

APPENDIX 2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,750

Part 3 of 3

FILMED

1797

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: NORTH BRENDA

CODE : 8706-046

Project No. : 1001

Sheet: 1 of 3

Date rec'd: JUN. 10

Project Name: 154 SOILS &

Geol.: R. B.

Date compl: JUN. 18

Remarks: 1 SILT

Values in PPM, except where noted.

SAMPLE No.	PPM						Au	SOIL TYPE
	Cu	Zn	Pb	Ag	As	Mo		
240N-20E	12	38	2	0.2	1	1	10	B
50	20	42	1	0.2	1	2	10	"
112	18	48	1	0.2	1	2	10	"
218	28	38	1	0.2	1	8	10	"
250	16	48	1	0.2	1	2	10	"
300	14	26	1	0.2	1	12	10	"
358	12	30	1	0.2	1	26	10	C minor org.
400	62	56	1	0.2	1	8	10	C clayey
500	10	40	1	0.2	1	1	10	B
550	14	50	1	0.2	1	1	10	"
600	12	40	1	0.2	1	1	10	"
650	14	46	1	0.2	1	1	10	"
700	18	34	1	0.2	1	1	10	"
850	26	40	1	0.2	1	2	10	C
900	30	38	1	0.2	1	1	10	C
950	18	34	1	0.2	1	1	10	C
240N-1000E	28	34	1	0.2	1	1	10	B
240N-50W	280	44	1	0.4	1	6	10	"
100	16	40	1	0.2	1	1	10	"
150	20	38	1	0.2	1	1	10	"
200	12	48	1	0.2	1	1	10	"
250	14	36	1	0.2	1	1	10	"
300	24	54	1	0.2	1	1	10	"
350	14	44	1	0.2	1	1	10	"
400	18	58	1	0.2	1	1	10	"
450	16	70	1	0.2	1	1	10	"
500	48	56	1	0.2	1	2	10	"
550	160	62	1	0.4	4	2	10	"
240N-600W	110	20	1	0.2	4	1	10	"
244N-20E	170	38	2	0.2	8	18	10	" slightly org.
100	160	56	1	0.2	4	12	10	"
158	16	24	1	0.2	1	4	10	"
250	14	36	1	0.2	1	2	10	"
300	10	32	1	0.2	1	1	10	"
350	650	50	2	0.6	1	4	10	C clayey & org.
400	16	60	1	0.2	8	1	10	B
450	10	52	2	0.2	12	1	10	"
500	14	54	1	0.2	8	1	10	"
550	12	52	1	0.2	8	1	10	"
600	12	54	2	0.2	1	1	10	"
650	14	52	1	0.2	1	1	10	"
690	54	38	1	0.2	4	1	10	"
750	32	40	1	0.4	1	1	10	C
800	54	32	2	0.4	4	1	10	C very organic
850	18	20	1	0.2	4	1	10	"
900	14	42	2	0.2	8	1	10	C
950	16	40	1	0.2	4	1	10	B
244N-1000E	14	38	1	0.2	1	1	10	B

SAMPLE No.	Cu	Zn	Pb	Ag	As	Mo	PPB B706-046	
							Au	Pg. 2 of 3
244N-50W	20	54	1	0.2	1	4	10	B
100	14	56	4	0.2	12	1	10	"
150	12	64	2	0.2	1	1	10	"
200	12	56	2	0.2	8	1	10	"
250	14	48	4	0.2	4	1	10	"
300	24	68	2	0.2	1	1	10	"
350	14	64	2	0.2	4	1	10	"
400	16	48	2	0.2	1	1	10	"
450	30	62	1	0.2	4	1	10	"
500	38	30	1	0.2	8	1	10	C
550	16	52	1	0.2	8	1	10	B
244N-600W	22	56	1	0.2	1	1	10	"
248N-120E	16	46	1	0.2	8	1	10	"
50	16	56	1	0.2	8	1	10	"
100	16	62	1	0.2	1	1	10	"
150	12	40	1	0.2	1	1	10	"
200	26	70	1	0.2	1	2	10	"
250	18	52	1	0.2	1	1	10	"
300	46	46	1	0.2	8	1	10	"
350	14	54	1	0.2	4	1	10	"
400	12	58	1	0.2	1	1	10	"
450	12	48	2	0.2	1	1	10	"
500	12	54	1	0.2	1	1	10	"
550	14	50	1	0.2	1	1	10	"
600	12	46	1	0.2	1	1	10	"
650	50	40	1	0.2	4	1	10	" slightly org.
700	20	42	1	0.2	1	1	10	"
750	16	40	1	0.2	1	1	10	"
800	14	40	1	0.2	8	1	10	"
850	12	38	1	0.2	1	1	10	"
900	14	42	1	0.2	1	1	10	"
950	14	46	1	0.2	1	1	10	"
248N-1000E	12	46	1	0.2	1	1	10	"
248N-50W	12	44	1	0.2	1	1	10	"
100	18	48	1	0.2	1	1	10	"
150	24	46	1	0.2	1	1	10	"
200	18	42	1	0.2	1	1	10	"
250	20	72	1	0.2	1	2	10	"
300	200	80	1	0.4	4	20	10	"
350	20	56	1	0.2	8	2	10	"
400	120	54	1	0.2	1	12	10	"
450	240	90	1	0.2	1	18	10	"
500	22	42	1	0.2	1	2	10	C
550	20	52	1	0.2	1	1	10	B
248N-600W	24	48	1	0.2	1	2	10	"
252N-120E	20	40	1	0.2	1	1	10	"
252N-50W	10	46	1	0.2	1	1	10	"
100	14	46	1	0.2	1	1	10	"
150	12	50	1	0.2	1	1	10	"
200	14	54	1	0.2	1	1	10	"
250	14	40	1	0.2	1	4	10	"
300	12	50	1	0.2	4	1	10	"
350	60	50	1	0.2	4	8	10	C minor org.
400	18	84	1	0.2	4	2	10	B
450	16	70	1	0.2	4	1	10	"
500	16	56	1	0.2	1	1	10	"
252N-550W	14	56	1	0.2	1	1	10	"

SAMPLE No.	Cu	Zn	Pb	Ag	As	Mo	PPR 8706-046	
							Au	Pg. 3 of 3
252N-600W	26	54	1	0.2	1	1	10	C
200N-000E	110	46	1	0.4	1	1	10	B
25	130	48	1	0.4	1	2	10	B
50	500	46	1	0.4	1	10	10	B
75	220	44	1	1.6	1	30	10	B
100	450	72	1	0.8	1	14	10	B
135	1300	52	1	0.4	1	36	10	C slightly or
150	78	40	1	0.4	1	4	10	B
175	18	36	1	0.2	1	1	10	B
200	36	36	1	0.2	1	1	10	B
225	14	44	1	0.2	1	1	10	B
250	14	36	1	0.2	4	1	10	B
275	14	38	1	0.2	1	1	10	B
300	16	46	2	0.2	1	1	10	B
325	16	48	2	0.2	1	1	10	B
350	14	34	1	0.2	8	1	10	B
375	14	48	1	0.2	1	1	10	B
400	14	40	2	0.2	1	1	10	B
200N-425E	32	36	2	0.2	1	6	10	B
200N-25W	130	54	1	0.4	1	4	10	B
50	100	56	2	0.4	1	4	10	B
75	260	70	2	0.2	1	4	10	B
100	530	82	2	0.2	1	22	10	B
125	28	48	4	0.2	1	1	10	B
150	22	42	1	0.2	1	1	10	B
175	52	42	2	0.2	1	4	10	B
200	44	56	2	0.2	1	2	10	B
225	36	58	2	0.2	1	2	10	B
200N-250W	18	60	2	0.2	1	2	10	B
300N-000W	170	56	4	0.2	8	2	10	B
25	120	52	2	0.4	4	8	10	B
50	100	50	2	0.4	1	4	10	B
75	68	42	1	0.2	1	4	10	B
100	120	50	2	0.4	4	10	10	B
125	140	38	4	0.2	1	64	10	C slightly or
150	140	58	2	0.2	1	8	10	B
175	52	50	2	0.2	1	2	10	B
200	40	48	2	0.4	1	4	10	B
225	46	56	2	0.2	1	2	10	B
300N-250W	50	54	2	0.2	1	2	10	B
300N-25E	460	40	1	0.2	1	16	10	B
75	50	42	2	0.2	1	4	10	B
100	40	48	1	0.2	4	1	10	B
125	24	36	1	0.2	1	2	10	B
150	16	44	1	0.2	4	1	10	C sandy
175	14	40	2	0.2	1	1	120	B
200	140	54	2	0.2	1	4	10	B
225	16	58	2	0.2	1	1	10	B
300N-250E	18	54	1	0.2	1	1	10	B
SILT RB 87127	20	48	1	0.2	1	2	10	B

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: NORTH BRENDA

CODE : 8707-082

Object No. : 1001
 Material : SOIL
 Remarks :

Sheet: 1 of 2
 Geol.: R.B.

Date rec'd: JUL.14
 Date compl: JUL.28

Values in PPM, except where noted.

