Hole CPZ-01
Sheet 1 of 4

2.18356

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

Job 16540 N.T.S. 31 D/09W, 16W
Property Cavendish Zinc
Township Cavendish
Location: Line L5E
Station 460N
Claim No. 1212830
Logged Kerrie Fitzhenry

Objective To test IP anomaly

Drilling Co. Bradley Bros. Limited
Commenced November 18, 1997
Completed November 18, 1997
Length 101.0 m

Core Location North Bay

Distance to Water
Casing Lost
Core Size BQ

Tests	Dip	Azimuth
At Collar	50°	323°
50m	50°	
101m	50°	

DRILL HOLE SUMMARY

0.0	4.0	Overburden
4.0	7.0	1aB
7.0	7.5	2a
7.5	7.9	1aB
7.9	9.2	2a
9.2	25.6	1aB
25.6	26.7	2a
26.7	61.1	1aB
61.1	62.1	1c
62.1	68.3	1aB
68.3	69.9	2a
69.9	81.3	1aB
81.3	91.7	1a
91.7	100.9	1aB
100.9	101.0	Ultramafic (4d)
	101.0	End of Hole

Kerrie Fitzhenry

Whole Rock - 6
Assays - 5

* Denotes Whole Rock

DDL-0674 5-Mar-98

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
0.0	4.0	OVERBURDEN						
4.0	7.0	1aB	Coarse-grained, white-grey calcitic marble, with dark grey bands up to 1 cm in thickness, bands comprised of dark grey calcite + metallic graphite. 4.6 - Banding at 75° to core axis.					
7.0	7.5	2a	Fine to medium-grained biotite-rich clastic metasediment, upper contact at 75° to core axis, thin discontinuous pyrrhotite veinlet parallel to core axis, 0.5 cm concentration of medium-grained biotite at contacts.					
7.5	7.9	1aB	Coarse-grained grey-white banded calcitic marble.					
7.9	9.2	2a	Fine to medium-grained biotite-rich clastic metasediment with minor finely disseminated fine-grained pyrrhotite. 8.45-8.6 - Coarse-grained, banded marble.					
9.2	25.6	1aB	Coarse-grained grey-white calcitic marble, up to 2 cm dark grey bands of graphite + grey calcite, minor pale yellow-orange chondrodite crystals throughout. 11.05-11.15 - Fine to medium-grained biotite-rich silicic metasediment. 11.3 - Banding at 75° to core axis. 12.0 - Thin seams of coarse-grained biotite + phlogopite. 12.2 - As above. 17.2 - 5 cm black zone of biotite-rich siliciclastics. 18.5 - Banding at 85° to core axis. 24.25-24.6 - Fine-grained biotite-rich siliciclastic unit with minor fine-grained disseminated pyrite at 24.3 m; 24.4-24.6 up to 15% brown vesuvianite throughout, interstitial to biotite.	L4622* L4623	14.0 24.25	15.0 24.6	1.0 0.35	11 33
25.6	26.7	2a	Fine-grained, black, biotite-rich clastic metasediment, minor calcite veinlets with minor pyrrhotite at 80° to core axis, lower contact approximately perpendicular to core axis.					
26.7	61.1	1aB	Coarse-grained, white-grey, banded calcitic marble, minor graphite concentrated in bands. 29.7 - Banding at 80° to core axis. 31.3 - 7 cm siliceous zone with biotite at contacts.					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			32.2 - 3 cm biotite-rich band. 32.5 - 8 cm biotite-rich zone. 33.9 - 3 cm biotite-rich zone, biotite books up to 1 cm diameter. 37.3 - 10 cm white coarse-grained calcite vein. 38.4 - Thin phlogopite seams at 80° to core axis. 40.0-40.2 - Fine-grained biotite-rich clastic metasediment. 41.7 - Thin phlogopite seam. 42.7-43.1 - Fine-grained biotite-rich clastic metasediment, biotite concentrated at both contacts, lower contact at 65° to core axis. 44.1 - Banding at 75° to core axis. 45.2 - 8 cm black zone of fine-grained biotite-rich siliciclastics. 48.5 - 15 cm black zone of fine-grained biotite-rich siliciclastics with minor pyrrhotite at lower contact, upper contact at 70° to core axis. 49.9 - Banding at 75° to core axis. 52.7 - 5 cm biotite-rich clastic sediments. 53.1 - As above. 55.7 - Banding changes to 50° to core axis. 58.4 - Banding at 85° to core axis.	L4624*	43.7	44.7	1.0	10
61.1	62.1	1c	Siliceous marble, dark grey, fine to medium-grained, highly siliceous but does react with hydrochloric acid, foliated, abundant fine-grained graphite and pyrite disseminated throughout. Upper contact defined by 3 cm zone of medium to coarse-grained biotite + phlogopite.	L4625*	61.1	62.1	1.0	30
62.1	68.3	1aB	Coarse-grained white-grey banded calcitic marble, grey bands average 0.4 cm but reach 1.5 cm in width, composed of grey calcite + graphite. 63.0 - Bands at 75° to core axis. 63.3 - Irregular zone of coarse-grained biotite with minor pyrrhotite.	L4626*	65.5	66.5	1.0	13
68.3	69.9	2a	Fine-grained, black, biotite-rich clastic metasediment, minor fine-grained pyrrhotite finely disseminated throughout. 69.2 - Small patch of serpentine/fuchsite with blebby pyrrhotite, upper contact at 65° to core axis.					
69.9	81.3	1aB	Coarse-grained, white-grey banded calcitic marble, minor pale yellow-orange chondrodite disseminated throughout. 70.1 - Banding at 65° to core axis.					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			73.9 - Very coarse-grained calcite and books of biotite. 75.1 - Banding at 70° to core axis. 78.35-78.5 - Dark grey zone of fine-grained clastic metasediment with minor disseminated blebs of pyrrhotite. 78.6-78.7 - Black, fine-grained biotite-rich siliciclastics.	L4627*	80.0	80.9	0.9	16
81.3	91.7	1a	Very fine to fine-grained, dark grey, thinly bedded calcitic marble, upper contact at 55° to core axis.	L4628	82.7	83.0	0.3	9
			83.8 - Bedding at 60° to core axis.	L4629	83.0	85.1	2.1	7
			83.8 - 3 cm coarse-grained calcite vein with brown, coarse-grained vesuvianite and 1% blebby disseminated pyrrhotite, vein at 50° to core axis. 83.2 - Bedding at 70° to core axis. 83.6 - Bedding extremely convoluted. 84.5 - Bedding at 60° to core axis. 85.0 - Bedding extremely convoluted.					
			85.4 - Weak to moderate pervasive sericitic alteration with 2-3% brown vesuvianite at 85.5-85.7 m.	L4630	85.4	85.8	0.4	6
				L4631	85.8	86.8	1.0	6
			86.4 - Rounded 1 cm x 0.5 cm oval bleb of light brown vesuvianite. 88.7 - Bedding at 70° to core axis. 90.5 - 2 round blebs of pale brown-yellow material (epidote?)					
91.7	100.9	1aB	Coarse-grained white-grey banded calcitic marble, upper contact at 70° to core axis, bedding at 65° to core axis, minor graphite and fine to medium-grained chondrodite crystals throughout.	L4632*	98.0	99.0	1.0	7
			93.5-93.9 - Massive grey quartz vein at 30° to core axis, biotite-rich clastic metasediments at lower contact (down to 94.5 m). 96.0 - 4 cm seam of biotite-rich material. 96.7 - Minor local concentration of disseminated pyrrhotite. 96.9 - 5 cm zone of green-brown serpentine with phlogopite. 97.2 - K-feldspar veinlet at 20° to core axis.					
100.9	101.0	ULTRAMAFIC	Dark green-black ultramafic rock, subround clots of serpentine (after olivine) within a mix of biotite/actinolite (presumably after pyroxene); moderately conductive, upper contact with marbles at 55° to core axis, minor hematite staining at contact.					
	101.0	END OF HOLE						

