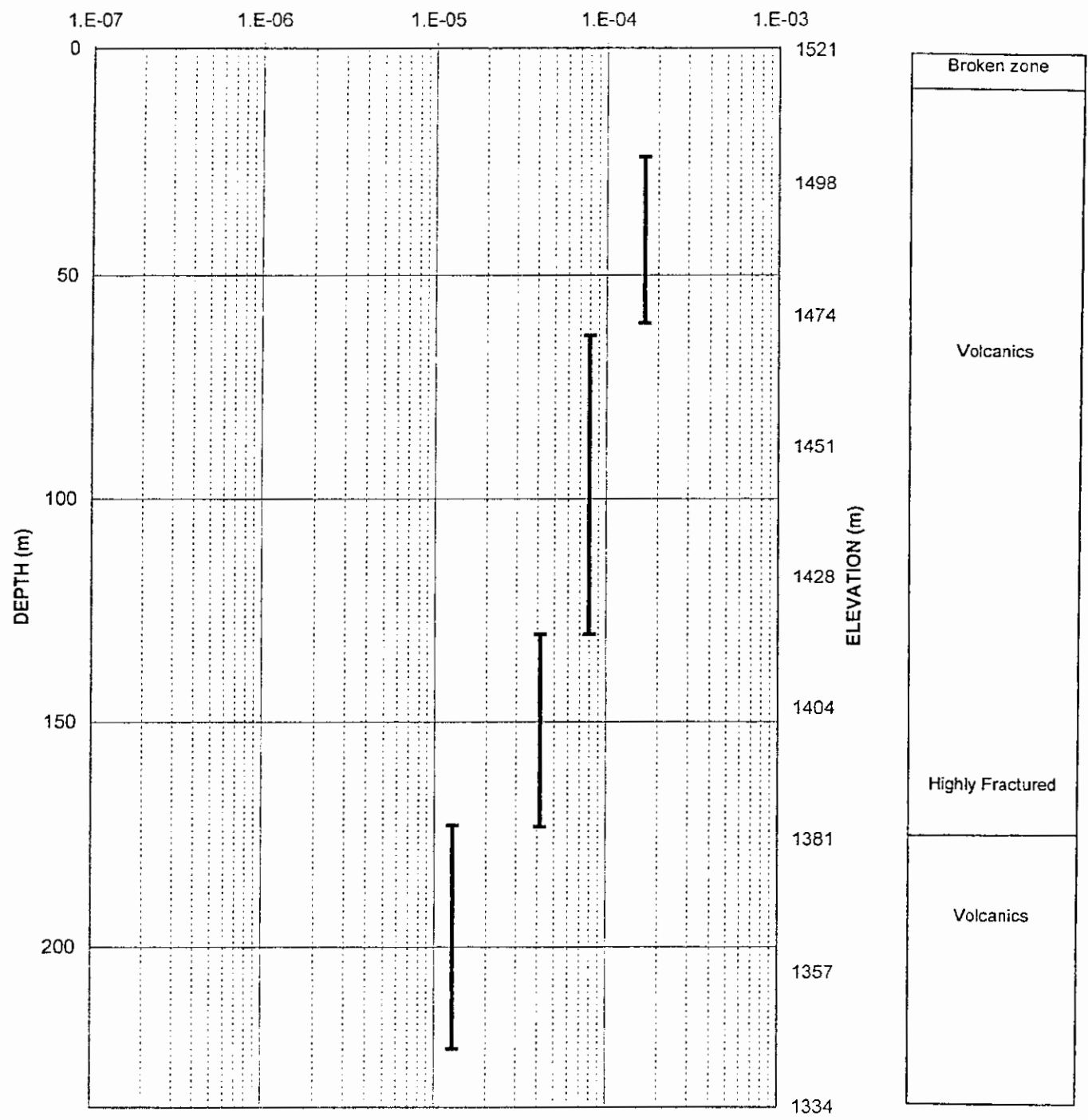
RED CHRIS DEVELOPMENT COMPANY LTD.
 RED CHRIS PROJECT
 COEFFICIENT OF PERMEABILITY VS. DEPTH AND
 ELEVATION FOR DRILL HOLE
 RCP03-272

Knight Piésold
 CONSULTING

PROJECT/ASSIGNMENT NO. VA101-159/1	REF NO. 1	REV 1
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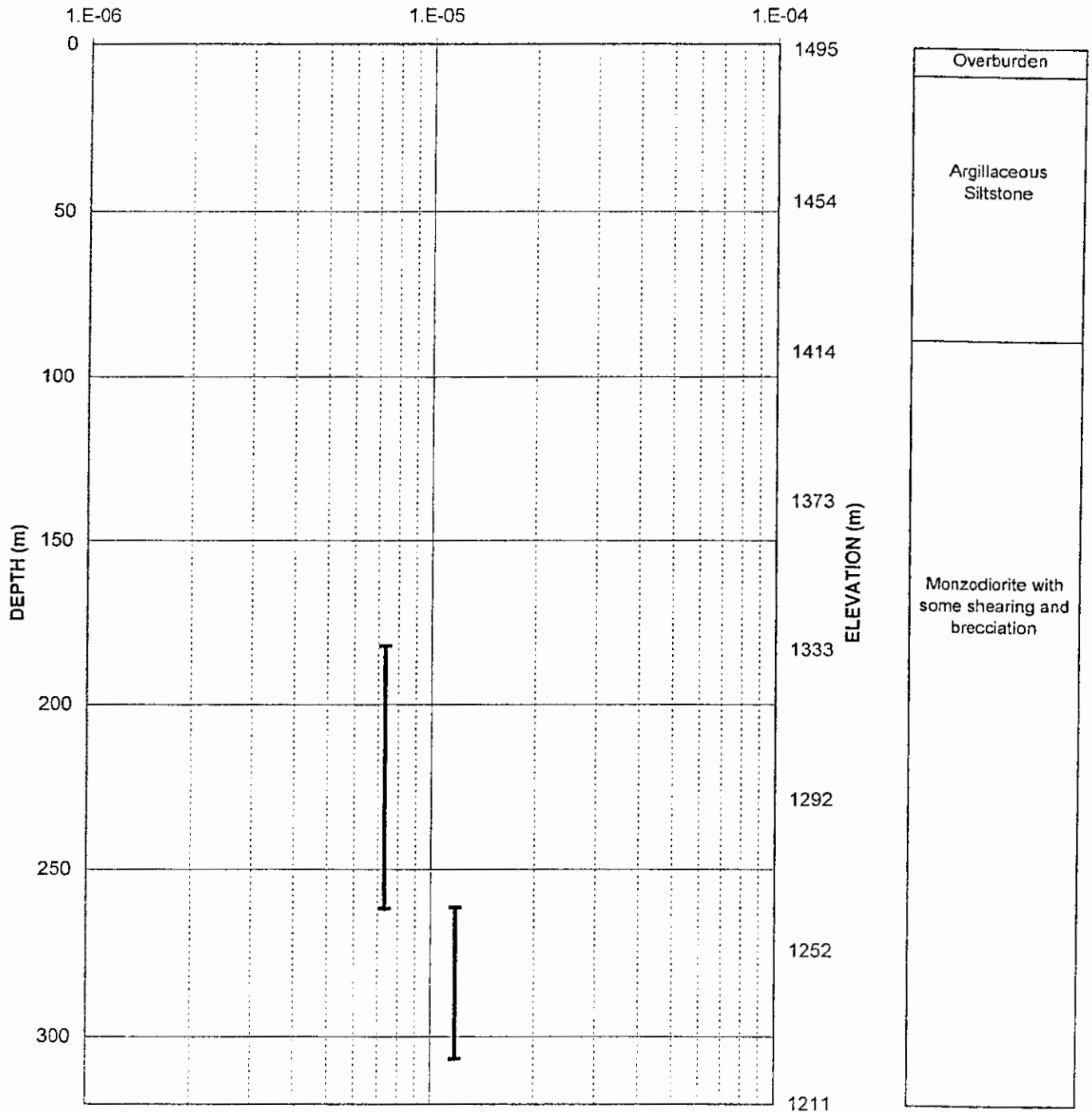
FIGURE 4.15