SAMPLE No.	PPM						PPB	
	Cu	Zn	Pb	Ag	As	Mo	Au	
100S - 250E	26	48	1	0.2	4	2	10	B
225	18	62	1	0.2	1	2	10	B
200	58	68	1	0.4	1	2	10	B
175	250	52	1	0.2	10	12	10	B minor org.
150E	240	42	1	0.2	4	2	10	C clay mnr org
100S - 075W	200	42	1	0.2	16	12	10	B slightly org
100	26	44	1	0.2	1	2	10	B
125	28	52	1	0.2	1	6	10	B
150	22	74	1	0.2	2	4	10	B
175	20	56	1	0.2	1	2	10	C minor org.
200	20	46	1	0.2	1	6	10	C sandy
225	20	50	1	0.2	1	4	10	C sandy
100S - 250W	20	48	1	0.2	1	4	10	B
000 - 250E	14	40	1	0.2	1	2	10	B
228	630	44	1	0.2	10	6	10	C clayey, org.
175	22	48	1	0.2	2	6	10	B
150	10	60	1	0.2	1	4	10	C clay
125	24	50	1	0.2	6	20	10	C
100	20	42	1	0.2	10	4	10	B
75	20	48	1	0.2	8	4	10	B
100N - 25E	110	52	1	0.2	8	10	10	B
100N - 250E	16	46	1	0.2	6	4	10	B
225	16	42	1	0.2	6	2	10	B
200	16	40	1	0.2	4	2	10	B
175	20	50	1	0.2	10	2	10	B
145	700	46	1	0.2	8	32	10	B
125	24	48	1	0.2	10	4	10	B
100	20	48	1	0.2	12	2	10	B
75	26	50	1	0.2	10	2	10	B
100N - 50E	26	58	1	0.2	10	2	10	B
100N - 200W	22	30	1	0.2	6	1	10	C clayey
225	36	56	1	0.2	8	4	10	B
100N - 250W	18	66	1	0.2	6	4	10	B
400N - 250E	140	40	1	0.2	10	10	10	B
225	120	38	1	0.2	16	6	10	B
200	68	50	1	0.2	12	6	10	B
175	74	60	1	0.2	14	6	10	B
150	130	56	1	0.2	6	10	10	B
125	160	64	1	0.2	4	18	10	B
100	140	56	1	0.2	1	12	10	B
75	84	54	1	0.2	6	8	10	B
400N - 50E	350	60	1	0.2	6	16	10	B
400N - 25E	290	60	1	0.4	4	20	10	B
400N - BL	150	54	2	0.2	6	14	10	B
400N - 25W	140	48	1	0.2	4	12	10	B
50	130	52	1	0.4	1	12	10	B
75	100	54	1	0.2	1	14	10	B
400N - 100W	60	40	1	0.2	10	6	10	B

SAMPLE No.	Cu	Zn	Pb	Ag	As	Mo	PPB	8707-082
							Au	Pg. 2 of 2
400N - 125W	100	50	1	0.4	6	12	10	B
900N - 50E	90	42	1	0.2	1	10	10	"
25	140	54	1	0.2	8	8	10	"
900N - 03E	64	48	1	0.2	8	12	10	"
900N - 25W	82	44	2	0.4	8	14	10	"
47	1800	44	1	0.4	10	66	10	" slightly org.
125	40	42	1	0.2	1	6	10	"
150	48	50	1	0.2	8	6	10	"
175	130	64	2	0.2	6	14	10	"
200	48	40	1	0.2	6	4	10	"
225	42	48	1	0.2	4	4	10	"
250	44	44	1	0.2	6	4	10	"
900N - 275W	18	40	1	0.2	1	4	10	"
227W 0+24N	38	24	1	0.2	4	12	30	"
223W 0+42N	58	36	1	0.2	12	4	10	"

APPENDIX 3

BRENDA MINES LTD
ASSAY LAB REPORT

SAMPLES:NORTH BRENDA EXPORATION 1987

FILE NAME:NBHOLE1.RPT

DATE REPORTED:26/8/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	0.003	0.008	0.018	2.8
5-10	0.002	0.003	0.027	4.9
10-15	0.003	0.002	0.004	3.1
15-20	0.029	0.003	0.480	1.4
20-25	0.006	0.002	0.086	2.7
25-30	0.005	0.002	0.039	2.8
30-35	0.004	0.002	0.031	6.5
35-40	0.003	0.002	0.039	3.9
40-45	0.003	0.001	0.045	1.7
45-50	0.003	0.002	0.039	3.2
50-55	0.005	0.001	0.043	4.2
55-60	0.002	0.001	0.018	3.9
60-65	0.002	0.001	0.016	3.7
65-70	0.002	0.001	0.015	4.1
70-75	0.002	0.001	0.007	4.2
75-80	0.003	0.001	0.016	3.4
80-85	0.003	0.002	0.023	4.3
85-90	0.002	0.001	0.005	4.6
90-95	0.002	0.001	0.003	4.7
95-100	0.009	0.001	0.030	3.9
100-105	0.004	0.001	0.021	4.3
105-110	0.004	0.001	0.046	4.2

110-115	0.003	<.001	0.030	6.3
115-120	0.002	0.001	0.005	9.2
120-125	0.002	0.001	0.008	12.2
125-130	0.002	0.002	0.030	8.9
130-135	0.007	0.001	0.039	14.6
135-140	0.002	0.001	0.033	3.8
140-145	0.003	0.001	0.011	9.9
145-150	0.005	0.002	0.013	3.8
150-155	0.007	0.001	0.003	6.7
155-160	0.005	0.001	0.003	7.1
160-165	0.004	0.001	0.021	8.9
165-170	0.004	0.001	0.010	3.3
170-175	0.002	0.001	0.012	4.9
175-180	0.002	<.001	0.168	1.8
180-185	0.001	0.001	0.517	6.3
185-190	0.001	0.001	0.013	1.0
190-195	0.001	0.001	0.046	5.2
395-200	0.001	0.002	0.115	6.1
200-205	0.001	<.001	0.021	5.6
205-210	0.001	0.001	0.021	4.0
210-215	0.001	0.001	0.023	5.4
215-220	0.002	<.001	0.025	6.1
220-225	0.001	0.001	0.010	2.5
225-230	0.002	<.001	0.025	13.7
230-235	0.001	<.001	0.029	13.2
235-240	0.001	<.001	0.027	16.7
240-245	0.001	0.001	0.014	12.7
245-250	0.002	0.002	0.040	9.3
250-255	0.001	0.001	0.011	9.3

255-260	0.006	0.001	0.056	7.4
260-265	0.005	0.001	0.194	11.2
265-270	0.002	0.001	0.028	9.9
270-275	0.001	0.002	0.021	6.1
275-280	0.001	0.001	0.015	9.7
280-285	0.002	0.003	0.011	5.0
285-290	0.001	0.003	0.009	10.9
290-295	0.001	0.002	0.013	4.9
295-300	0.001	0.002	0.013	10.4



DEREK PERKINS
CHIEF CHEMIST

BRENDA MINES LTD
ASSAY LAB REPORT

SAMPLES:NORTH BRENDA EXPORATION 1987


FILE NAME:NBHOLE2.RPT

DATE REPORTED:31/8/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	NO	SAMPLE		
5-10	NO	SAMPLE		
10-15	0.001	0.003	0.039	3.2
15-20	0.003	0.001	0.059	6.2
20-25	0.004	0.001	0.088	9.8
25-30	0.007	0.001	0.100	7.6
30-35	0.005	0.002	0.083	8.1
35-40	0.013	0.001	0.160	10.6
40-45	0.007	0.002	0.204	9.4
45-50	0.003	0.001	0.086	8.4
50-55	0.011	0.001	0.137	10.2
55-60	0.010	0.002	0.145	10.6
60-65	0.007	0.001	0.098	5.6
65-70	0.003	0.001	0.079	16.3
70-75	0.003	0.001	0.093	8.3
75-80	0.003	0.001	0.070	10.2
80-85	0.001	0.002	0.048	7.1
85-90	0.008	0.001	0.130	3.5
90-95	0.039	0.001	0.136	6.0
95-100	0.020	0.001	0.152	6.2
100-105	0.040	0.002	0.057	10.8
105-110	0.013	0.001	0.766	8.8

110-115	0.017	0.001	0.159	6.6
115-120	0.009	0.001	0.132	7.5
120-125	0.005	0.001	0.090	13.9
125-130	0.011	0.001	0.136	9.3
130-135	0.018	0.001	0.195	14.6
135-140	0.004	0.001	0.142	6.5
140-145	0.003	0.001	0.083	5.6
145-150	0.002	0.001	0.049	7.2
150-155	0.001	0.002	0.022	9.7
155-160	0.002	0.001	0.045	2.1
160-165	0.002	0.001	0.289	11.7
165-170	0.012	0.002	0.159	7.6
170-175	0.007	0.001	0.090	6.4
175-180	0.015	0.001	0.017	6.5
180-185	0.019	0.002	0.023	5.9
185-190	0.011	0.002	0.056	5.5
190-195	0.003	0.001	0.048	6.0
195-200	0.002	0.001	0.031	7.3
200-205	0.002	0.002	0.024	7.2
205-210	0.002	0.001	0.021	5.2
210-215	0.001	0.001	0.005	6.8
215-220	<.001	0.001	0.004	6.7
220-225	0.001	0.001	0.010	6.9
225-230	0.018	0.002	0.050	13.7
230-235	0.027	0.001	0.038	7.5
235-240	0.006	0.001	0.010	7.5
240-245	0.003	0.001	0.027	4.7
245-250	0.002	0.001	0.022	11.7
250-255	0.002	0.001	0.389	8.0