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

Job 16540 N.T.S. 31 D/09W, 16W
Property Cavendish Zinc
Township Cavendish
Location: Line 6E
Station 175N
Claim No. 1212830
Logged Kerrie Fitzhenry

Objective To test IP anomaly

Drilling Co. Bradley Bros. Limited
Commenced November 19, 1997
Completed November 19, 1997
Length 98.0 m

Core Location North Bay

Distance to Water
Casing Lost

Core Size BQ

Tests	Dip	Azimuth
At Collar	50°	323°
50m	51°	
98m	50°	

DRILL HOLE SUMMARY

0.0	4.0	Overburden
4.0	5.0	1a
5.0	5.7	2a
5.7	39.1	1a
39.1	40.6	2a
40.6	51.4	1a
51.4	56.3	1aB
56.3	57.2	2a
57.2	57.9	1aB
57.9	58.3	2a
58.3	59.6	1aB
59.6	62.4	2a
62.4	98.0	1aB

Whole Rock - 8
Assays - 37

* Denotes Whole Rock

Kerrie Fitzhenry

DDL-0672 5-Mar-98

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
0.0	4.0	OVERBURDEN						
4.0	5.0	1a	Massive, very weakly banded marble, white in colour with minor graphite seams, trace pyrite disseminated throughout, weak band at 65° to core axis. 4.4 - Small bleb of vesuvianite <1 cm diameter.					
5.0	5.7	2a	Siliciclastic unit with abundant biotite, dark grey-black in colour, moderate chlorite throughout, minor (up to 1%) disseminated sulphide throughout.					
5.7	39.1	1a	Massive, locally banded, calcite marble.					
			5.85 - Minor disseminated blebs of vesuvianite with minor pyrrhotite.	L4501	5.8	6.4	0.6	9
			6.2 - 2.5 cm bleb of light brown vesuvianite with 0.5% fine-grained disseminated sulphide.	L4502	6.4	6.7	0.3	5
				L4503	6.7	7.6	0.9	5
			6.8 - 3 cm diameter bleb of light brown vesuvianite with minor fine to medium-grained pyrrhotite.					
			7.4 - Minor (<1%) medium-grained vesuvianite grains disseminated throughout.	L4504	7.6	8.1	0.5	6
			7.75 - 1-2 cm vesuvianite bleb, rusty fractures at 45° to core axis.	L4505*	8.1	9.0	0.9	5
			9.5 - 2 cm diameter vesuvianite crystal.	L4506	9.0	10.2	1.2	7
			10.2-10.5 - Dark grey section mottled with 10% fine-grained brown vesuvianite and fine-grained finely disseminated sulphide (3-4%), upper contacts at ~55° to core axis, thin seam of black graphite along both contacts.	L4507	10.2	10.6	0.4	11
				L4508	10.6	12.0	1.4	8
			12.05 - Discontinuous band of light brown vesuvianite with 2-3% fine to medium-grained disseminated sulphide.	L4509	12.0	12.7	0.7	7
				L4510*	12.7	13.5	0.8	6
			12.2-12.5 - Sulphide content increases to 5%, becoming more blebby, blebs up to 1.5 cm diameter, also vesuvianite content increases to 7-8%, at 12.4 m both sulphide + vesuvianite fine-grained, lower contact of zone at 60° to core axis.					
			12.9 - Weak banding at 55° to core axis.					
			13.53-13.8 - Zone of vesuvianite + sulphide; vesuvianite content up to 25%, 3-4% fine-grained disseminated pyrrhotite, at lower end of zone vesuvianite content decreases to 2-3%, lower contact at 65° to core axis.	L4511	13.5	13.9	0.4	6
				L4512	13.9	14.3	0.4	6
			14.3-14.6 - Contorted zone of biotite + graphite.	L4513	14.6	15.5	0.9	6
			15.5 - 1.5 cm diameter oval "bleb" of light brown vesuvianite?	L4514	15.5	16.5	1.0	6
			16.2 - 2 cm discontinuous band of yellow vesuvianite?	L4515	16.5	17.4	0.9	6

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			17.2-17.5 - 0.5% medium-grained vesuvianite crystals/blebs disseminated throughout.	L4516	17.4	18.0	0.6	8
			17.5 - 6 cm zone with ~5% fine-grained light brown vesuvianite.					
			17.8-17.95 - Dark grey-black zone with up to 3% dark brown vesuvianite, and 3-4% fine-grained disseminated sulphide + 4-5% graphite.					
			18.5 - 1 cm discontinuous band of honey coloured vesuvianite.	L4517	18.0	19.0	1.0	6
			19.1-19.3 - Series of 1 cm thick vesuvianite + sulphide veins/bands; at 19.3 band is 4 cm thick.	L4518	19.0	19.9	0.9	6
			19.5 - Irregular bleb of medium brown vesuvianite 2 cm diameter.					
			19.9-20.25 - Zone of coarse-grained calcite with medium-coarse-grained brown euhedral spahlerite crystals up to 15%, up to 7% pyrrhotite, semi-massive blebs, 2-3% graphite disseminated throughout.	L4519	19.9	20.3	0.4	11
			20.7 - Discontinuous vesuvianite + minor sulphide band.	L4520	20.2	21.3	1.1	6
			21.3 - Moderate band with yellow vesuvianite at 45° to core axis.	L4521*	21.3	22.5	1.2	30
			22.1 - Moderate band with yellow vesuvianite at 70° to core axis.	L4522	22.5	23.1	0.6	6
			22.7-23.1 - Zone of coarse-grained calcite with 5-7% coarse-grained vesuvianite and minor sulphide, toward end of zone vesuvianite becomes fine-grained and finely disseminated, coarse-grained vesuvianite, sulphide + graphite at lower contact at 50° to core axis.	L4523	23.1	24.1	1.0	6
			23.5 - Coarse-grained calcite with minor vesuvianite + green fuchsite.					
			24.3 - Localized patch of coarse-grained brown vesuvianite with minor sulphide + graphite.	L4524	24.1	24.6	0.5	6
				L4525	24.6	25.6	1.0	7
			25.7 - 3 cm zone of very coarse-grained vesuvianite crystals within coarse-grained calcite, trace to nil sulphide, minor sericite/white mica.	L4526	25.6	26.1	0.5	6
				L4527	26.1	27.3	1.2	7
			27.3 - 4 cm coarse-grained calcite vein/zone with 1-2% yellow fine to medium-grained vesuvianite and 2-3% fine to medium-grained pyrrhotite.	L4528	27.3	28.1	0.8	7
			27.8 - 3 cm discontinuous light brown vesuvianite band with minor sulphide + graphite?					
			27.9-28.2 - Dark zone of fine-grained brown vesuvianite (up to 15-20%) 2-3% fine-grained finely disseminated sulphide, upper contact at 35° to core axis, very coarse-grained calcite at lower contact.					
			28.6 - 3 cm "knot" of brown vesuvianite.	L4529	28.1	28.9	0.8	8
			28.9 - Banding at 70° to core axis.	L4530	28.9	30.3	1.4	11
			29.7 - Biotite seams at 70° to core axis.					
			29.9 - Moderate foliation at 60° to core axis.					
			30.55 - Irregular zone with minor vesuvianite and 3-4% fine to medium-	L4531	30.3	31.3	1.0	9