COEFFICIENT OF PERMEABILITY (cm/s)



RED CHRIS DEVELOPMENT COMPANY LTD.		
RED CHRIS PROJECT		
COEFFICIENT OF PERMEABILITY VS. DEPTH AND ELEVATION FOR DRILL HOLE RCP03-275		
	PROJECT / ASSIGNMENT NO VA101-159/11	REF NO 1
	REV 0	
FIGURE 4.16		

COEFFICIENT OF PERMEABILITY (cm/s)



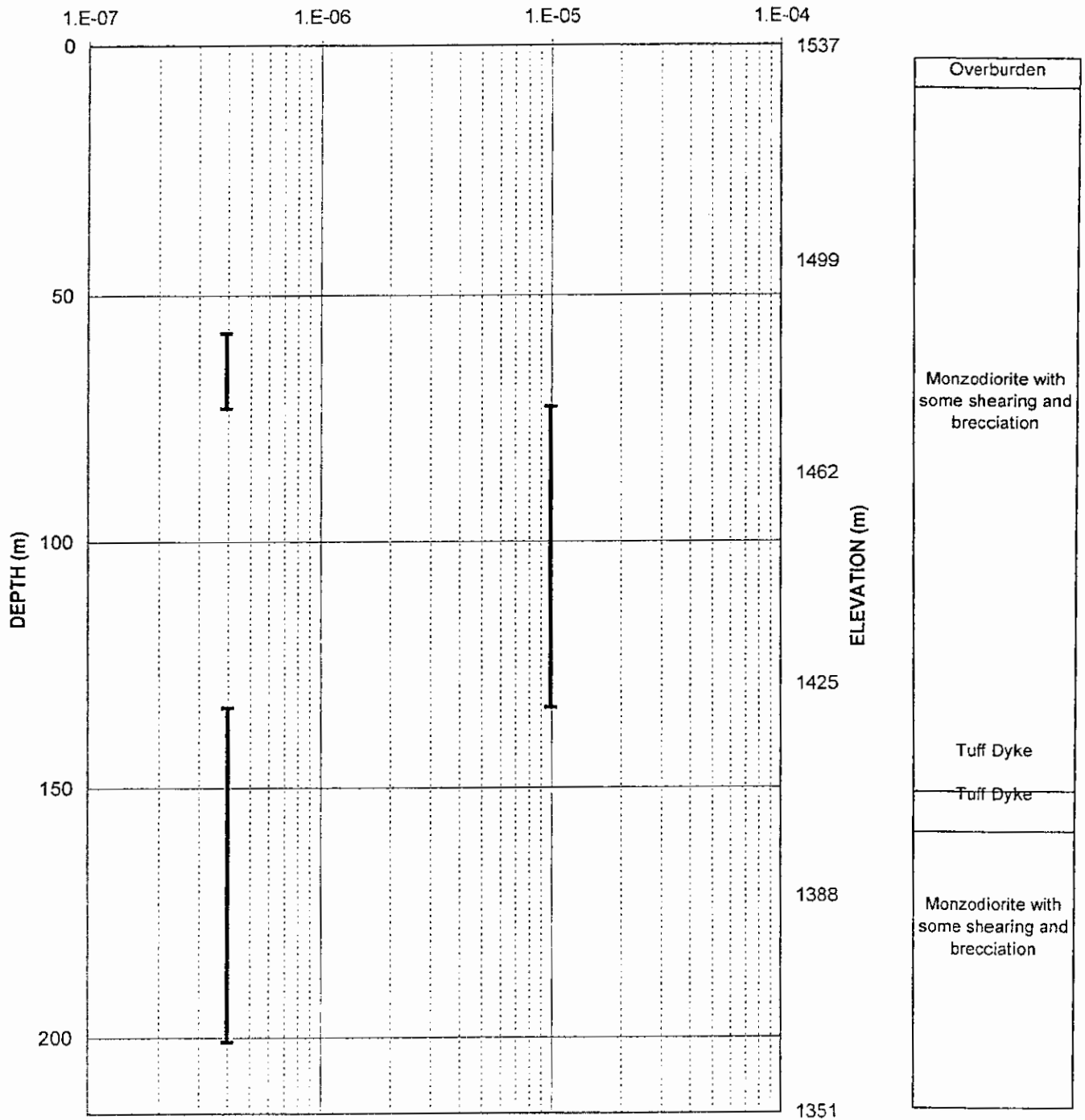
RED CHRIS DEVELOPMENT COMPANY LTD.
 RED CHRIS PROJECT
 COEFFICIENT OF PERMEABILITY VS. DEPTH AND
 ELEVATION FOR DRILL HOLE RCP03-278