255-260	0.002	0.001	0.839	9.2
260-265	0.003	0.001	0.465	7.6
265-270	<.001	0.001	0.052	13.7
270-275	0.001	0.001	0.033	10.9
275-280	0.002	0.004	0.104	11.1
280-285	0.008	0.002	0.083	12.8
285-290	0.001	0.002	0.010	10.4
290-295	<.001	0.001	0.022	10.1
295-300	0.030	0.002	0.031	9.1



 DEREK PERKINS
 CHIEF CHEMIST

BRENDA MINES LTD
ASSAY LAB REPORT

SAMPLES:NORTH BRENDA EXPROATION 1987

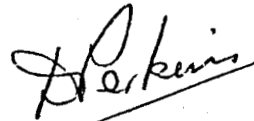
FILE NAME:NBHOLE3.RPT

DATE REPORTED:31/8/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	0.007	0.001	0.034	1.8
5-10	0.009	0.002	0.037	3.6
10-15	0.006	0.002	0.025	4.9
15-20	0.008	0.001	0.018	4.1
20-25	0.005	0.001	0.011	2.6
25-30	0.009	0.002	0.039	2.4
30-35	0.010	0.001	0.005	2.6
35-40	0.003	0.001	0.008	2.3
40-45	0.002	0.001	0.009	3.5
45-50	0.004	0.001	0.026	3.7
50-55	0.002	0.001	0.014	3.7
55-60	0.001	0.001	0.006	2.9
60-65	0.001	0.001	0.011	3.3
65-70	0.001	0.001	0.004	2.6
70-75	0.001	0.002	0.003	2.2
75-80	0.002	0.001	0.055	2.5
80-85	0.003	0.001	0.028	3.4
85-90	0.002	0.001	0.012	2.8
90-95	0.001	0.001	0.011	3.4
95-100	0.002	0.001	0.019	2.2
100-105	0.002	<.001	0.029	6.5
105-110	0.003	0.001	0.045	6.4

110-115	0.006	0.001	0.022	6.3
115-120	0.003	0.001	0.140	5.2
120-125	0.002	0.001	0.022	7.6
125-130	0.002	0.002	0.023	6.7
130-135	0.001	0.001	0.035	6.7
135-140	0.001	0.001	0.019	5.1
140-145	0.002	0.001	0.023	7.6
145-150	0.002	0.001	0.018	6.2
150-155	0.002	0.001	0.061	6.3
155-160	0.002	0.001	0.025	8.8
160-165	0.001	0.001	0.014	7.4
165-170	0.001	0.001	0.011	9.5
170-175	0.004	0.001	0.083	7.2
175-180	0.003	0.001	0.022	6.2
180-185	0.001	0.001	0.022	6.9
185-190	0.002	0.001	0.028	9.2
190-195	0.001	0.001	0.016	7.1
195-200	0.004	0.001	0.029	6.2
200-205	0.004	0.001	0.048	7.9
205-210	0.002	0.002	0.021	8.0
210-215	0.001	0.001	0.004	7.5
215-220	0.002	0.001	0.045	6.7
220-225	0.001	0.001	0.013	7.9
225-230	0.001	0.002	0.018	10.5
230-235	0.001	0.001	0.010	5.3
235-240	0.002	0.001	0.007	4.4
240-245	0.001	0.001	0.003	4.8
245-250	0.001	0.002	0.005	6.9
250-255	0.005	0.001	0.069	7.8

255-260	0.002	0.001	0.050	7.8
260-265	0.001	0.001	0.021	9.3
265-270	0.001	0.001	0.014	6.9
270-275	0.001	0.001	0.005	10.0
275-280	0.001	0.001	0.005	6.0
280-285	0.001	0.001	0.004	10.1
285-290	0.001	0.001	0.003	10.2
290-295	0.004	0.001	0.003	4.4
295-300	0.001	0.001	0.046	5.9



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ASSAY LAB REPORT

SAMPLES:NORTH BRENDA EXPORATION 1987


FILE NAME:NBHOLE4.RPT

DATE REPORTED:31/8/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	0.001	0.002	0.029	3.6
5-10	0.001	0.003	0.036	1.9
10-15	0.011	0.004	0.085	1.9
15-20	0.003	0.001	0.039	2.6
20-25	0.005	0.001	0.055	9.0
25-30	0.004	0.001	0.027	1.7
30-35	0.003	0.001	0.032	1.7
35-40	0.003	0.001	0.018	1.5
40-45	0.002	0.001	0.006	3.5
45-50	0.003	0.002	0.023	4.0
50-55	0.003	0.001	0.035	3.9
55-60	0.006	0.001	0.038	4.2
60-65	0.036	0.001	0.085	4.0
65-70	0.003	0.001	0.033	6.3
70-75	0.005	0.001	0.047	3.0
75-80	0.002	0.001	0.025	7.3
80-85	0.001	0.001	0.039	7.3
85-90	0.004	0.001	0.042	6.4
90-95	0.004	0.001	0.055	6.6
95-100	0.004	0.001	0.044	3.0
100-105	0.008	0.001	0.021	6.0
105-110	0.002	0.001	0.005	1.0

110-115	0.002	0.001	0.034	3.0
115-120	0.003	0.001	0.047	9.7
120-125	0.002	0.001	0.034	10.5
125-130	0.010	0.001	0.038	8.9
130-135	0.004	0.001	0.017	11.1
135-140	0.001	0.001	0.009	11.0
140-145	0.001	0.001	0.026	14.6
145-150	0.001	0.002	0.033	13.4
150-155	0.002	0.001	0.035	14.8
155-160	<.001	0.001	0.118	11.3
160-165	0.002	0.001	0.036	13.4
165-170	0.001	0.002	0.033	14.3
170-175	0.001	0.001	0.009	12.5
175-180	<.001	0.002	0.013	12.4
180-185	<.001	0.001	0.021	20.0
185-190	<.001	0.002	0.014	7.5
190-195	<.001	0.001	0.011	14.5
195-200	<.001	0.001	0.007	13.9
200-205	<.001	0.001	0.007	16.3
205-210	<.001	0.004	0.005	10.4
210-215	<.001	0.001	0.006	10.9
215-220	<.001	0.001	0.003	9.8
220-225	0.001	0.001	0.005	9.9
225-230	<.001	0.001	0.003	9.1
230-235	<.001	0.001	0.008	12.8
235-240	0.002	0.001	0.002	7.5
240-245	0.003	0.001	0.006	15.2
245-250	0.002	0.002	0.007	11.1
250-255	0.002	0.003	0.033	13.0

255-260	<.001	0.001	0.011	9.2
260-265	0.012	0.001	0.021	16.1
265-270	0.017	0.001	0.036	12.5
270-275	0.003	0.001	0.005	12.6
275-280	0.004	0.001	0.011	10.4
280-285	0.002	0.001	0.008	13.7
285-290	0.002	0.002	0.017	8.0



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ASSAY LAB REPORT

SAMPLES: NORTH BRENDA EXPLORATION

FILE: NBHOLE5.RPT

DATE REPORTED: 02/09/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	0.005	0.001	0.043	1.9
5-10	0.005	0.002	0.063	3.0
10-15	NO SAMPLE			
15-20	0.010	0.002	0.099	3.4
20-25	NO SAMPLE			
25-30	0.010	0.001	0.087	3.3
30-35	0.004	0.001	0.111	2.6
35-40	0.004	0.005	0.084	2.4
40-45	0.009	0.002	0.115	3.1
45-50	0.009	0.005	0.168	2.5
50-55	0.029	0.003	0.071	2.3
55-60	0.010	0.002	0.128	2.3
60-65	0.005	0.003	0.088	3.0
65-70	0.008	0.001	0.157	2.5
70-75	0.001	0.001	0.014	2.1
75-80	0.004	0.001	0.005	2.3
80-85	0.001	0.001	0.018	2.3
85-90	0.003	<.001	0.064	2.4
90-95	0.007	<.001	0.090	2.3
95-100	0.004	<.001	0.046	2.0
100-105	NO SAMPLE			

105-110	0.001	0.001	0.038	2.8
110-115	0.008	<.001	0.076	4.1
115-120	0.011	0.001	0.097	7.0
120-125	0.006	<.001	0.061	10.1
125-130	0.007	0.001	0.143	7.2
130-135	0.003	<.001	0.128	9.8
135-140	0.003	0.001	0.045	9.2
140-145	0.002	<.001	0.085	9.2
145-150	0.006	0.001	0.043	5.1
150-155	0.004	<.001	0.043	9.1
155-160	0.003	<.001	0.095	8.9
160-165	0.003	0.001	0.068	3.3
165-170	0.003	0.001	0.193	8.5
170-175	NO SAMPLE			
175-180	0.008	<.001	0.519	7.0
180-185	0.017	<.001	0.279	8.6
185-190	0.012	0.001	0.164	7.0
190-195	0.001	<.001	0.076	7.4
195-200	0.003	0.001	0.159	7.1
200-205	<.001	0.001	0.062	10.1
205-210	0.004	0.001	0.164	6.3
210-215	0.004	0.001	0.112	9.5
215-220	0.004	<.001	0.068	8.4
220-225	0.004	<.001	0.015	12.9
225-230	0.004	<.001	0.091	8.7
230-235	0.011	0.001	0.126	8.8
235-240	0.010	0.001	0.098	7.3
240-245	0.010	0.001	0.083	9.8
245-250	0.007	0.001	0.078	7.5