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			grained disseminated sulphide.					
			31.5 - Irregular band of yellow-brown vesuvianite with minor sulphide + minor graphite.	L4532	31.3	32.0	0.7	14
			31.8 - 6 cm zone of siliciclastics with abundant biotite.					
			32.4 - 3 cm zone with up to 5% brown vesuvianite + minor sulphide + graphite.	L4533	32.0	32.7	0.7	15
			32.5 - Minor light brown vesuvianite forming discontinuous band.	L4534	32.7	34.0	1.3	8
			33.3 - Minor coarse-grained vesuvianite crystals.					
			34.0-35.0 - Minor (<1%) medium to coarse-grained brown vesuvianite crystals disseminated throughout.	L4535	34.0	35.2	1.2	8
			35.1 - 5 cm localized concentration of vesuvianite (5-6%) with minor fuchsite.	L4536	35.2	36.5	1.3	15
			36.9 - Banding at 70° to core axis.					
			37.6 - 4 cm diameter rounded "fragment" with minor vesuvianite at edges.					
			38.2 - Moderate (3-4%) brown phlogopite parallel to foliation.					
39.1	40.6	2a	Dark grey-black siliciclastic unit with abundant biotite, thin beds of marble interbedded throughout; minor discontinuous pyrrhotite veinlets at 75° to core axis.					
			39.6-39.8 - Grey marble unit with minor coarse-grained biotite and minor pyrrhotite.					
			Upper contact at 60° to core axis.					
40.6	51.4	1a	Massive - locally banded grey-white marble (calcitic), at 41.1 m banding at 85° to core axis.	L4537	40.6	41.1	0.5	7
			41.1 - 3 cm coarse-grained calcite vein with 2-3% pyrrhotite.	L4538	41.1	41.7	0.6	9
			41.4 - 3+ cm vein of yellow material? with pyrrhotite at vein edges; vein at 15° to core axis.	L4539*	41.7	42.7	1.0	10
			43.4 - Banding at 80° to core axis.					
			46.4 - Irregular patch with possible vesuvianite at edges.					
			46.5-46.8 - Light grey siliceous unit at 50° to core axis.	L4540	47.0	48.0	1.0	10
			48.05-48.25 - Dark grey-black siliciclastic unit with abundant biotite - large disseminated blebs of pyrrhotite, 3-5% red-brown mineral (hematite/vesuvianite).	L4541	48.0	48.3	0.3	13
				L4542	48.3	49.3	1.0	10
			49.2 - Abundant thin black graphite veinlets at 30° to core axis.					
			50.6 - Bedding at 85° to core axis.					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
51.4	56.3	1aB	Coarser grained white dominantly banded marble (calcitic). 51.5 - Thin seam of coarse-grained biotite. 53.0 - Thin biotite + graphite + pyrite seam approximately perpendicular to core axis. 53.6 - Thin (0.5 cm) of phlogopite, vesuvianite, biotite + minor sulphide perpendicular to core axis. 54.7 - Banding at 80° to core axis.	L4543*	54.5	55.5	1.0	12
56.3	57.2	2a	Black, biotite-bearing siliciclastic unit, minor sulphide (2-3%) fine-grained pyrite + pyrrhotite disseminated throughout, upper contact at 80° to core axis. 56.7-57.0 - Coarse-grained white calcite marble with coarse-grained biotite throughout; minor pyrrhotite at contacts.					
57.2	57.9	1aB	Coarse-grained, white calcitic marble with black (graphitic) bands at 75° to core axis. 57.8 - 10 cm zone with red-brown hematite forming veins/bands perpendicular to core axis, thin graphite veinlet at 40° to core axis.					
57.9	58.3	2a	Black, biotite-rich siliciclastic unit with minor fine-grained pyrite + pyrrhotite disseminated throughout. 58.05 - Thin pyrite veinlet at 60° to core axis, upper contact at 70° to core axis.					
58.3	59.6	1aB	Coarse-grained white-grey marble, weak banding, minor silver graphite disseminated throughout.					
59.6	62.4	2a	Fine-grained black, biotite-rich siliciclastic unit with minor fine-grained sulphides disseminated throughout. 60.8-61.2 - Coarse-grained white calcitic marble (lower contact at 30° to core axis.)					
62.4	98.0	1aB	Coarse-grained, white-grey calcitic marble, moderately to well banded. Upper contact at 65° to core axis, minor medium-grained phlogopite crystals parallel to banding. 64.0 - Banding perpendicular to core axis. 66.5 - Local concentration of phlogopite crystals. 69.5 - Coarse-grained calcite vein with biotite at edges at 10° to core					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			axis.					
			71.1 - Banding at 80° to core axis.	L4544*	71.0	72.0	1.0	14
			75.5 - Hematite + calcite veinlet at 30° to core axis.					
			76.9 - Hematite + calcite veinlet at 30° to core axis.					
			78.5 - 10 cm zone of fine-grained black, biotite-rich siliciclastics with minor pyrite and pyrrhotite disseminated throughout.					
			78.9-79.1 - Fine-grained black, biotite-rich siliciclastic unit, lower contact at 75° to core axis.					
			81.3 - Banding at 80° to core axis.					
			84.1 - Local concentration of medium-grained biotite.					
			86.6-87.0 - Fine-grained black, biotite-rich siliciclastic unit, upper contact at 75° to core axis.	L4545*	87.5	88.5	1.0	10
			88.8 - Thin hematite veinlet at 45° to core axis.					
			92.7 - Banding at 75° to core axis.					
			97.8 - Banding at 75° to core axis.					
	98.0	END OF HOLE						