Knight Piésold
 CONSULTING

PROJECT ASSIGNMENT NO. VA101-158H	REP. NO. 1	REV. 0
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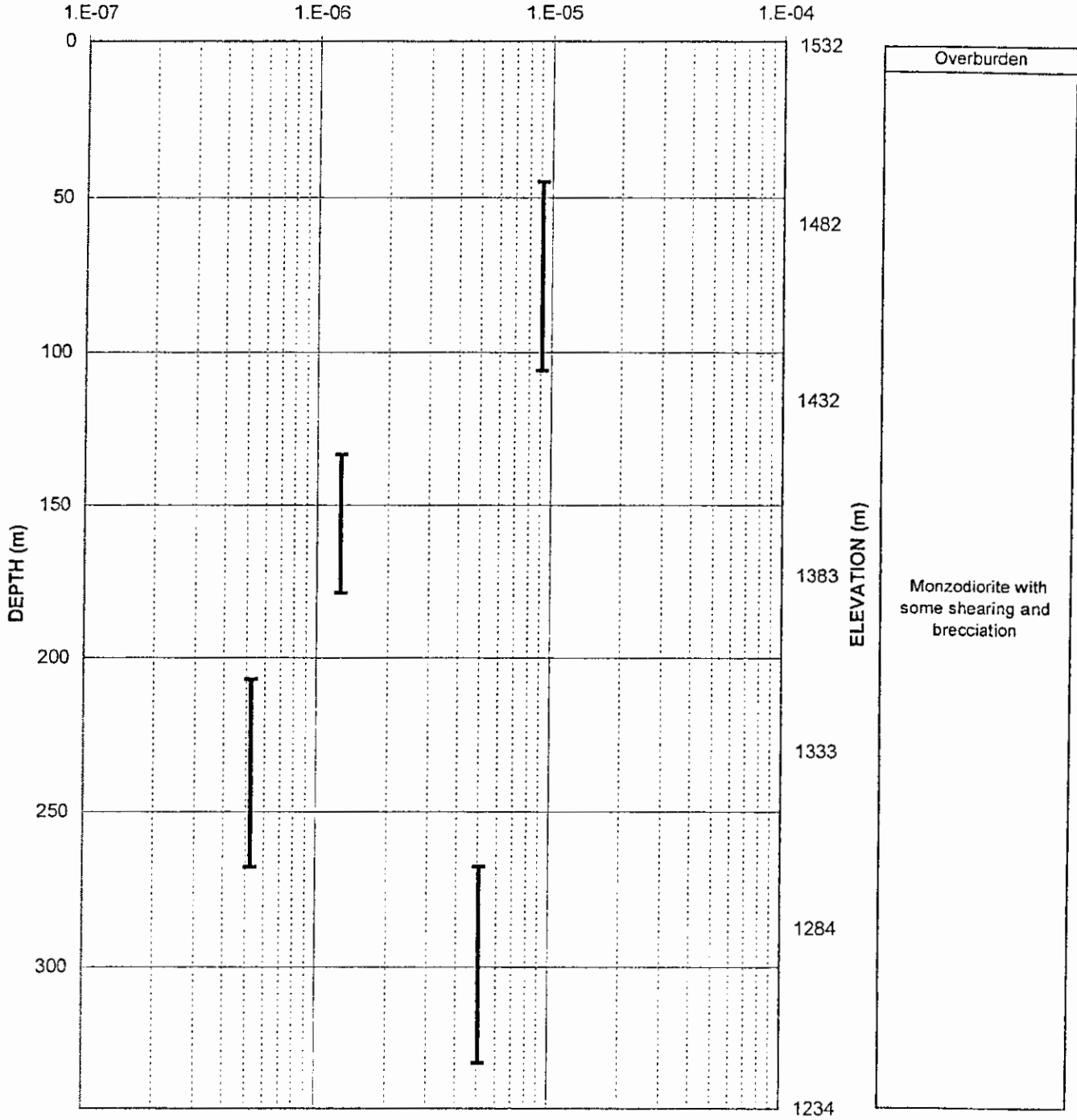
FIGURE 4.17

COEFFICIENT OF PERMEABILITY (cm/s)



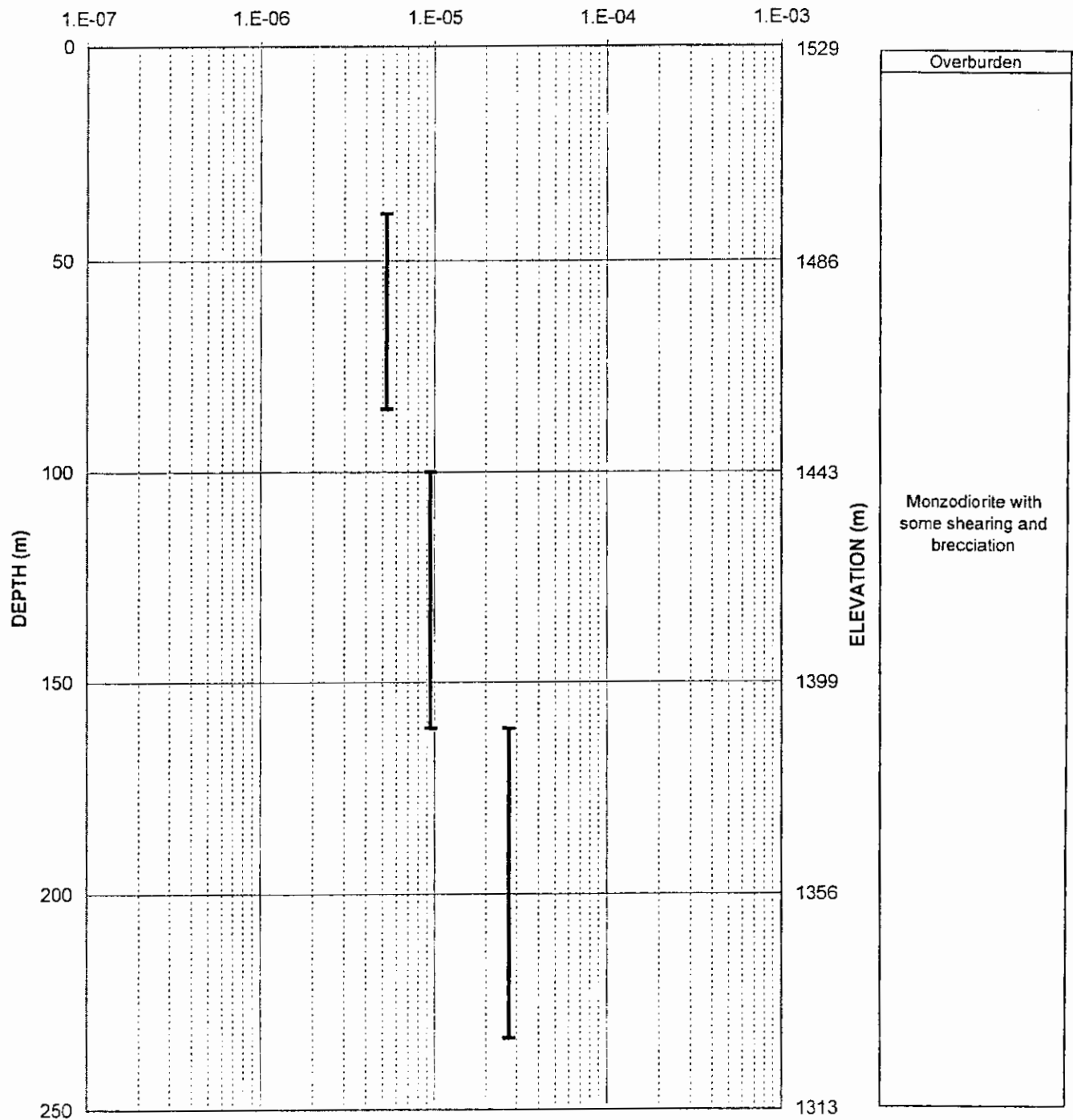
RED CHRIS DEVELOPMENT COMPANY LTD.		
RED CHRIS PROJECT		
COEFFICIENT OF PERMEABILITY vs. DEPTH AND ELEVATION FOR DRILL HOLE RCP03-285		
	PROJECT ASSIGNMENT NO VA101-1591	REV. NO. 1
	REV. 0	
FIGURE 4.18		