250-255	0.001	<.001	0.005	11.3
255-260	0.005	<.001	0.045	9.5
260-265	0.012	<.001	0.044	13.9
265-270	0.000	<.001	0.011	10.8
270-275	<.001	<.001	0.281	10.1
275-280	<.001	0.001	0.011	10.3
280-285	<.001	<.001	0.048	10.0
285-290	0.003	<.001	0.123	2.3
290-295	0.002	0.001	0.088	4.5
295-300	0.002	0.001	0.090	2.4

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SAMPLES | NORTH BRENDA EXPLORATION

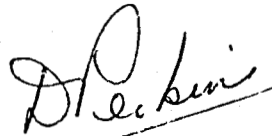
FILE: NBHOLE6.RPT

DATE REPORTED: 08/09/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	0.003	<.001	0.037	4.9
5-10	0.001	<.001	0.029	4.7
10-15	0.001	<.001	0.010	4.4
15-20	0.002	<.001	0.002	4.9
20-25	0.012	<.001	0.018	7.2
25-30	0.002	<.001	0.033	2.0
30-35	0.001	<.001	0.050	2.8
35-40	<.001	<.001	0.006	3.3
40-45	<.001	<.001	0.020	6.2
45-50	<.001	<.001	0.052	5.2
50-55	0.004	0.001	0.091	5.8
55-60	0.001	<.001	0.098	4.8
60-65	0.007	<.001	1.155	11.6
65-70	<.001	0.001	0.051	8.8
70-75	0.001	<.001	0.049	12.8
75-80	0.008	<.001	0.092	8.6
80-85	0.003	<.001	0.083	9.1
85-90	0.006	<.001	0.111	4.7
90-95	0.010	<.001	0.184	9.0
95-100	0.005	<.001	0.110	13.5
100-105	0.004	<.001	0.116	11.4
105-110	0.004	<.001	0.109	7.5

110-115	0.005	<.001	0.076	9.7
115-120	<.001	<.001	0.043	7.9
120-125	0.006	<.001	0.132	12.0
125-130	0.012	<.001	0.240	8.1
130-135	0.009	0.001	0.172	8.4
135-140	0.010	<.001	0.089	6.3
140-145	0.002	<.001	0.085	9.5
145-150	0.003	<.001	0.062	8.5
150-155	0.008	<.001	0.084	7.1
155-160	0.009	<.001	0.200	6.2
160-165	0.004	<.001	0.094	9.7
165-170	0.006	<.001	0.120	7.1
170-175	0.007	<.001	0.215	7.7
175-180	0.005	0.001	0.138	5.0
180-185	0.008	0.001	0.080	9.4
185-190	0.005	<.001	0.073	7.9
190-195	0.001	0.001	0.071	7.5
195-200	0.004	<.001	0.032	6.3
200-205	0.001	0.001	0.070	10.3
205-210	0.004	<.001	0.093	7.1
210-215	0.001	0.001	0.048	8.3
215-220	0.001	<.001	0.085	6.2
220-225	0.004	<.001	0.078	10.1
225-230	0.003	<.001	0.080	7.9
230-235	0.003	<.001	0.045	5.9
235-240	0.001	<.001	0.081	5.0
240-245	0.001	<.001	0.130	9.8
245-250	<.001	<.001	0.007	6.8
250-255	<.001	<.001	0.019	7.6

255-260	<.001	<.001	0.019	7.4
260-265	0.002	<.001	0.068	9.5
265-270	<.001	<.001	0.012	7.4
270-275	0.006	<.001	0.031	8.6
275-280	0.001	<.001	0.088	5.0
280-285	0.001	<.001	0.112	11.3
285-290	0.002	<.001	0.056	9.2
290-295	0.005	<.001	0.100	3.7
295-300	0.001	0.001	0.038	6.8



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ASSAY LAB REPORT

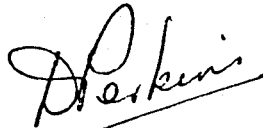
SAMPLES:NORTH BRENDA EXPLORATION

FILE: NBHOLE7.RPT

DATE REPORTED:08/09/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	<.001	0.001	0.011	2.8
5-10	<.001	0.001	0.006	3.2
10-15	0.001	0.001	0.015	3.3
15-20	<.001	0.001	0.003	6.1
20-25	0.001	0.001	0.025	2.7
25-30	0.003	0.001	0.031	3.8
30-35	0.004	0.001	0.054	6.3
35-40	0.001	0.001	0.010	7.0
40-45	0.003	0.001	0.034	9.0
45-50	0.001	0.001	0.027	6.6
50-55	<.001	0.001	0.004	7.6
55-60	<.001	0.001	0.044	6.4
60-65	<.001	<.001	0.005	6.8
65-70	<.001	0.001	0.024	4.9
70-75	<.001	0.001	0.011	5.7
75-80	0.001	0.001	0.026	5.8
80-85	0.003	0.001	0.038	8.0
85-90	0.008	0.001	0.099	5.8
90-95	0.004	0.001	0.043	6.4
95-100	<.001	<.001	0.007	5.1
100-105	<.001	<.001	0.027	8.1

105-110	0.001	<.001	0.049	6.2
110-115	<.001	<.001	0.010	5.8
115-120	<.001	0.001	0.006	7.8
120-125	<.001	0.001	0.007	9.6
125-130	<.001	0.001	0.007	6.3



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ASSAY LAB REPORT


SAMPLES: NORTH BRENDA EXPLORATION

FILE: NBHOLE8.RPT

DATE REPORTED:09/09/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	0.003	<.001	0.019	2.5
5-10	0.004	0.002	0.017	1.5
10-15	0.006	0.002	0.020	2.3
15-20	0.010	0.002	0.030	3.0
20-25	0.002	<.001	0.011	5.7
25-30	<.001	<.001	0.014	2.2
30-35	0.010	0.001	0.015	2.4
35-40	0.010	0.001	0.015	2.2
40-45	0.003	<.001	0.016	3.4
45-50	0.001	<.001	0.006	6.3
50-55	0.001	<.001	0.009	3.3
55-60	0.002	<.001	0.008	4.5
60-65	0.019	<.001	0.028	4.4
65-70	<.001	<.001	0.013	4.1
70-75	0.005	<.001	0.053	3.1
75-80	0.008	<.001	0.015	4.5
80-85	0.004	<.001	0.007	5.2
85-90	0.019	<.001	0.025	10.2
90-95	0.024	<.001	0.029	9.2
95-100	0.012	<.001	0.030	8.9
100-105	0.001	<.001	0.028	7.0
105-110	0.008	<.001	0.017	16.8

110-115	0.001	<.001	0.013	10.4
115-120	0.006	<.001	0.026	8.8
120-125	0.002	<.001	0.021	7.0
125-130	0.003	<.001	0.025	6.5
130-135	0.002	0.001	0.018	6.2
135-140A	0.002	<.001	0.016	7.3
135-140B	0.001	<.001	0.024	8.1
140-145	0.002	<.001	0.021	8.7
145-148	0.001	<.001	0.026	4.9
145-150	0.002	<.001	0.020	5.6



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BRENDA MINES LTD
ASSAY LAB REPORT

SAMPLES: NORTH BRENDA EXPLORATION


FILE: NBHOLE9.RPT

DATE REPORTED: 09/09/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	0.001	<.001	0.017	5.8
5-10	<.001	<.001	0.017	5.0
10-15	<.001	<.001	0.014	4.8
15-20	0.001	<.001	0.020	4.5
20-25	0.003	<.001	0.033	3.3
25-30	0.004	<.001	0.028	4.2
30-35	0.011	<.001	0.035	4.6
35-40	0.005	<.001	0.025	4.7
40-45	0.002	<.001	0.021	7.1
45-50	0.009	<.001	0.034	5.5
50-55	0.014	<.001	0.075	6.9
55-60	0.006	<.001	0.035	10.6
60-65	0.007	<.001	0.030	9.4
65-70	0.001	<.001	0.023	4.7
70-75	0.001	<.001	0.022	7.4
75-80	0.001	<.001	0.109	7.7
80-85	0.001	<.001	0.034	6.0
85-90	0.003	<.001	0.038	9.8
90-95	0.003	<.001	0.018	7.8
95-100	0.006	<.001	0.042	7.1
100-105	0.001	0.008	0.010	6.1
105-110	<.001	<.001	0.008	6.5

115	<.001	<.001	0.010	5.8
120	0.002	<.001	0.014	6.6
125	<.001	<.001	0.001	6.1
130	<.001	<.001	0.004	6.0
135	<.001	<.001	0.006	6.9
140	<.001	<.001	0.014	5.8
145	0.001	<.001	0.033	7.8
150	0.002	<.001	0.030	7.4
155	0.007	<.001	0.034	7.5
160	0.083	0.001	0.078	10.2
165	0.010	<.001	0.027	6.4
170	0.012	<.001	0.086	4.9
175	0.003	<.001	0.012	5.2
180	0.001	<.001	0.014	7.2
185	0.001	<.001	0.009	7.6
190	0.002	<.001	0.010	6.2
195	<.001	<.001	0.003	5.2
200	<.001	<.001	0.005	5.0
205	<.001	<.001	0.040	5.6
210	0.001	<.001	0.007	11.5
215	0.001	<.001	0.017	10.1
220	<.001	<.001	0.004	10.7
225	<.001	<.001	0.005	9.2
230	<.001	<.001	0.005	9.3
235	0.001	<.001	0.012	9.9
240	<.001	<.001	0.015	10.8
245	<.001	<.001	0.009	11.6
250	<.001	<.001	0.004	9.6
255	<.001	<.001	0.002	12.8