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

Job 16540 N.T.S. 31 D/09W, 16W
Property Cavendish Zinc
Township Cavendish
Location: Line L4E
Station 225S
Claim No. 1212830
Logged Kerrie Fitzhenry

Objective To test IP anomaly

Drilling Co. Bradley Bros. Limited
Commenced November 20, 1997
Completed November 20, 1997
Length 101.0 m

Core Location North Bay

Distance to Water 100 m
Casing Lost
Core Size BQ

Tests	Dip	Azimuth
At Collar	50°	323°
50m	50°	
101m	49°	

DRILL HOLE SUMMARY

0.0	4.0	Overburden
4.0	7.1	2b
7.1	24.5	1a
24.5	26.0	2b
26.0	27.3	1a
27.3	39.9	2b
39.9	47.8	1a
47.8	50.3	2a
50.3	63.7	1a
63.7	68.3	1aB
68.3	76.0	1a
76.0	76.9	Gabbro dyke
76.9	80.2	1a
80.2	88.5	Gabbro dyke
88.5	89.6	1b
89.6	101.0	1a
	101.0	End of Hole

Whole Rock - 5
Assays - 5

* Denotes Whole Rock

Kerrie Fitzhenry

DDL-0678 5-Mar-98

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
0.0	4.0	OVERBURDEN						
4.0	7.1	2b	Interbedded medium-grained grey calcitic marble and black, biotite-rich clastic metasediments, carbonate units 7-20 cm, siliciclastic units 2-10 cm in thickness, bedding at 70° to core axis.					
7.1	24.5	1a	Massive to weakly banded calcitic marble, light to medium grey in colour, minor graphite disseminated throughout. 8.7 - 2 cm biotite-rich band at 85° to core axis. 9.2 - 5 cm biotite-rich unit. 11.8 - 5 cm biotite-quartz-chlorite zone. 12.9 - 3 cm discontinuous patch of pale brown vesuvianite with minor medium-grained pyrrhotite. 12.95 - Up to 2% medium-grained disseminated pyrrhotite. 13.6 - Local concentration of coarse-grained biotite with blebby pyrrhotite. 14.1 - Irregular patch (1 cm x 2 cm) of pale brown vesuvianite. 18.9 - Irregular angular fragment of siliciclastics. 19.6 - Banding at 75° to core axis. 20.5 - Two 0.5 cm biotite seams at 75° to core axis. 20.8-21.1 - Biotite-rich zone with up to 5% blebby pyrrhotite. 23.4 - Minor brown vesuvianite associated with phlogopite seam. 23.7 - Minor vesuvianite associated with coarse-grained calcite vein.	L4671* L4672 L4673	12.5 20.8 23.0	13.5 21.1 24.0	1.0 0.3 1.0	14 15 39
24.5	26.0	2b	Interbedded biotite-rich siliciclastics with calcitic marble, beds range in thickness from 1 cm - 20 cm.					
26.0	27.3	1a	Massive to weakly banded, white-grey calcitic marble, minor graphite disseminated throughout, minor thin seams of biotite and/or phlogopite.					
27.3	39.9	2b	Interbedded biotite-rich siliciclastics with calcitic marbles, beds range in thickness from 0.5 cm to >1 m. 29.5 - Beds at 70° to core axis. 32.0 - Carbonaceous units take on a yellow-green hue (sericitic alteration). 33.4 - Beds at 70° to core axis. 38.2 - Pale yellow irregular patch (possibly vesuvianite?). 38.7 - Minor (~1%) disseminated pyrrhotite. 39.2 - Bedding at 70° to core axis.	 L4674	 38.1	 38.4	 0.3	 16

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
39.9	47.8	1a	Massive to moderately bedded grey calcitic marbles, thin biotite/phlogopite seam throughout, parallel to banding. 41.8 - Band at 70° to core axis. 43.3-43.8 - Fine-grained black, biotite-rich clastic metasedimentary unit, minor blebby pyrrhotite associated with calcite vein at 43.5 m, upper contact at 65° to core axis. 45.6 - Banding at 70° to core axis. 46.8 - 20 cm of fine-grained black, biotite-rich siliciclastics.	L4675*	46.0	47.0	1.0	10
47.8	50.3	2a	Fine-grained, black, biotite-rich clastic metasediments, upper contact with marbles at 65° to core axis. 48.5 - Coarse-grained calcite vein with blebby pyrrhotite. 48.7 - As above. 49.5 - As above.	L4676	48.7	49.6	0.9	<1
50.3	63.7	1a	Massive to weakly banded, grey-white calcitic marble with minor fine-grained graphite disseminated throughout. 51.3 - 12 cm biotite-rich 2a. 52.2 - Minor euhedral disseminated vesuvianite and pyrrhotite, minor disseminated diopside. 52.8 - Banding at 70° to core axis. 54.15-54.8 - Biotite-rich 2a, lower contact at 60° to core axis. 56.0 - 7 cm biotite-rich 2a. 58.0 - 4 cm zone with abundant medium to coarse-grained phlogopite. 58.8-58.95 - Biotite-rich 2a with coarse-grained calcite at upper contact. 59.7 - Banding at 65° to core axis. 63.4-63.8 - Biotite-rich 2a. 65.35-65.5 - As above.					
63.7	68.3	1aB	Coarse-grained white-grey, banded calcite marble, banding defined by darker grey calcite, banding at 60° to core axis. 66.5 - 10 cm biotite/phlogopite-rich zone. 66.9 - Minor vesuvianite + disseminated sulphide. 67.8-68.1 - Biotite-rich 2a.	L4677*	65.8	67.3	1.5	26
68.3	76.0	1a	Massive to weakly banded grey calcitic marble with minor graphite disseminated throughout.	L4678*	71.5	72.5	1.0	688

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
76.0	76.9	GABBRO DYKE	Fine-grained, dark green massive mafic dyke. Minor calcite veinlets with minor blebby pyrrhotite at 30° to core axis. Lower contact at 80° to core axis.					
76.9	80.2	1a	Massive to weakly banded grey-white calcite marble. 78.2 - 3-5% disseminated medium-grained phlogopite crystals. 78.4 - Minor pale yellow-orange banding at 75° to core axis.	L4679	77.3	77.9	0.6	455
80.2	88.5	GABBRO DYKE	Fine-grained black mafic dyke, moderately saussuritized plagioclase within black chloritic groundmass, upper contact at 70° to core axis. 81.5-81.8 - 30 cm coarse-grained calcite vein at 30° to core axis. Minor fracture-controlled pyrite.					
88.5	89.6	1b	Massive, medium-grained pale yellow dolomitic marble, 3-4% graphite disseminated throughout; acid only reacts with rock powder; locally appear light brown in colour (possible vesuvianite).	L4680*	88.9	89.6	0.7	44
89.6	101.0	1a	Massive grey-white calcitic marble, minor graphite disseminated throughout. 90.4 - Phlogopite seam at 60° to core axis. 91.9 - Weak banding at 60° to core axis. 92.1-93.6 - Biotite-rich 2a. 95.1 - 2-3% fine-grained pyrrhotite disseminated throughout. 95.3 - Local concentration of phlogopite. 99.2 - As above.					
	101.0	END OF HOLE						