COEFFICIENT OF PERMEABILITY (cm/s)



RED CHRIS DEVELOPMENT COMPANY LTD.			
RED CHRIS PROJECT			
COEFFICIENT OF PERMEABILITY vs. DEPTH AND ELEVATION FOR DRILL HOLE RCP03-286			
	PROJECT/ASSIGNMENT NO VA101-159/1	REF NO 1	REV 0
	FIGURE 4.19		

COEFFICIENT OF PERMEABILITY (cm/s)



RED CHRIS DEVELOPMENT COMPANY LTD.

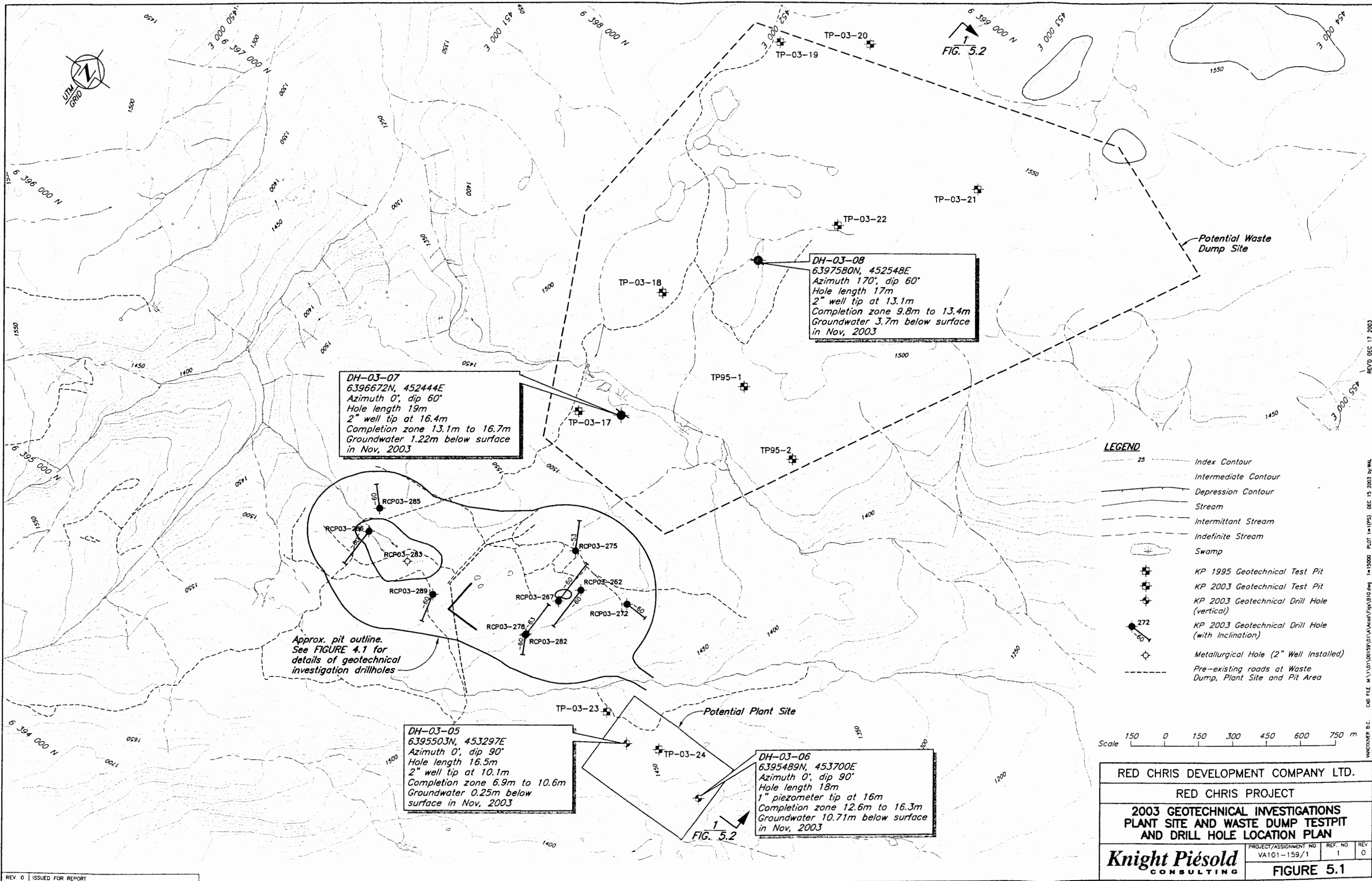
RED CHRIS PROJECT

COEFFICIENT OF PERMEABILITY vs. DEPTH AND
ELEVATION FOR DRILL HOLE RCP03-289

Knight Piésold
CONSULTING

PROJECT / ASSIGNMENT NO. VA101-1591	REF NO. 1	REV D
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FIGURE 4.20



DH-03-07
 6396672N, 452444E
 Azimuth 0°, dip 60°
 Hole length 19m
 2" well tip at 16.4m
 Completion zone 13.1m to 16.7m
 Groundwater 1.22m below surface
 in Nov, 2003

DH-03-08
 6397580N, 452548E
 Azimuth 170°, dip 60°
 Hole length 17m
 2" well tip at 13.1m
 Completion zone 9.8m to 13.4m
 Groundwater 3.7m below surface
 in Nov, 2003

Approx. pit outline.
 See FIGURE 4.1 for
 details of geotechnical
 investigation drillholes

DH-03-05
 6395503N, 453297E
 Azimuth 0°, dip 90°
 Hole length 16.5m
 2" well tip at 10.1m
 Completion zone 6.9m to 10.6m
 Groundwater 0.25m below
 surface in Nov, 2003

DH-03-06
 6395489N, 453700E
 Azimuth 0°, dip 90°
 Hole length 18m
 1" piezometer tip at 16m
 Completion zone 12.6m to 16.3m
 Groundwater 10.71m below surface
 in Nov, 2003

RED CHRIS DEVELOPMENT COMPANY LTD.