255-260	<.001	<.001	0.010	11.7
260-265	<.001	<.001	0.007	11.6
265-270	<.001	<.001	0.002	8.5
270-275	<.001	<.001	0.015	9.4
275-280	<.001	<.001	0.095	10.7
280-285	<.001	<.001	0.002	10.4
285-290	0.002	<.001	0.014	6.5
290-295	<.001	<.001	0.008	8.4
295-300	<.001	<.001	0.025	7.5



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APPENDIX 4

TRAVIS R.C.-87-1

BRENDA MINES LTD
ASSAY LAB REPORT

SAMPLES: CRESENT LAKE-BRENDA EXPLORATION

DATE REPORTED: 10/09/87

FILE: CSHOLE1.RPT

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-5	0.008	0.030	0.009	2.8
5-10	0.008	0.027	0.009	2.2
10-15	0.009	0.027	0.010	1.8
15-25	0.006	0.023	0.007	10.6
20-40	0.001	0.007	0.002	7.5
50-55	0.001	0.006	0.002	4.3
55-60	0.030	0.109	0.004	5.9
60-65	0.031	0.082	0.003	0.3
65-70	0.015	0.045	0.003	1.3
70-75	0.006	0.022	0.002	6.9
75-80	0.004	0.013	0.001	7.6
80-85	0.005	0.015	0.001	7.5
85-90	<.001	0.002	0.025	3.7
90-95	<.001	0.003	<.001	5.3
95-100	0.001	0.003	0.001	4.7
100-105	0.005	0.007	0.001	5.1
105-110	0.007	0.007	0.001	5.0
110-115	0.003	0.005	0.003	10.4
115-120	0.011	0.008	0.001	7.5
120-125	0.015	0.007	0.001	10.0
125-130	0.014	0.009	0.002	5.3
130-135	0.015	0.006	<.001	7.1

R.C.-87-1

135-140	0.008	0.007	<.001	7.3
140-145	0.010	0.004	<.001	5.1
145-150	0.024	0.008	<.001	9.5
150-155	0.012	0.024	<.001	8.5
155-160	0.037	0.008	<.001	13.9
160-165	0.035	0.012	<.001	8.8
165-170	0.010	0.005	<.001	12.0
170-175	0.009	0.004	<.001	12.2
175-180	0.034	0.003	<.001	12.9
180-185	0.062	0.010	<.001	5.2
185-190	0.040	0.005	<.001	10.6
190-195	0.008	0.002	<.001	15.5
195-200	0.023	0.012	<.001	13.8
200-205	0.010	0.009	<.001	17.1
205-210	0.016	0.004	<.001	15.1
210-215	0.005	0.005	0.010	13.1
215-220	0.175	0.021	0.003	12.5
220-225	0.073	0.011	0.001	15.1
225-230	0.029	0.006	<.001	10.4
230-235	0.044	0.004	<.001	14.4
235-240	0.022	0.002	<.001	12.2
240-245	0.012	0.005	0.001	13.3
245-250	0.004	0.009	0.001	7.7
250-255	0.001	0.002	<.001	11.4
255-260	<.001	0.002	<.001	8.6
260-265	<.001	0.002	<.001	11.1
265-270	0.002	0.003	0.001	7.9
270-275	<.001	0.002	0.001	8.0
275-280	<.001	0.002	0.001	7.6

280-285	<.001	0.002	<.001	9.2
285-290	0.001	0.002	0.001	8.4
290-295	<.001	0.002	0.001	9.4
295-300	0.002	0.002	0.001	8.3
300-305	0.003	0.002	<.001	9.4
305-310	0.002	0.004	<.001	6.2
310-315	0.002	0.006	<.001	9.9
315-320	0.027	0.008	0.002	8.7
320-325	0.001	0.003	0.001	11.6
325-330	0.001	0.002	0.001	11.1
330-335	<.001	0.002	0.001	11.2
335-340	<.001	0.003	<.001	13.1
340-345	<.001	0.012	<.001	11.2
345-350	0.004	0.004	<.001	12.5
350-355	0.023	0.003	<.001	11.7
355-360	0.010	0.002	<.001	9.6
360-365	0.005	0.002	<.001	10.0
365-370	0.004	0.002	<.001	10.5
370-375	0.005	0.003	<.001	11.1
375-380	0.005	0.003	<.001	11.4
380-385	0.038	0.007	0.001	10.0
385-390	0.016	0.005	0.001	11.4
390-395	0.026	0.007	0.014	11.1
395-400	0.015	0.005	0.004	10.4
400-405	0.021	0.003	0.001	9.0
405-410	0.044	0.013	0.007	8.4
410-415	0.009	0.003	<.001	11.9
415-420	0.035	0.003	0.005	4.8

420-425	0.010	0.003	0.001	9.0
425-430	0.005	0.003	0.004	11.8
430-435	0.005	0.002	0.001	10.3
435-440	0.017	0.003	<.001	9.1
440-445	0.008	0.007	0.001	10.4
445-450	NO SAMPLE			
450-455	0.004	0.005	0.002	11.1
455-460	0.008	0.006	0.001	6.2
460-465	0.007	0.011	0.002	9.5
465-470	0.034	0.094	0.002	6.0
470-475	0.046	0.003	<.001	9.2
475-480	0.055	0.004	0.001	9.0
480-485	0.045	0.029	0.003	8.9
485-490	0.033	0.022	0.003	9.5
490-495	0.037	0.007	<.001	8.9
495-500	0.038	0.104	0.004	5.0



DEREK PERKINS
CHIEF CHEMIST.

APPENDIX 1
TRAVIS R.C.-87-2
(Note all samples of over-burden)

BRENDA MINES LTD
ASSAY LAB REPORT

SAMPLES: CRESENT LAKE-BRENDA EXPLORATION

FILE: CSHOLE2.RPT

DATE REPORTED: 10/09/87

SAMPLE	%Mo	%Pb	%Cu	Weight(Kg)
0-25	<0.001	0.002	0.002	8.3
25-40	<0.001	0.002	0.002	3.5
45-65	0.001	0.004	0.001	8.9
65-85	0.002	0.006	<0.001	8.5
85-90	0.002	0.009	0.001	3.9
90-95	0.004	0.035	0.001	6.6
95-100	0.002	0.018	0.002	4.6
100-105	<0.001	0.006	0.002	3.2



D. PERKINS
CHIEF CHEMIST

BRENDA MINES LTD
ASSAY LAB REPORT

SAMPLES: BRENDA EXPLORATION 1987 CRESENT LAKE
FILE NAME: CRHOLE3.RPT

DATE REPORTED: 17/9/87

SAMPLE	%Mo	%Pb	%Cu	Weight (Kg)
0-5	0.005	0.016	0.002	3.0
5-10	0.005	0.018	0.002	2.3
10-15	0.003	0.007	<.001	4.8
15-20	0.031	0.003	<.001	2.6
20-25	0.019	0.003	<.001	2.0
25-30	0.005	0.001	<.001	3.1
30-35	0.001	0.001	<.001	1.8
35-40	0.002	0.002	<.001	1.0
40-45	0.004	0.002	0.002	1.2
45-50	0.009	0.002	0.001	1.3
50-55	0.012	0.005	0.003	3.3
55-60	0.006	0.001	0.002	1.5
60-65	0.006	0.003	0.001	3.9
65-70	0.009	0.006	0.003	2.8
70-75	0.004	0.003	0.003	7.1
75-80	0.004	0.003	0.001	5.8
80-85	0.005	0.003	0.002	5.6
85-90	0.002	0.001	0.003	1.0
90-95	0.003	0.001	0.002	3.1
95-100	0.005	0.002	0.002	4.5
100-105	0.004	0.002	0.002	3.5
105-110	0.004	0.003	0.002	2.5

gB
↑

APPENDIX 1
TRAVIS R.C.-87-3

110-115	0.004	0.002	0.001	6.9
115-120	0.001	0.001	0.001	3.4
120-125	0.002	0.001	0.001	4.1
125-130	0.003	0.003	0.002	3.2
130-135	0.002	0.001	0.001	6.1
135-140	0.004	0.002	0.002	2.4
140-145	0.010	0.004	0.003	8.1
145-150	0.011	0.005	0.002	8.4
150-155	0.006	0.003	0.001	4.3
155-160	0.006	0.002	0.001	5.7
160-165	0.011	0.005	0.003	4.9
165-170	0.016	0.004	0.001	8.1
170-175	0.028	0.006	0.001	8.8
175-180	0.061	0.002	<.001	8.2
180-185	0.207	0.006	0.001	8.9
185-190	0.038	0.003	<.001	5.2
190-195	0.016	0.003	<.001	5.9
195-200	0.032	0.001	<.001	5.1
200-205	0.057	0.001	0.001	6.8
205-210	0.024	0.001	0.004	8.1
210-215	0.021	0.003	0.001	6.3
215-220	0.006	0.001	<.001	8.6
220-225	0.010	0.124	0.011	7.1
225-230	0.007	0.009	0.002	8.1
230-235	0.016	0.016	0.004	6.4
235-240	0.004	0.008	0.002	8.5
245-250	0.044	0.004	<.001	7.3
250-255	0.036	0.002	<.001	5.8
255-260	0.077	0.002	<.001	6.7