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

Job 16540 N.T.S. 31 D/09W, 16W
Property Cavendish Zinc
Township Cavendish
Location: Line L8E
Station 100S
Claim No. 1191290
Logged Kerrie Fitzhenry

Objective To test IP anomaly

Drilling Co. Bradley Bros. Limited
Commenced November 21, 1997
Completed November 21, 1997
Length 101.0 m

Core Location North Bay

Distance to Water 100 m
Casing Lost

Core Size BQ

Tests	Dip	Azimuth
At Collar	50°	323°
50m	48°	
101m	48°	

DRILL HOLE SUMMARY

0.0	4.0	Overburden
4.0	56.4	1a
56.4	58.35	Gabbro dyke
58.35	98.5	1a
98.5	99.9	2a
99.9	101.0	1a
	101.0	End of Hole

Whole Rock - 4
Assays - 34

* Denotes Whole Rock

Kerrie Fitzhenry

DDL-0679 5-Mar-98

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
0.0	4.0	OVERBURDEN						
4.0	56.4	1a	Massive, grey-white, coarse-grained, calcitic marble; minor graphite disseminated throughout.					
			4.8-5.0 - 20 cm zone of massive coarse-grained white calcite with minor coarse-grained biotite.					
			5.0-5.2 - 20 cm zone of medium-grained, black, biotite-rich siliciclastics.					
			14.3-14.5 - Fine to medium-grained biotite-rich black clastic metasediment with minor fine-grained pyrrhotite disseminated throughout, lower contact at 70° to core axis.					
			15.3-16.0 - Very coarse-grained calcite vein with minor graphite and minor k-feldspar at 15.8 m, lower contact at 40° to core axis.					
			16.1 - 2 cm seam of medium-grained biotite with minor k-feldspar at edges.					
			17.3 - 1 cm thick discontinuous vesuvianite band.					
			18.2 - Two 1 cm thick graphite veins at 60° to core axis marks contact of 20 cm siliclastic unit.					
			20.7 - 4 cm zone of medium-grained biotite with minor disseminated pyrrhotite and vesuvianite.	L4633*	20.0	21.0	1.0	13
				L4634	21.0	22.6	1.6	7
			22.6-23.3 - Zone of siliceous marble, pale green in colour, specked with black biotite and white calcite crystals, minor (<1%) disseminated pyrrhotite throughout.	L4635	22.6	23.4	0.8	33
			23.0 - Fine-grained, pale brown vesuvianite, up to 20% finely disseminated throughout, rare irregular patches of black graphite.					
			23.2 - 5 cm silicic band with minor (<1%) vesuvianite at 65° to core axis.	L4636	23.4	24.4	1.0	8
			24.0 - 2 cm silicic band with 1.5 cm halo of medium-grained vesuvianite + sulphide.					
			24.1 - 2 discontinuous bands of pale brown vesuvianite with minor sulphide.					
			25.5-26.0 - Zone of coarse-grained calcite, abundant graphite, and pale green material (epidote?).					
			25.9 - Graphite forms a rosette with acicular crystals radiating outward from central nucleus.					
			26.7 - 14 cm zone with abundant medium-grained biotite disseminated throughout.					
			27.5 - 2 cm epidote vein with minor disseminated pyrrhotite at 55° to core axis.					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			28.3-28.5 - 20 cm zone with abundant fine-grained biotite and abundant vesuvianite and minor disseminated pyrrhotite.	L4637	28.3	29.0	0.7	10
			29.0 - 5 cm buff-pale brown vesuvianite band with minor sulphide at 70° to core axis.	L4638	29.0	30.0	1.0	5
			30.4 - Thin seam of medium-grained biotite.	L4639	30.0	31.1	1.1	6
			30.7 - Two 1 cm bands of pale brown vesuvianite at 80° to core axis.					
			31.6 - 20 cm zone of siliceous marble, 1-3% fine-grained disseminated pyrrhotite and minor vesuvianite, pale green in colour - epidote.	L4640	31.1	32.2	1.1	7
			32.2-33.7 - Medium to dark grey siliceous unit with 0.5 cm round quartz grains within a dark grey mix of minor biotite, chlorite, quartz and epidote, upper contact defined by very coarse-grained calcite, below which is 10 cm zone with 15-20% fine-grained, finely disseminated vesuvianite.	L4641 L4642	32.2 32.6	32.6 33.4	0.4 0.8	8 9
			34.0 - 2 cm discontinuous band of pale yellow-buff vesuvianite with minor disseminated sulphide.	L4643	34.0	35.4	1.4	10
			34.5 - 3 cm siliceous zone with minor pale brown coloured vesuvianite.					
			35.35 - Irregular dark brown vesuvianite bleb approximately 2 cm x 1 cm.					
			35.8 - 15 cm black biotite-rich clastic metasediments, abundant calcite veinlets at various angles to core axis, lower contact at 50° to core axis.					
			37.5 - 5 cm zone with 3-4% disseminated vesuvianite.	L4644	37.2	38.1	0.9	6
			38.1 - Irregular clot of light brown vesuvianite.					
			39.3 - 2 cm biotitic seams at 70° to core axis.					
			39.4 - As above.	L4645*	41.0	42.0	1.0	24
			42.5 - Minor pyrrhotite blebs.					
			44.0 - 3 cm discontinuous fine-grained graphite band.					
			44.3 - Two 3 cm biotitic seams.					
			44.7 - Irregular patch of biotite-rich material sub-parallel to core axis.					
			45.4 - Irregular bleb of pale brown vesuvianite 2 cm diameter.					
			46.6 - 10 cm zone of epidote with minor pyrrhotite, graphite and biotite.					
			48.25-48.4 - Pistachio green zone of epidote alteration with 2-3% pale brown vesuvianite and minor disseminated sulphide.	L4646 L4647	48.2 48.5	48.5 49.9	0.3 1.4	6 5
			48.9 - 5 cm diameter subround bleb of pistachio green epidote alteration with minor disseminated sulphide.					