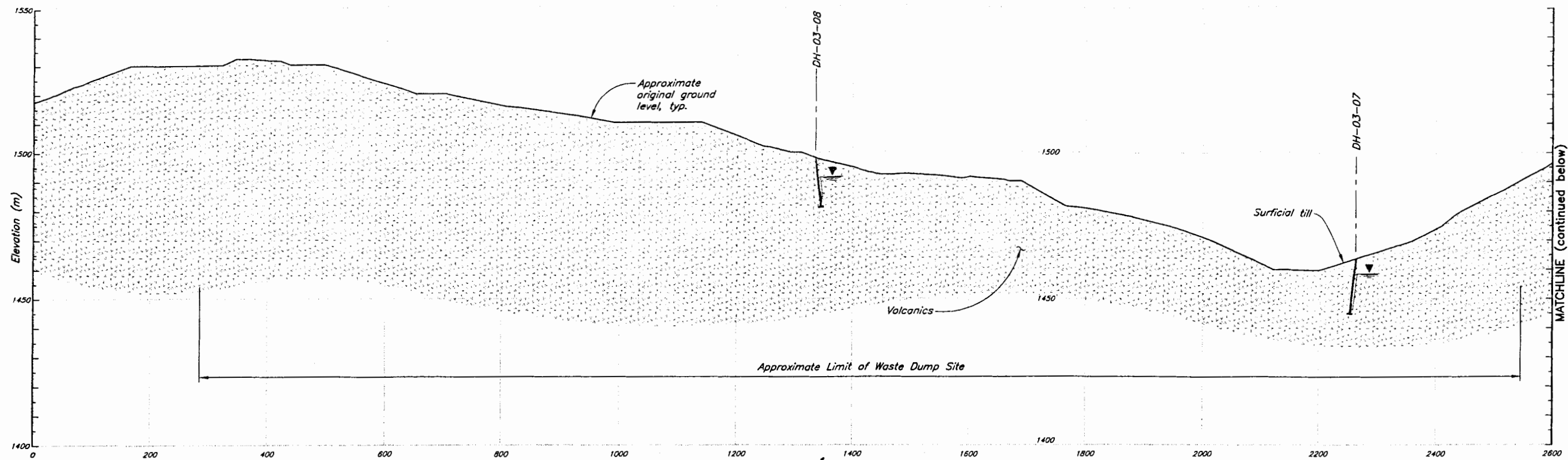
RED CHRIS PROJECT

2003 GEOTECHNICAL INVESTIGATIONS
 PLANT SITE AND WASTE DUMP TESTPIT
 AND DRILL HOLE LOCATION PLAN

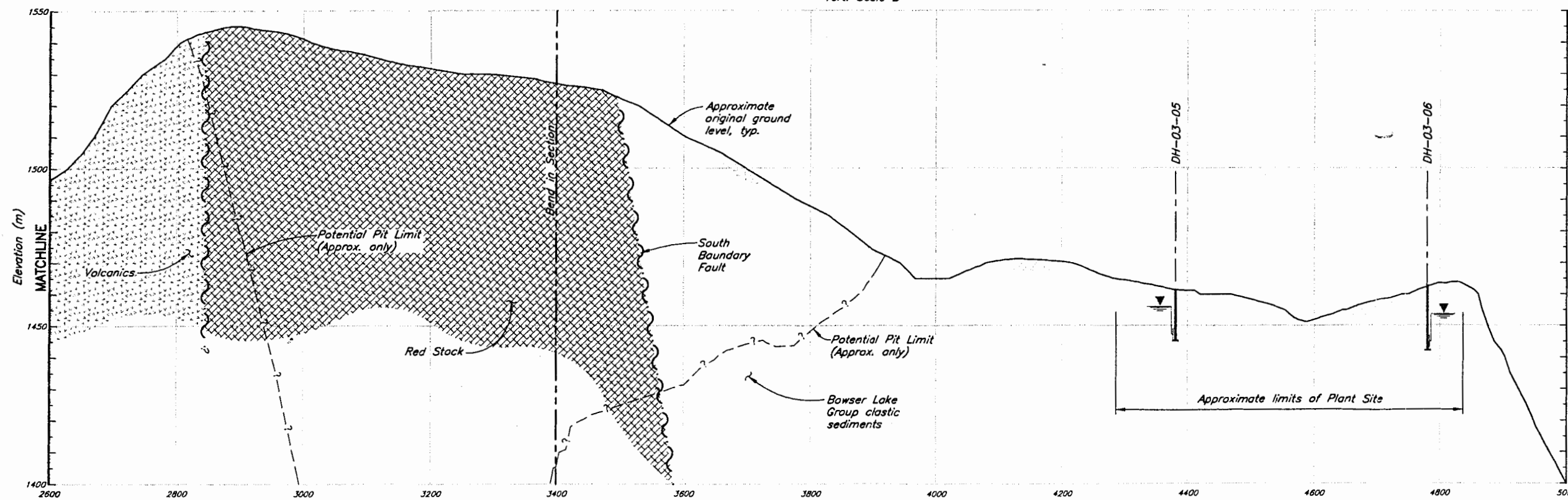
Knight Piésold
 CONSULTING

PROJECT/ASSIGNMENT NO	REF. NO	REV
VA101-159/1	1	0

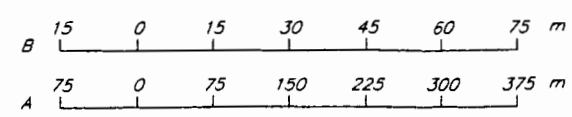
FIGURE 5.1



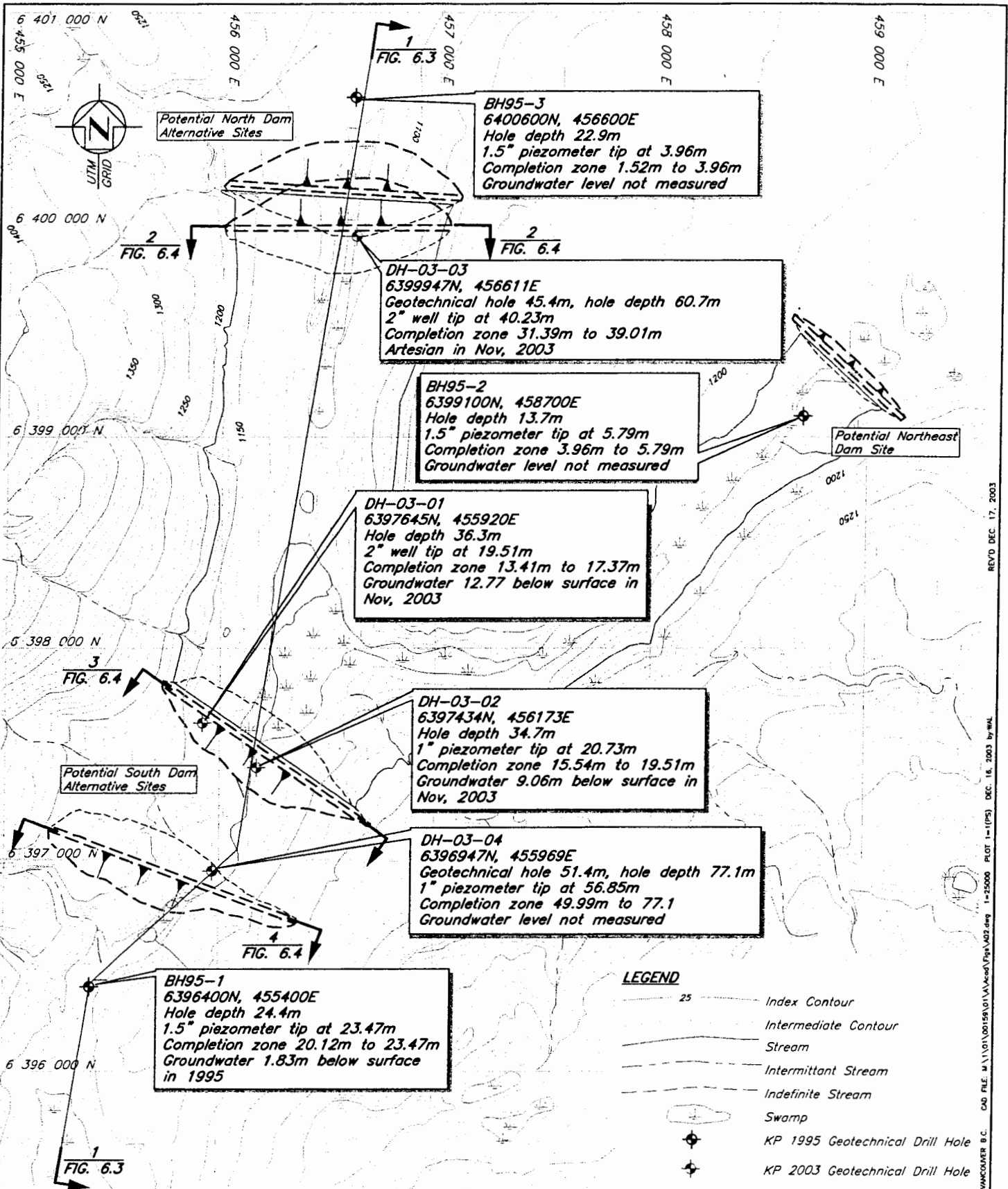
SECTION FIG. 5.1
 Horiz. Scale A
 Vert. Scale B



SECTION FIG. 5.1
 Horiz. Scale A
 Vert. Scale B



RED CHRIS DEVELOPMENT COMPANY LTD.			
RED CHRIS PROJECT			
2003 GEOTECHNICAL INVESTIGATIONS PIT, PLANT SITE AND WASTE DUMP OVERALL SECTION			
Knight Piésold CONSULTING	PROJECT/ASSIGNMENT NO.	REF. NO.	REV.
	VA101-159/1	1	0
FIGURE 5.2			



BH95-3
 6400600N, 456600E
 Hole depth 22.9m
 1.5" piezometer tip at 3.96m
 Completion zone 1.52m to 3.96m
 Groundwater level not measured

DH-03-03
 6399947N, 456611E
 Geotechnical hole 45.4m, hole depth 60.7m
 2" well tip at 40.23m
 Completion zone 31.39m to 39.01m
 Artesian in Nov, 2003

BH95-2