TRAVIS R.C.-87-3

260-265	0.013	0.002	<.001	6.2
265-270	0.016	0.003	<.001	7.3
270-275	0.014	0.002	<.001	6.7
275-280	0.008	0.003	<.001	7.3
280-285	0.019	0.017	0.010	7.8
285-290	0.024	0.003	0.009	6.9
290-295	0.006	0.001	0.004	6.1
295-300	0.021	0.002	0.005	7.3
300-305	0.015	0.004	0.006	8.2
305-310	0.011	0.014	0.013	5.7
310-315	0.008	0.084	0.010	6.3
315-320	0.003	0.040	0.008	6.9
320-325	0.009	0.012	0.012	8.1
325-330	0.005	0.011	0.008	6.1
330-335	0.013	0.061	0.013	7.8
335-340	0.008	0.044	0.015	4.3
340-345	0.022	0.159	0.018	6.3
345-350	0.018	0.067	0.022	7.1
350-355	0.011	0.112	0.026	7.7
355-360	0.015	0.146	0.028	5.5
360-365	0.020	0.082	0.028	9.1
365-370	0.015	0.111	0.010	4.7
370-375	0.010	0.064	0.008	8.7
375-380	0.018	0.082	0.009	4.7
380-385	0.017	0.291	0.018	1.8
385-390	0.127	0.059	0.008	5.3
390-395	0.022	0.028	0.006	6.4
395-400	0.021	0.061	0.010	6.5

APPENDIX 1
TRAVIS R.C.87-3

400-405	0.119	0.007	0.010	8.8
405-410	0.131	0.004	0.006	4.8
410-415	0.102	0.006	0.005	7.8
415-420	0.043	0.124	0.033	8.0
420-425	0.022	0.100	0.019	4.0
425-430	0.016	0.020	0.007	4.2
430-435	0.025	0.005	0.006	6.0
435-440	0.018	0.030	0.007	7.8
440-445	0.026	0.033	0.007	8.3
445-450	0.015	0.030	0.006	4.9
450-455	0.017	0.008	0.005	7.0
455-460	0.012	0.045	0.010	3.0
460-465	0.016	0.014	0.006	4.2
465-470	0.015	0.018	0.007	4.3
470-477	0.016	0.021	0.007	.8



D PERKINS
CHIEF CHEMIST

APPENDIX 1

TRAVIS R.C.87-1,2,3

BRENDA MINES LTD
ASSAY LAB REPORT

SAMPLES: CRESENT LAKE-BRENDA EXPLORATION

FILE: CS(SN-W).RPT

DATE REPORTED:30/09/87

SAMPLE	ppm Sn	ppm W
HOLE#1		
0-40	<5	<5
50-100	<5	<5
100-150	<5	<5
150-200	<5	<5
200-250	<5	<5
250-300	<5	<5
300-350	<5	<5
350-400	<5	<5
400-445	<5	<5
450-500	<5	<5
HOLE#2		
0-105	<5	<5
HOLE#3		
0-50	<5	<5
50-100	<5	<5
100-150	<5	<5
150-200	<5	5
200-250	<5	7
250-300	<5	<5
300-350	<5	<5
350-400	<5	<5
400-450	<5	6
450-477	<5	<5

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DEREK PERKINS

APPENDIX 5

Harris
EXPLORATION
SERVICES

MINERALOGY AND GEOCHEMISTRY

534 ELLIS STREET, NORTH VANCOUVER, B.C., CANADA V7H 2G6

TELEPHONE (604) 929-5867

Job #87-111

Report for: Noranda Exploration Co. Ltd.,
1050 Davie St.,
Vancouver, B.C.
V6B 3T5

October 1st, 1987

Samples:

10 rock samples and 4 core samples from the Travis Property, submitted by R.U. Bruaset, for sectioning and petrographic examination.

Sample numbers and corresponding slide numbers are as follows:

Sample No.	Slide No.
T RUB 87 104B	87-322X
125C	323X
143	324X
145B	325X
147	326X
200C	327X
204A	328X
205	329X
207	330X
222	331X
DDH C81-8 8m.	332X
84m.	333X
105m.	334X
DDH C81-5 173m.	335X

Summary:

The suite consists entirely of intrusive-type granitoid rocks.

Two main textural types are represented. A fine-grained group, of grain size approximately 0.2 - 2.0mm, includes samples 104B, 125, 222, 81-8 84m and 81-5 173m. A coarser grained group, of grain size 0.5 - 10mm, includes samples 143, 145B, 147, 200C, 204A, 205, 207 and 81-8 105m.

The remaining sample (81-8 8m.) is texturally distinct. It is a true porphyry, with phenocrysts of plagioclase and quartz, up to 2.0mm in size, in a minutely fine-grained groundmass of K-feldspar.

Rock compositions, in both the fine-grained and coarser-grained groups, are in the range quartz monzonite-granite. Classification is based on K-spar/total feldspar percentages of 35 - 65 for quartz monzonite and 65-90 for granite. Quartz contents are in the range 20 - 35%.

The rocks are highly leucocratic, with accessory constituents (principally biotite and possible muscovite) in the modal range 0 - 3%.

Alteration is of similar type and approximate intensity in all the surface samples. Plagioclase is pervasively sericitized to the extent of 5 - 25%. K-feldspar (orthoclase, rarely somewhat perthitic) is essentially unaltered. Accessory biotite is more or less altered to chlorite and/or muscovite; epidote was seen in one slide (204A). Several of the rocks show minor quartz veinlets, and these are relatively abundant in Sample 222. Traces of limonite and jarosite may be derived from alteration of fine-grained sulfides.

Samples 147, 200C and, possibly, 204A show evidence of mild deformation.

The drill core samples are significantly more altered.

Sericitization of plagioclase is strong in 81-8 8m., and almost total in 81-8 84m. and 105m. These rocks also show minor development of carbonate (not seen in the surface samples) and contain traces of sulfides.

81-8 105m. appears to contain substantial introduced quartz. 81-8 8m. and 81-5 173m. have minor quartz and carbonate veinlets, and recognizable traces of molybdenite.

Individual petrographic descriptions of each sample are attached.



J.F. Harris Ph.D.

Sample T RUB 87 104B (Slide 87-322X) FINE-GRAINED LEUCOGRANITE

Estimated mode

K-feldspar	55
Plagioclase	16
Quartz	25
Sericite	3
Jarosite(?)	1
Sphene)	trace
Rutile)	
Limonite	trace
Zircon	trace

This is a rather even, non-porphyritic intergrowth of feldspars and quartz, in the grain size range 0.2 - 1.0mm.

All constituents show anhedral form.

K-feldspar (orthoclase) and, to a lesser degree, quartz show a tendency to segregate as clumps. Quartz grain boundaries tend to be somewhat crenulate, with incipient grain boundary recrystallization.

The feldspars, particularly plagioclase, show sporadic, weak, pervasive sericitization. Rare sericitic microfractures are also observed.

The rock is cut by a 1mm quartz veinlet. This shows similar grain fabric to the rock matrix quartz, and appears less sharply bounded under the microscope than macroscopically.

The rock is notably leucocratic. The only accessories are sparse, tiny interstitial pockets of muscovite (sericite) and scattered, small, irregular flecks of a yellow-brown felted material which may be jarosite. The latter grades to wisps of diffuse ferruginous staining. Traces of intergrown sphene and rutile, and rare, minute granules of zircon are also seen.

Sample T RUB87 125C (Slide 87-323X) FINE-GRAINED QUARTZ MONZONITE

Estimated mode

K-feldspar	34
Plagioclase	37
Quartz	24
Sericite	2
Chloritized biotite	3
Apatite	trace
Opagues	trace

This rock shows a grain size range of 0.1 - 2.0mm.

It is composed essentially of a random intergrowth of quartz and feldspars. The plagioclase shows a tendency to develop prismatic form, the K-spar less so. K-spar, however, forms a few relatively coarser grains, producing a sub-porphyritic texture. This is emphasized by a tendency for quartz to form similar coarser concentrations; these, however, are polygranular anhedral aggregates, not true phenocrysts.

Quartz is the finest grained of the three major constituents, and its habit is basically interstitial.

Plagioclase shows sporadic, weak, sericitic flecking. K-spar (orthoclase) is fresh.

Accessories are sparse. They consist principally of randomly oriented, irregular flakes (0.2 - 1.0mm in size) of chlorite, often showing clear evidence of derivation by alteration of primary biotite.

Fine-grained euhedral apatite and irregular grains of opaques (probably mainly Fe-oxides) are often closely associated with the chlorite.

Estimated mode

K-feldspar	50
Plagioclase	20
Quartz	24
Sericite	4
Chloritized biotite	2
Rutile)	trace
Opagues)	
Limonite	trace
Apatite	trace

This is another extremely leucocratic, intrusive-textured granitoid, composed essentially of feldspars and quartz. It is, however, much coarser grained than the preceding samples.

K-feldspar is markedly coarser than the other constituents, occurring as anhedral grains, 1 - 10 mm in size, giving rise to a distinctly porphyritic texture.