			49.1-49.2 - Several 1 cm pale brown bands of vesuvianite at 65° to core axis.					
			49.6 - 2 cm vesuvianite band at 70° to core axis.					
			51.5 - Up to 5% biotite.					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			53.5 - 4 cm quartz vein at 40° to core axis.					
			55.4 - 5 cm patch weak epidote alteration associated with a coarse-grained calcite vein.	L4649	56.6	56.9	0.3	72
56.4	58.35	GABBROIC DYKE	Massive medium-grained gabbroic dyke, heavily altered, composed of saussuritized plagioclase within biotite-rich mix, thin chilled margin at upper contact (60° to core axis).					
			56.7 - 1 cm calcite vein with blebs of pyrrhotite and minor chalcopyrite, minor blebby sulphide at lower contact.					
58.35	98.5	1a	Massive, grey medium-grained calcitic marble with 1-2% disseminated graphite throughout.					
			61.15 - 7 cm irregular patch of green epidote with 2-3% pyrrhotite disseminated throughout.	L4648	61.0	61.8	0.8	5
			61.3 - 6 cm zone of vesuvianite + pyrrhotite + graphite.					
			61.7 - 1 cm discontinuous band of pale brown vesuvianite + calcite.					
			62.9 - Minor disseminated blebs of pyrrhotite.	L4650	62.0	63.5	1.5	7
			63.6-64.1 - 2-3% coarse-grained dark brown euhedral vesuvianite crystals disseminated throughout.	L4651	63.5	64.2	0.7	6
				L4652	64.2	65.0	0.8	6
			65.6 - Irregular quartz bleb with pale brown vesuvianite at edges.					
			66.0 - 5 cm patch of coarse-grained biotite.					
			67.7 - Weak banding at 65° to core axis.	L4653	68.0	68.9	0.9	5
			68.9-69.5 - 2-3% coarse-grained brown vesuvianite crystals disseminated throughout.	L4654	68.9	69.5	0.6	5
				L4655	69.5	70.8	1.3	15
			70.7-70.8 - 10 cm patch of pervasive epidote/chlorite alteration with 2-3% graphite disseminated throughout and minor pyrrhotite.					
			72.5 - Weak banding at 45° to core axis.					
			76.5 - Thin calcite vein with large bleb of pyrrhotite.	L4656	76.2	77.2	1.0	16
			76.9 - Thin vesuvianite band at 60° to core axis.					
			77.4 - 10 cm zone with dark brown vesuvianite bands at 65° to core axis.	L4657	77.2	77.5	0.3	6
			78.3-78.5 - 20 cm zone of biotite-rich siliciclastics, lower contact at 65° to core axis.	L4658*	77.5	78.2	0.7	10
			79.9 - 10 cm siliceous, dirty marble.	L4659	79.5	80.4	0.9	6
			80.0-80.2 - Numerous thin black graphite veinlets between 60-70° to core axis.	L4660	80.4	80.7	0.3	7
			80.6 - 10 cm zone of dirty marble with minor pyrrhotite and rare vesuvianite, thin graphite seams at both contacts.	L4661	80.7	81.7	1.0	7
			81.9 - Thin graphite seams at 45° to core axis.					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			82.3 - Phlogopite content of marbles increases to ~4%.					
			82.8 - Large single crystal of dark brown vesuvianite crystals.					
			83.2 - 1-2 cm phlogopite-rich seams.					
			84.5 - Siliceous-biotite-rich marble (5 cm zone).					
			84.5 - Thin discontinuous graphite seams at 55° to core axis.					
			86.3 - 5 cm discontinuous irregular patch of pale brown vesuvianite.					
			87.4 - Oval patch of pale brown vesuvianite (vesuvianite unit parallel to core axis).					
			87.5 - Thin graphitic bands at 30° to core axis.					
			88.9 - 4 cm discontinuous band of vesuvianite at ~85° to core axis.	L4662	88.8	89.8	1.0	5
			89.8 - 3 cm biotite-rich band.	L4663	89.9	90.3	0.4	5
			90.1 - Minor (~1%) fine-grained, finely disseminated vesuvianite.	L4664	90.3	91.0	0.7	8
			90.4-90.6 - Siliceous clastic metasediment unit with minor disseminated pyrrhotite.					
			91.0-91.5 - Up to 4% medium-grained dark brown vesuvianite crystals disseminated throughout.	L4665	91.0	91.5	0.5	8
				L4666*	91.5	93.0	1.5	6
			92.6 - Large 2 x 3 cm knot of dark brown vesuvianite.					
			92.8 - Minor vesuvianite crystals disseminated throughout.					
			93.0 - 4 cm biotite-rich clastic metasediment unit with contacts at 70° to core axis.	L4667	93.0	94.5	1.5	6
			94.0 - Single brown coarse-grained crystal of vesuvianite.	L4668	94.5	95.5	1.0	9
			95.5 - 15 cm biotite-rich clastic metasediment unit.	L4669	95.7	96.0	0.3	12
			95.8 - 14 cm pale brown zone - possibly vesuvianite replacement zone? Graphite at lower contact at 80° to core axis.	L4670	96.0	96.4	0.4	13
			96.4 - Contact between finer and coarser-grained unit.					
			96.9 - 3 cm biotite-rich band.					
			97.4 - 4 cm biotite-rich unit with thin sulphide veinlet parallel to contact at 75° to core axis.					
98.5	99.9	2a	Siliceous clastic metasediment.					
			98.5-98.9 - Dark grey green siliceous unit with thin bands/veinlets of carbonate throughout.					
			98.9-99.5 - Black, biotite-rich clastic metasediment.					
			99.1 - Thin pyrite veinlet at ~85° to core axis.					
			99.3 - Bedding/foliation at 80° to core axis.					
			99.5-99.9 - Biotite content decreases, back into siliceous clastic metasediment.					
			Minor coarse-grained biotite and rare pyrrhotite bleb at lower contact.					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
99.9	101.0	1a	Coarse-grained, grey-white weakly banded calcitic marble, banding at 75° to core axis, minor silvery graphite disseminated throughout.					
	101.0	END OF HOLE						