 6399100N, 458700E
 Hole depth 13.7m
 1.5" piezometer tip at 5.79m
 Completion zone 3.96m to 5.79m
 Groundwater level not measured

DH-03-01
 6397645N, 455920E
 Hole depth 36.3m
 2" well tip at 19.51m
 Completion zone 13.41m to 17.37m
 Groundwater 12.77 below surface in Nov, 2003

DH-03-02
 6397434N, 456173E
 Hole depth 34.7m
 1" piezometer tip at 20.73m
 Completion zone 15.54m to 19.51m
 Groundwater 9.06m below surface in Nov, 2003

DH-03-04
 6396947N, 455969E
 Geotechnical hole 51.4m, hole depth 77.1m
 1" piezometer tip at 56.85m
 Completion zone 49.99m to 77.1
 Groundwater level not measured

BH95-1
 6396400N, 455400E
 Hole depth 24.4m
 1.5" piezometer tip at 23.47m
 Completion zone 20.12m to 23.47m
 Groundwater 1.83m below surface in 1995

- LEGEND**
- 25 --- Index Contour
 - Intermediate Contour
 - Stream
 - - - Intermittant Stream
 - - - Indefinite Stream
 - Swamp
 - ◆ KP 1995 Geotechnical Drill Hole
 - ◆ KP 2003 Geotechnical Drill Hole

Scale 250 0 250 500 750 1000 1250 m

RED CHRIS DEVELOPMENT COMPANY LTD.