Plagioclase forms subhedral prismatic grains, 0.2 - 2.0mm in size, occasionally poikilitically enclosed within K-spar. Quartz is in the form of interlocking anhedral, microgranular aggregates, of grain size 0.1 - 1.0mm, often concentrating as irregular pockets.

The plagioclase shows moderate pervasive sericitization. The K-spar (cryptoperthite) is fresh.

The only mafics are sparse, shreddy flakes of chloritized biotite, irregular small clumps of rutile and Fe oxides, and relatively abundant tiny euhedra of apatite.

The rock is undeformed and shows no veining.

Estimated mode

K-feldspar	28
Plagioclase	34
Quartz	32
Sericite	3
Altered biotite	3
Rutile	trace
Opaques	trace
Apatite	trace

This is a relatively coarse-grained rock in which plagioclase, the dominant feldspar, forms subhedral prismatic crystals, 0.5 - 3.0mm in size, and K-feldspar forms anhedral grains to 5.0mm or so.

Quartz is notably abundant, occurring as small, interstitial pockets and large segregations consisting of crenulate-margined, incipiently recrystallized aggregates of interlocking grains, 0.05 - 1.0mm in size.

The plagioclase shows weak to moderate sericitization as a rather even, very fine-grained dusting. The K-spar is fresh. A few plagioclase grains show overgrowths or grain boundary replacements of K-spar.

The principal accessory is altered (bleached) biotite, in the form of scattered flakes of sericite/muscovite flecked with rutile and diffuse ferruginous material.

The usual traces of fine-grained rutile, disseminated Fe oxides and apatite are seen.

Sample T RUB87 147 (Slide 87-326X) WEAKLY SHEARED LEUCOGRANITE

Estimated mode

K-feldspar	48
Plagioclase	16
Quartz	32
Sericite	4
Jarosite	trace
Limonite	trace
Opagues	trace

This is a clumpy-textured, quartz-rich leucogranite which exhibits textural evidence of late-stage fracturing and granulation, and introduction (or redistribution) of K-feldspar.

The primary texture is as described for 125C, except that the maximum grain size of K-feldspar is a little lower (5mm). Quartz shows strong segregation as semi-connected, coarse pockets of anhedral, sutured-margined, microgranular aggregate.

The slide includes a zone of shearing or granulation consisting of microgranular, felsitic K-spar and minor plagioclase, of grain size 0.02 - 0.05mm, in oriented, elongate intergrowth with fine-grained quartz.

Microgranular (recrystallized and/or redistributed) K-feldspar also forms rims to grains and clumps of plagioclase and primary K-spar throughout the rock.

The plagioclase shows rather even, moderate, pervasive sericitization, with local concentration of sericite along occasional hairline microfractures. The same microfractures (oblique to the main zone of granulation) show recrystallization and minor redistribution of quartz, and contain occasional small clumps of jarositic material.

The rock is essentially devoid of mafic accessories. Some intergranular wisps of sericite/muscovite may be primary.

Opagues include rare minute specks of sulfides.

Sample T RUB87 200C (Slide 87-327X) MILDLY FRACTURED LEUCOGRANITE

Estimated mode

K-feldspar	47
Plagioclase	15
Quartz	33
Sericite	5
Rutile	trace
Limonite	trace

This rock contains a somewhat lower proportion of plagioclase than most others of the suite and has abundant quartz - a minor proportion of which is of introduced or redistributed character.

The general textural features are as described for the previous few rocks, but plagioclase tends to be more diffuse in outline, and sometimes shows apparent partial assimilation by K-spar. The microgranular aggregate pockets of quartz locally show evidence of patchy or linear recrystallization, or replacement by a later phase of the same mineral - probably the same as that which forms a few vari-directional veinlets. Grain boundary granulation/recrystallization is also rather widespread throughout the K-feldspar.

Plagioclase shows a rather even, moderately strong dusting of fine-grained sericite which is also seen concentrated as a few schlieren or network veinlets.

The rock appears devoid of mafic silicates. Rutile forms occasional clusters of tiny granules, and there are sparsely disseminated, discrete centres of limonite staining which probably represent the alteration of trace sulfides.

Estimated mode

K-feldspar	26
Plagioclase	45
Quartz	24
Sericite	2
Altered biotite	3
Epidote	trace
Apatite	trace
Rutile	trace
Pyrite)	trace
Limonite)	

This is a rock of similar general character and grain size to the other coarser grained members of the suite. It contains a somewhat lower content of quartz, and a distinctly lower ratio of K-spar to plagioclase than the previous few samples. It has the composition of a quartz monzonite close to the compositional boundary with granodiorite.

K-feldspar is the coarsest grained constituent, as anhedral masses, up to 10mm in size, poikilitically enclosing smaller, subhedral-euhedral plagioclase crystals. The latter are 0.5 - 2.0mm in size, but often clump to form seemingly coarser patches. Quartz forms the usual interstitial pockets and irregular polygranular segregations in which the constituent grains are complexly sutured and interlocked. It exhibits notably variable grain size and recrystallized character, with some patches of coarse accretive growth, and shows stronger strain polarization than in previous samples.

Alteration is mild, with plagioclase generally showing a light dusting of very fine-grained sericite but K-spar being unaltered.

This rock has a somewhat higher content of mafic accessories than some others of the suite. These consist of scattered, ragged flakes of biotite, more or less strongly chloritized, bleached and epidotized. The presence of epidote is a distinctive feature.

A few specks of disseminated pyrite are present.

Estimated mode

K-feldspar	37
Plagioclase	21
Quartz	36
Sericite	3
Muscovite	3
Apatite	trace
Rutile	trace
Jarosite	trace

This is a rather quartz-rich variant of the medium to coarse-grained leucocratic granitoid lithotype making up the bulk of the suite. It has the composition of a quartz monzonite close to the compositional boundary with granite.

Textural features are not significantly different from other rocks of the suite. K-feldspar is the coarsest constituent, and tends to enclose individual crystals (0.3 - 3.0mm in size) or crystal clumps of plagioclase. The latter exhibits partial subhedral form, but often shows somewhat diffuse outlines suggestive of peripheral assimilation by K-spar.

Quartz is mainly segregated as rather coarse, irregular pockets of microgranular material. Grain size ranges from 0.1 - 2.0mm, and the fabric is that of an anhedral, complexly interlocking aggregate.

Alteration is of a similar type and general intensity as in the other samples of the suite, consisting of a light pervasive dusting of sericite in the plagioclase. A few irregular veinlets of sericite are also present.

Accessory constituents are ragged flakes, shreds and meshwork clusters of muscovite. This may be primary, or is possibly secondary after original biotite. It commonly contains tiny dusty inclusions of opaques or rutile.

Other constituents are extremely sparse. The jarosite is associated with microfractures or sericite veinlets.

Estimated mode

K-feldspar	58
Plagioclase	20
Quartz	18
Sericite	2
Altered biotite	2
Apatite	trace
Jarosite	trace
Rutile	trace
Opauques)	trace
Limonite)	

This sample has a lower content of quartz and a higher content of K-feldspar than most other rocks of the suite.

The K-feldspar (orthoclase, with rare patches of incipient perthitic texture or flecks of fine-grained quartz) forms anhedral grains up to 10mm in size, which are typically poikilitic, and enclose small, rather well-formed prismatic plagioclase grains. Occasionally plagioclase shows evidence of marginal replacement by the surrounding K-spar.

Quartz, in this sample, is notably less segregated in its mode of occurrence - possibly, in part, a function of its lesser abundance. Whilst it forms a few patches up to 2 or 3mm in size, the majority is as individual anhedral grains, 0.1 - 0.5mm in size, and small clumps and networks of such grains, intergranular to and/or intimately intergrown with feldspars. The somewhat equant, phenocryst-like form of the more segregated quartz patches on the macro-scale is seen to be illusory under the microscope. These are microgranular aggregates as in the other samples.

Plagioclase shows the usual pervasive dusting of sericite, generally rather weak, but occasionally more intense (particularly in some of the partially assimilated grains within K-spar). K-spar is unaltered.

The rock shows rare, irregular veinlets of sericite. A few quartz veinlets are also present, sometimes including segments or selvages of sericitic composition.

Accessories are very sparse. Sporadic, small (0.1 - 0.5mm), ragged flakes of altered (chloritized, bleached) biotite are the only mafics. The usual traces of apatite, rutile and partially limonitized opaques are also seen, plus scattered, tiny flecks of jarosite.

Sample T RUB87 222 (Slide 87-331X) FINE-GRAINED LEUCOGRANITE

Estimated mode

K-feldspar	52
Plagioclase	20
Quartz	24
Sericite	2
Biotite	2
Apatite	trace
Rutile	trace
Opauques	trace

This is a rock of similar type and grain size to 104B.

Overall grain size is principally in the range 0.1 - 1.0mm. K-feldspar occasionally forms somewhat coarser grains to 2.0mm. Plagioclase is typically as subhedral prismatic grains, and quartz is a fine-grained interstitial component, occasionally concentrating as polygranular segregations of interlocking anhedral mosaic. A few cases of small quartz grains as inclusions in K-spar were seen.

It is clear from examination of the stained cut-off block that a significant proportion (25%) of the quartz in this rock is in the form of thin, sub-parallel veinlets. These are texturally indistinguishable from the dominant, pockety/interstitial form of quartz in thin section, and blend imperceptibly with it where they are in contact. Very rarely they show discontinuous selvages of sericite.