TECK EXPLORATION LTD.
DIAMOND DRILL LOG

Job 16540 N.T.S. 31 D/09W, 16W
Property Cavendish Zinc
Township Cavendish
Location: Line L6E
Station 100N
Claim No. 1212830
Logged Kerrie Fitzhenry

Objective To test down-dip continuity of mineralization in CPZ-02

Drilling Co. Bradley Bros. Limited
Commenced November 22, 1997
Completed November 23, 1997
Length 134.0 m

Core Location North Bay

Distance to Water 150 m
Casing Lost

Core Size BQ

Tests	Dip	Azimuth
At Collar	50°	323°
50m	48°	
134m	48°	

DRILL HOLE SUMMARY

0.0	4.0	Overburden
4.0	51.2	1a
51.0	53.2	2a
53.2	61.3	1a
61.3	62.6	1a
62.6	84.0	1a
84.0	86.3	2a
86.3	91.6	1a
91.6	134.0	1aB
	134.0	End of Hole

Whole Rock - 11
Assays - 65

* Denotes Whole Rock

Kerrie Fitzhenry

DDL-0673 5-Mar-98

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
0.0	4.0	OVERBURDEN						
4.0	51.2	1a	Medium to coarse-grained, massive to weakly banded calcitic marble, minor medium-grained phlogopite and graphite crystals disseminated throughout	L4546	5.6	6.4	0.8	6
				L4547	6.4	6.7	0.3	6
			6.5 - 5.5 cm 15-20% brown vesuvianite replacement zone at 55° to core axis.	L4548	6.7	7.0	0.3	11
			7.0-7.7 - Zone of fine-grained, black, biotite-rich siliciclastic metasediments with minor disseminated pyrite + pyrrhotite disseminated throughout (<<1%), lower contact at 65° to core axis.	L4549*	7.0	7.7	0.7	67
			8.3 - Rare 0.5 cm thick discontinuous bands of vesuvianite.					
			8.85 - 3 cm thick coarse-grained calcite vein at 80° to core axis.					
			8.9-9.0 - Zone of coarse-grained biotite with chlorite (?).					
			11.5 - Patchy concentrations of medium to coarse-grained biotite.					
			12.0-12.4 - Dark green - black zone with ~50% round to subround quartz grains up to 1 cm diameter within biotite + chlorite rich matrix, minor disseminated sulphide throughout the mix, minor vesuvianite at upper contact, lower contact at 65° to core axis.					
			12.9 - Irregular subround "patch" of vesuvianite + sulphide 1.5 cm diameter.					
			13.3-13.7 - Same as (12.0-12.4 m) interval above, minor blebby pyrrhotite.					
			14.0 - Irregular light brown patch with black graphite at edge.	L4550	14.4	15.0	0.6	216
			15.1 - 10 cm zone with 10-15% coarse-grained vesuvianite crystals disseminated throughout dark grey-black calcite marble, minor fine-grained graphite and pyrrhotite disseminated throughout.	L4551	15.0	15.3	0.3	13
				L4552	15.3	16.4	1.1	14
			16.2 - 3 cm zone of pale yellow bands at 50° to core axis.	L4553*	16.4	17.7	1.3	7
			17.45-17.65 - 20 cm dark grey-black zone of replacement vesuvianite + 3-4% fine-grained disseminated pyrrhotite, very weakly conductive, lower contact has increased pyrrhotite content at ~75° to core axis.	L4554	17.7	18.0	0.3	16
			18.2 - Localized concentration of pyrrhotite + yellow vesuvianite (?).	L4555	18.0	18.5	0.5	7
			18.6 - 2 cm diameter patch with minor brown vesuvianite.	L4556	18.5	20.0	1.5	7
			20.0 - 2 thin pyrrhotite veinlets parallel to core axis.	L4557	20.0	21.3	1.3	10
			21.8-22.5 - Zone containing numerous 1 cm wide brown vesuvianite bands, often with minor (~1%) disseminated pyrrhotite, bands at 65° to core axis.	L4558	21.3	22.5	1.2	7
				L4559	22.5	23.5	1.0	10
			23.15 - 2 cm diameter patch of fine-grained yellow material (?spahlerite) with minor (<1%) fine-grained pyrrhotite.	L4560	23.5	24.1	0.6	45
			23.6 - 3 cm band of medium brown vesuvianite at 60° to core axis.					
			23.7-24.05 - Zone of coarse-grained biotite within quartz + calcite matrix.					
			24.0 - Light brown vesuvianite interstitial to biotite, minor	L4561	24.1	25.1	1.0	14

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			pyrrhotite interstitial to biotite.					
			25.0 - Weak banding at 65° to core axis.					
			26.7 - 3 cm irregular patch of epidote? with minor fine-grained disseminated pyrrhotite + pyrite.	L4562	27.0	28.5	1.5	30
			28.4-28.7 - Zone with pale green fuchsite + 5% coarse-grained brown vesuvianite crystals.	L4563 L4564	28.5 28.8	28.8 29.1	0.3 0.3	8 9
			28.95-29.05 - Pale green/yellow zone (possible vesuvianite) with up to 5% fine-grained finely disseminated pyrrhotite, minor graphite disseminated throughout - possible replacement zone, upper contact at 70° to core axis.					
			29.1-29.7 - Irregularly distributed subround brown blebs of vesuvianite.	L4565	29.1	30.4	1.3	6
			30.6 - 20 cm coarse-grained calcite vein with 1-2% pyrrhotite.	L4566	30.4	31.1	0.7	7
			31.0 - 4 cm coarse-grained calcite vein with minor pyrrhotite + 3-4% brown vesuvianite at 65° to core axis.	L4567	31.1	31.7	0.6	7
			31.5 - Black graphite seam at 50° to core axis.					
			31.6-31.85 - Zone of coarse-grained biotite-rich material with abundant irregular calcite patches, thin seam of graphite at edges.					
			32.4 - Local concentration of fine to medium-grained pyrrhotite disseminated throughout (1-2%).	L4568*	33.9	34.9	1.0	7
			35.4 - Round irregular spahlerite-rich bleb 1.5 cm diameter.	L4569	34.9	35.8	0.9	6
			35.85-36.05 - 20 cm siliceous zone with 3-4% fine-grained finely disseminated pyrrhotite.	L4570	35.8	36.1	0.3	7
			36.5 - Rounded fragment with vesuvianite at edges roughly parallel to core axis.	L4571	36.1	37.4	1.3	7
			37.6-37.9 - Coarse-grained calcite + biotite vein with abundant vesuvianite at upper contact (5 cm zone with 20-25% vesuvianite) minor 1 cm blebs pyrrhotite disseminated throughout.	L4572	37.4	38.0	0.6	35
			38.6 - Patchy discontinuous bands of vesuvianite + 1-2% pyrrhotite.	L4573	38.0	39.3	1.3	8
			39.3 - Minor disseminated honey brown vesuvianite crystals.	L4574	39.3	40.8	1.5	11
			39.4 - Foliation at 45° to core axis.					
			40.05 - Thin graphite seam at 50° to core axis.					
			40.3 - Irregular honey brown vesuvianite bleb.	L4575*	40.8	42.3	1.5	12
			42.5 - Round, 1 cm x 3 cm bleb of light brown vesuvianite + sulphide.	L4576	42.3	43.8	1.5	10
			43.85 - 3 cm light brown-buff band/vein with minor coarse-grained vesuvianite at edges, minor pyrrhotite disseminated throughout (<1%), upper contact at 55° to core axis.	L4577	43.8	44.1	0.3	8
			43.9-44.0 - Zone of buff vesuvianite bands with 1-2% pyrrhotite disseminated throughout and minor coarse-grained vesuvianite crystals, bands at	L4578	44.1	45.0	0.9	7