RED CHRIS PROJECT

2003 GEOTECHNICAL INVESTIGATIONS
 TAILINGS STORAGE FACILITY
 DRILL HOLE LOCATION - PLAN

Knight Piésold
 CONSULTING

PROJECT/ASSIGNMENT NO. VA101-159/1	REF. NO. 1	REV. 0
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FIGURE 6.1

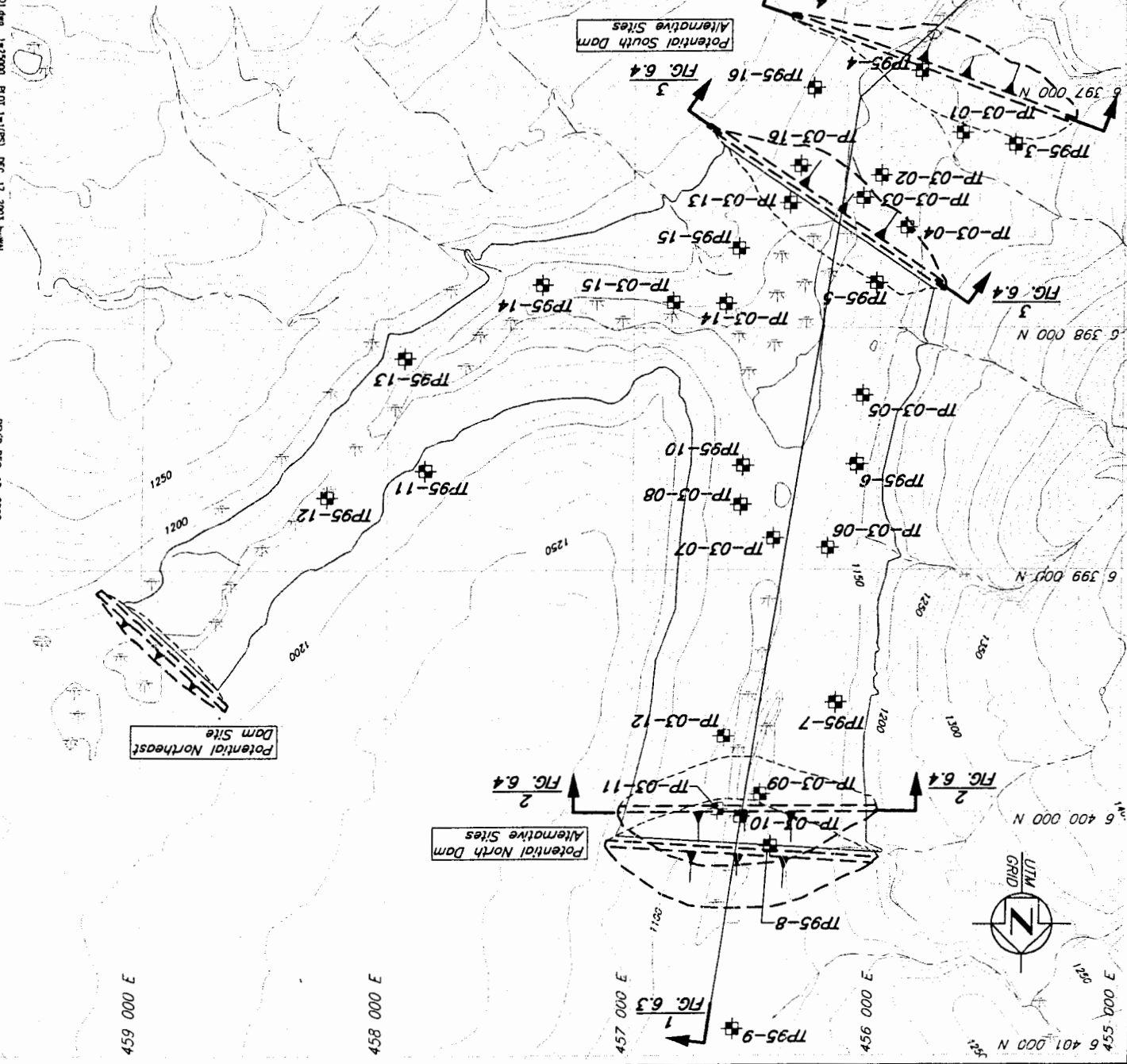
CAD FILE: M:\1\01\00159\01\VA-00\PH\A02.dwg 1-25000 PLOT: 1-1 (EPS) DEC. 16, 2003 by:WAL
 WALKOVER B.C. REV'D DEC. 17, 2003

REV. 0		PROJECT/ASSIGNMENT NO. VA101-159/1		REF. NO. 1		REV. 0	
Knicht Piesold CONSULTING							
2003 GEOTECHNICAL INVESTIGATIONS							
TALINGS STORAGE FACILITY							
TEST PIT LOCATIONS - PLAN							
RED CHRIS PROJECT							
RED CHRIS DEVELOPMENT COMPANY LTD.							

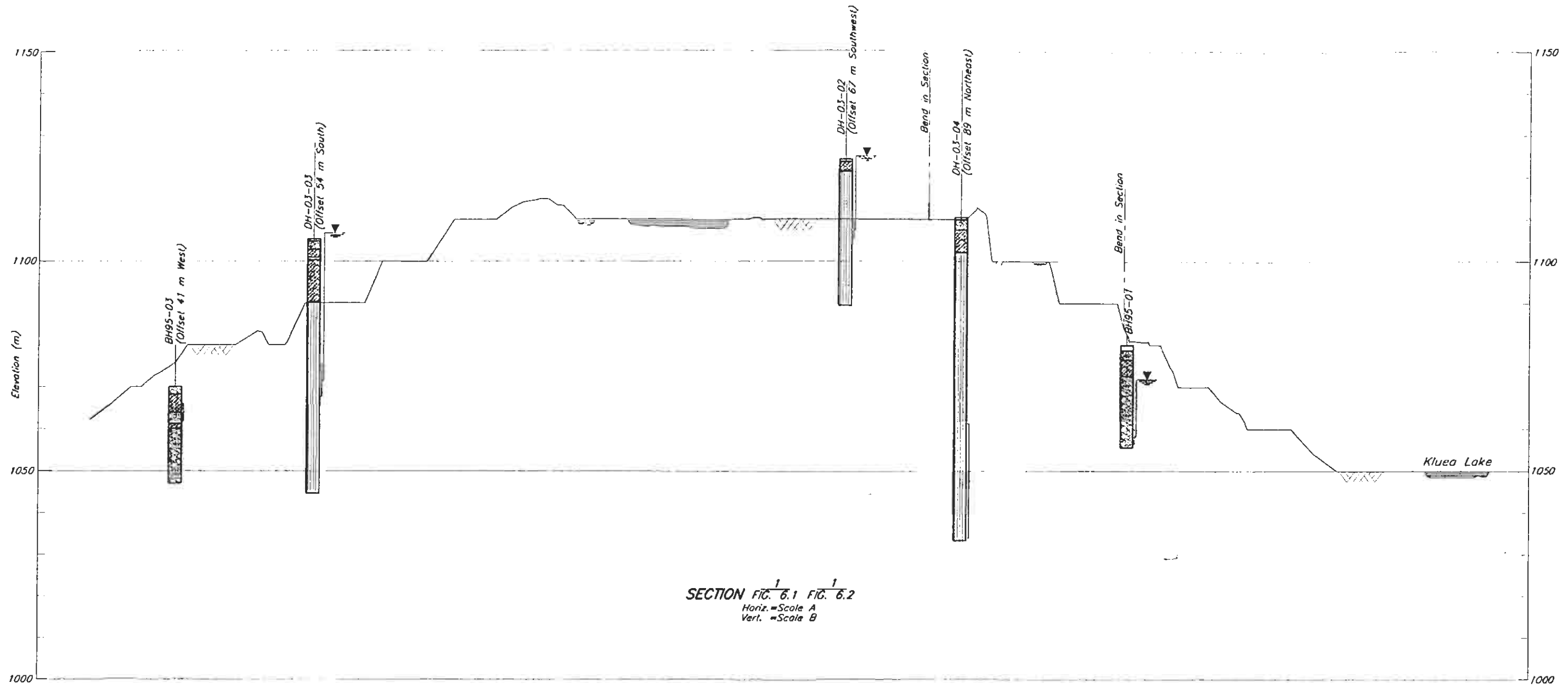
WACOMBER B.C. CAD FILE: M:\1\01\00195\01\Mapcad\Fig\A01.dwg 1=25000 PLOT 1=(P5) DEC. 17, 2003 BY:WAL
 REV'D DEC. 17, 2003