Alteration of feldspar is similar to that in the other rocks of the suite i.e. generally weak, but locally rather strong, pervasive sericitization selectively affecting plagioclase.

Mafics in this rock are less altered than in any of the previous samples. They are discrete, small flakes of olive brown biotite with traces of chlorite and dusted with rutile inclusions.

Rare disseminated tiny grains of opaques and/or limonite may be sulfides. These show no consistent relation to the quartz veinlets.

Estimated mode

Phenocrysts	
Plagioclase	9
Quartz	3
K-feldspar	1
Sericite	8
Carbonate	4
Leucoxene	trace
Groundmass	
K-feldspar	60
Plagioclase	2
Quartz	5
Sericite	3
Carbonate	1
Apatite	trace
Rutile	trace
Opagues	trace
Veinlets	
Quartz	4
Carbonate	trace
Sericite	trace
Sulfides	trace

This is a rock of different texture to the rest of the suite. It is clearly a porphyry, composed of phenocrysts of altered plagioclase, plus minor quartz, in a fine-grained potassic groundmass.

The phenocrysts range in size from 0.1 - 2.0mm, and are principally plagioclase, now strongly altered to masses of fine-grained sericite and lesser carbonate. A few quartz phenocrysts are also present, including one of 5mm in size, but mainly very small. These retain original sub-rounded outlines, but are recrystallized to (or replaced by) anhedral aggregate quartz. Rare K-spar phenocrysts, showing only weak alteration are seen, as well as one composed of carbonate and leucoxene - presumably an altered mafic.

The groundmass is a rather even felsitic aggregate of K-feldspar, of grain size 20 - 50 microns. This may contain minor intergrown quartz. Plagioclase in the groundmass is largely in the form of tiny sub-phenocrysts, 0.05 - 0.1mm in size, strongly altered to sericite and carbonate.

Mafic silicates are totally lacking. Opagues and rutile occur as disseminated tiny granules. Apatite is seen as disseminated euhedra and rare coarser, phenocryst-like grains.

The rock is cut by occasional, multi-directional hairline veinlets of quartz, and also by fractures with or without carbonate fillings, and with narrow envelopes of fine-grained sericitization. The thickest quartz veinlet (1.5mm) contains pockets of accessory carbonate, and has minor pyrite and molybdenite as sporadic marginal segregations.

Sample DDH C81-8 84m. (Slide 87-333X) ALTERED FINE-GRAINED LEUCOGRANITE

Estimated mode

K-feldspar	52
Plagioclase	2
Quartz	31
Sericite	15
Carbonate	trace
Rutile	trace
Opagues	trace

This is another of the fine-grained leucogranites which constitute a common rock type within this suite.

It is distinct from others of the group by virtue of its low content of original plagioclase (around 15%) which is now almost totally altered to compact, minutely fine-grained sericite. Local flecks of coarser sericite are also seen in K-spar.

The rock has a general grain size in the range 0.2 - 1.0mm, with occasional anhedral K-spar grains and altered plagioclase phenocrysts in the range of 2 - 3mm. For the most part it is a rather even, anhedral intergrowth of the three major constituents.

The somewhat porphyritic aspect of the stained surface includes clumps of microgranular quartz which sometimes have partial outlines suggestive of possible origin as individual phenocrysts.

Accessory mafics are absent. The main accessory is sericite or fine-grained muscovite, as small clumps and wisps, often showing meshwork or sub-radiate texture.

Traces of disseminated rutile and opaques include fine-grained pyrite. These are partly associated with muscovite clusters and partly random. They show no obvious relation to a 1mm veinlet of quartz which cuts the slide.

Sample DDH C81-8 105m. (Slide 87-334X) ALTERED QUARTZ MONZONITE

Estimated mode

K-feldspar	36
Plagioclase	2
Quartz	42
Sericite	17
Carbonate	2
Apatite	trace
Pyrite) 1
Sphalerite	

This is a rock of the medium to coarse-grained group which appears to have had an original quartz monzonitic composition. Its present composition is modified by almost total alteration of plagioclase to compact, very fine-grained sericite (as in C81-8 84m.) and augmentation of the quartz content, to an uncertain extent, by veniform and pockety segregations of introduced origin.

The original plagioclase apparently included some rather coarse grains, but total alteration, producing irregular patches and networks of compact sericite, has largely obscured the original grain structure. Some indication of peripheral assimilation of plagioclase by K-spar is apparent.

The K-feldspar not uncommonly has zones of fine-grained included quartz, and locally shows apparent granulation. It is partially altered by disseminated flecks of carbonate.

Quartz is of the anhedral interlocking mosaic type, and shows a highly segregated distribution. Sometimes the quartz clumps have included K-spar or sericitized plagioclase remnants, and locally show veinlike apophyses penetrating the adjacent feldspar. A few distinct veinlets of quartz are also present, but are distinguishable with difficulty in thin section.

Minor accessories are small clusters and intergranular wisps of fine-grained muscovite, and the usual scattered traces of euhedral apatite.

Disseminated opaques are more abundant than in most samples, and consist mainly of pyrite, sometimes with associated small clumps of carbonate. Sphalerite is a notable constituent, typically as segments of discontinuous hairline veinlets of sericite and quartz. The sulfides do not appear to show a direct relationship to the main phase of introduced quartz.

Sample DDH C81-5 173m. (Slide 87-335X) FINE-GRAINED QUARTZ MONZONITE

Estimated mode

K-feldspar	43
Plagioclase	22
Quartz	28
Sericite	3
Chlorite	2
Muscovite	trace
Carbonate	2
Apatite	trace
Rutile	trace
Pyrite	} trace
Molybdenite	

This is a rather even-grained, homogenous intergrowth of quartz and feldspars in the grain size range 0.1 - 1.0mm. A few phenocryst-like grains of K-spar, to 3.0mm in size, are also present.

Plagioclase typically forms rather well-formed prismatic grains; these are weakly to moderately dusted with pervasive, very fine-grained sericite.

Quartz is partly strongly segregated, as evenly distributed, discrete, sub-angular clumps, 0.5 - 1.5mm in size, of interlocking mosaic fabric. Smaller clumps and individual grains of quartz also occur in interstitial/intergranular relation to the feldspars, and it seems that this is largely a primary texture.

Accessories, as in all the rocks of this suite, are minor. Here they consist principally of small flakes of chloritized biotite and occasional muscovite.

The rock is cut by hairline veinlets of quartz and/or carbonate.

Traces of pyrite and molybdenite are associated with these veinlets, or form discontinuous, vein-like features in their own right, following incipient micro-fractures.

APPENDIX 6

SUMMARY OF 1981 DIAMOND DRILLING

TABLE 1

TRAVIS (CRESCENT) PROPERTY

Hole C-81-	From (m)	To (m)	Length (m)	Mo%	Pb%	Cu%	Zn%	Ag ppm
1	11	38	27	0.027	0.002	0.004	0.023	0.5
	38	60	22	0.036	0.009	0.002	0.065	0.5
	60	80	20	0.023	0.007	0.016	0.027	0.7
	80	110	30	0.027	0.026	0.004	0.056	0.5
Weighted Average:			99	0.028	0.012	0.006	0.043	0.6
2	Hole not sampled. Visual estimate for Mo 0.02 to 0.03% Mo.							
3	Hole lost in overburden at 37.9m.							
4	10	22	12	0.025	0.013	0.003	0.032	0.7
	22	42	20	0.019	0.026	0.004	0.08	0.9
	42	56	14	0.013	0.040	0.006	0.08	1.7
	56	78	22	0.012	0.009	0.016	0.03	2.1
	78	98	20	0.016	0.02	0.006	0.03	1.2
	98	118	20	0.012	0.015	0.005	0.10	1.1
	118	126	8	0.016	0.062	0.005	0.078	1.0
Weighted Average:			116	0.016	0.023	0.007	0.06	1.2
5	3	60	57	0.0046	0.015	0.004	0.015	0.6
	60	175	115	0.024	0.061	0.007	0.11	1.5
			172	0.018	0.046	0.006	0.079	1.2
6	No data available.							

SUMMARY OF 1981 DIAMOND DRILLING

TABLE 1 Con't

TRAVIS (CRESCENT) PROPERTY

P. 2 of 2

Hole C-81-	From (m)	To (m)	Length (m)	Mo%	Pb%	Cu%	Zn%	Ag ppm	
7	4	54.5	50.5	0.005	0.003	0.002	0.009	0.6	
	54.5	92	Incomplete data: only one analysis (60-61m)						
	92	125	33	0.011	0.02	0.008	0.033	0.9	
8	3	58	55	0.029	0.13	0.015	0.30	2.8	
	58	124	66	0.027	0.061	0.009	0.21	1.5	
	Weighted average:			121	0.028	0.09	0.012	0.25	2.1
9	3.4	76	72.6	0.031	0.13	0.02	0.211	1.8	
	76	106	30	0.028	0.068	0.005	0.135	1.1	
	Weighted average:			102.6	0.030	0.11	0.016	0.189	1.6
10	15.05	34	18.95	0.013	0.012	0.006	0.045	0.5	
	34	54	20	0.016	0.003	0.064	0.023	0.6	
	54	74	20	0.023	0.011	0.003	0.039	0.6	
	74	94.5	20.5	0.042	0.014	0.003	0.023	0.7	
	Weighted average:			79.45	0.024	0.01	0.019	0.033	0.6