LEGEND

- 25 Index Contour
- Intermediate Contour
- Stream
- Intermittent Stream
- Indefinite Stream
- Swamp
- KP 1995 Geotechnical Test Pit
- KP 2003 Geotechnical Test Pit



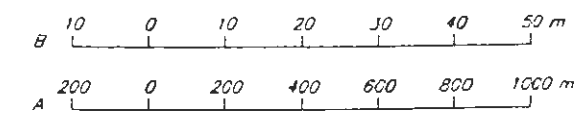
NOTE
 1. Test pit sites recontoured to approximate original ground conditions after digging and logging each pit.



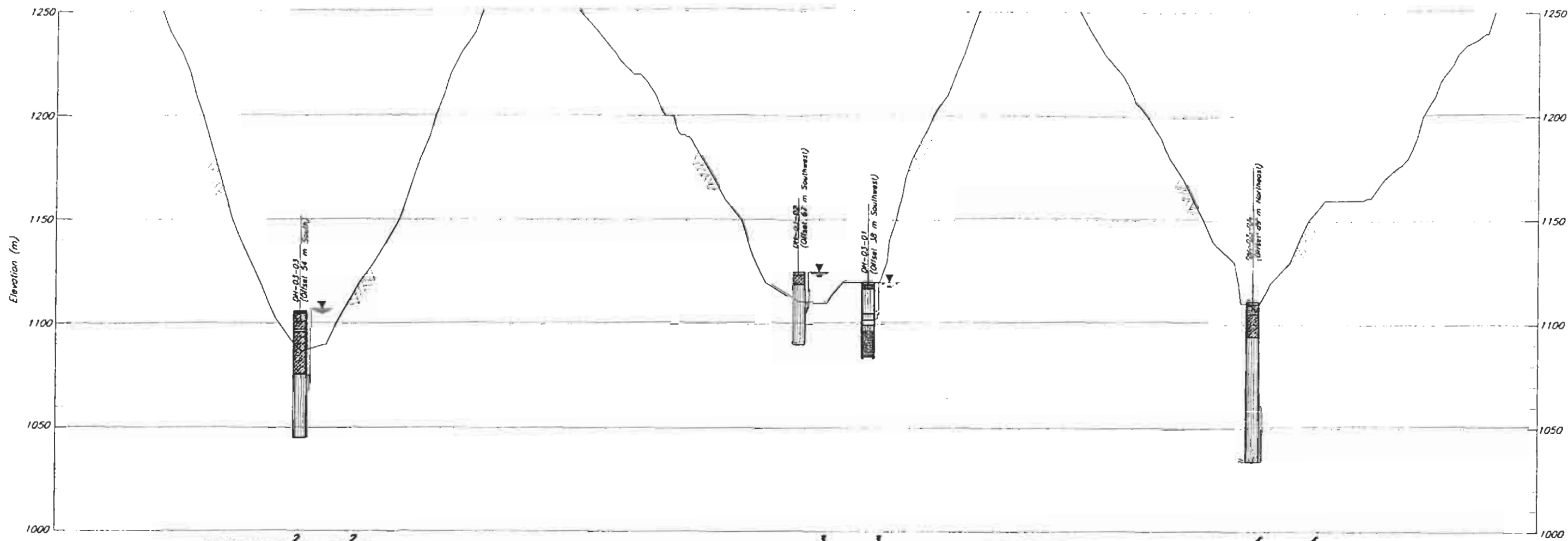
SECTION FIG. 6.1 FIG. 6.2
 Horiz. = Scale A
 Vert. = Scale B

LEGEND

- | | | | |
|--|------------------------------|--|---|
| | Organic top soil | | Sand with some fines and trace gravel |
| | Coarse sand and gravel | | Medium grain sand with low cobbles and pebbles |
| | Very stiff clayey silt | | Lost core |
| | Gravely sand with trace silt | | Dense dark glacial fill with well graded subangular clast |



RED CHRIS DEVELOPMENT COMPANY LTD.	
RED CHRIS PROJECT	
2003 GEOTECHNICAL INVESTIGATIONS TAILINGS STORAGE FACILITY OVERALL SECTION	
Knight Piésold CONSULTING	PROJECT/ASSIGNMENT NO. VA101-159/1 REF. NO. 1 FIGURE 6.3











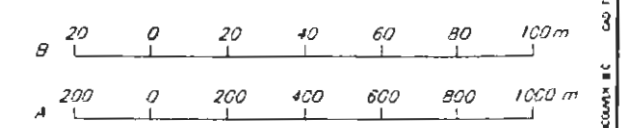
SECTION FIG. 6.1 FIG. 6.2
 NORTH DAM SITE 1
 Horiz. = Scale A
 Vert. = Scale B

SECTION FIG. 6.1 FIG. 6.2
 SOUTH DAM SITE 2
 Horiz. = Scale A
 Vert. = Scale B

SECTION FIG. 6.1 FIG. 6.2
 SOUTH DAM SITE 1
 Horiz. = Scale A
 Vert. = Scale B

LEGEND

-  Organic top silt
-  Coarse sand and gravel
-  Very stiff clayey silt
-  Gravely sand with trace silt
-  Sand with some lines and trace gravel
-  Medium grain sand with few cobbles and pebbles
-  Last core
-  Dense dark glacial fill with well graded subangular clast



RED CHRIS DEVELOPMENT COMPANY LTD.		
RED CHRIS PROJECT		
2003 GEOTECHNICAL INVESTIGATIONS TAILINGS STORAGE FACILITY CROSS VALLEY SECTIONS		
	PROJECT/ASSIGNMENT NO. VA101-159/1	REV. NO. 1
		

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