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			60° to core axis.					
			45.1 - 5 cm band of brown vesuvianite.	L4579	45.0	45.5	0.5	9
			45.2 - 10 cm band of medium brown vesuvianite + minor pyrrhotite + graphite.					
			45.3-45.4 - ~15° to core axis zone of pale green material (fuchsite or serpentine) with pyrrhotite, graphite and vesuvianite at edges.	L4580	45.5	46.1	0.6	9
			46.2 - 2 large spahlerite crystals 2 cm diameter.	L4581	46.1	46.4	0.3	9
			47.3 - Thin graphite veinlets at 40° to core axis.	L4582	46.4	47.5	1.1	8
			47.6-47.8 - 20 cm zone with possible vesuvianite replacement; thick (1 cm)	L4583	47.5	47.85	0.35	8
			veinlet of pyrrhotite at 40° to core axis, abundant disseminated	L4584	47.85	48.5	0.65	7
			pyrrhotite blebs.					
			48.5-48.7 - Irregular zone of biotite-rich siliciclastics with pyrrhotite + minor vesuvianite at contacts.	L4585	48.5	48.9	0.4	17
			48.8-48.9 - Siliceous, biotitic dyke?, round clasts of quartz within matrix of biotite + sulphide, minor vesuvianite at contact at 70° to core axis.	L4586	48.9	50.0	1.1	8
			49.5 - 1-2 cm irregular band of light brown vesuvianite.	L4587	50.0	51.2	1.2	8
51.2	53.2	2a	Medium-grained, black, biotite-rich clastic unit with moderate carbonate content, up to 5% vesuvianite interstitial to biotite at upper contact, up to 10% vesuvianite interstitial to biotite at lower contact, minor fine-grained pyrrhotite disseminated throughout, upper contact at 70° to core axis, lower contact at 60° to core axis.	L4588*	51.2	52.3	1.1	33
				L4589	52.3	53.2	0.9	38
53.2	61.3	1a	Medium-grained, grey to off white "dirty-looking" marble, minor graphite disseminated throughout.					
			53.5 - 3 cm brown vesuvianite band with minor disseminated pyrrhotite at 60° to core axis.	L4590	53.2	54.1	0.9	8
			53.7-53.85 - 15 cm dark grey-brown zone with 20-25% vesuvianite, 3-4% disseminated pyrrhotite, minor green mineral (serpentine/fuchsite), lower contact at 60° to core axis.					
			54.1-54.5 - Coarse-grained calcite vein at upper contact of vesuvianite	L4591	54.1	54.5	0.4	8
			replacement zone. Abundant pyrrhotite (medium to coarse-grained) at	L4592	54.5	55.5	1.0	7
			edges of calcite veins, 20% medium to coarse-grained brown vesuvianite throughout zone, minor graphite at lower contact.					
			55.1 - Thin, elongate, oval zone of pale brown vesuvianite with minor sulphide parallel to core axis.	L4593	55.5	56.6	1.1	7
			55.6 - 1 cm discontinuous band of pale brown vesuvianite perpendicular to core axis.	L4594*	56.6	57.8	1.2	5

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			57.8-57.9 - Irregular patch of green material (serpentine or fuchsite) with minor coarse-grained brown vesuvianite crystals and minor (<1%) pyrrhotite.	L4595	57.8	59.1	1.3	6
			58.0 - 3 cm brown vesuvianite with minor serpentine/fuchsite.					
			58.3 - 10 cm replacement zone with 10-15% brown vesuvianite with 3-4% medium-grained pyrrhotite crystals.					
			58.6-59.0 - 40 cm zone of pervasive serpentinization? with minor patches of brown vesuvianite with minor disseminated sulphide.	L4596	59.1	60.2	1.1	6
			60.2 - 1 cm diameter knot of brown vesuvianite.	L4597	60.2	61.3	1.1	7
61.3	62.6	1a	Very thinly banded, light grey-white calcitic marble, up to 3% black fine-grained "streaky" graphite defining bedding/foliation at 60° to core axis.	L4598	61.3	62.6	1.3	11
62.6	84.0	1a	Light grey-white, medium-grained "dirty" marble, locally weakly banded.	L4599	62.6	63.9	1.3	8
			63.8 - Irregular round "clast" of biotite-rich siliciclastics with 3-4% vesuvianite concentrating at edges.	L4600	63.9	65.0	1.1	7
			64.6 - 2 cm band of pale brown vesuvianite? + 1-2% disseminated sulphide perpendicular to core axis.					
			65.9 - 1 cm band/concentration of medium-grained biotite.					
			67.4 - Patch almost 5 cm diameter of green material (serpentine/fuchsite/epidote).	L4601	67.4	68.0	0.6	6
			67.7 - 2 cm silicic band with vesuvianite at edges at 65° to core axis.	L4602*	68.0	69.5	1.5	6
			69.8-70.0 - Zone of 25% vesuvianite (coarse-grained, brown) with 3-4% disseminated sulphide.	L4603	69.5	70.0	0.5	6
			70.5 - Localized concentration of medium-grained vesuvianite crystals.	L4604	70.0	71.0	1.0	6
			71.1 - Banding at 60° to core axis.					
			72.5 - Thin biotite seams at 60° to core axis.					
			73.9 - Thin graphite veinlets/laminae at 80° to core axis.	L4605	74.0	75.0	1.0	7
			75.1 - 4 cm with several 1 cm wide veinlets of a yellow mineral (possibly vesuvianite?) with minor disseminated sulphides at 75° to core axis.	L4606	75.0	75.3	0.3	6
				L4607	75.3	75.6	0.3	6
			75.6-76.2 - Dark grey-black zone of fine-grained biotite-rich siliciclastics with minor vesuvianite at upper contact.	L4608	75.6	76.2	0.6	10
				L4609	76.2	76.6	0.4	6
			76.6-77.05 - Black, biotite-rich siliciclastic unit with ~1% fine-grained disseminated pyrrhotite throughout; lower contact at 70° to core axis, minor discontinuous pyrrhotite veinlet at 70° to core axis at 76.6 m.					
			78.4-78.5 - Dark grey-black siliceous zone, rare sulphide, upper contact at 40° to core axis, lower contact at 85° to core axis.					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			78.9-79.1 - Light grey siliceous unit, ~1% pyrrhotite blebs.					
			79.6-80.4 - Alteration zone, irregular bands of chert, white mica, phlogopite, and minor fuchsite, less calcitic than calcitic marbles (siliceous marble), banding at 55° to core axis.	L4610	79.6	80.4	0.8	7
			80.65-81.05 - Biotite-rich siliciclastic unit with minor disseminated sulphide, lower contact at 75° to core axis.					
			81.2 - 0.5 cm vesuvianite band at 75° to core axis.					
			81.5-82.3 - Alteration zone.	L4611	81.5	82.3	0.8	12
			81.5-81.8 - Pale yellow-buff coloured zone of pervasive sericite/white mica alteration.					
			81.8-81.9 - Small zone of k-feldspar (pink) + epidote (green) + brown vesuvianite and minor grey-black graphite.					
			81.9-82.3 - Fracture-controlled silicification with minor sulphide and pervasive epidote.					
			82.6 - Thin graphite veinlet at 60° to core axis.					
			83.2-83.7 - Siliceous marble, fine-grained, finely disseminated sulphide throughout, minor phlogopite at lower contact at 80° to core axis.	L4612	83.2	83.7	0.5	114
84.0	86.3	2a	Medium-grained biotite-rich clastic metasediment; upper contact with marbles at 75° to core axis, thin calcite veinlets with minor pyrrhotite at 25° to core axis.					
			85.3 - 3 cm zone of massive calcitic marble.					
86.3	91.6	1a	86.3-88.2 - Alteration zone - moderate pervasive sericite/white mica alteration, patchy pervasive epidote alteration, local vesuvianite mineralization at 86.8-87.1 m; abundant coarse-grained phlogopite at 87.5-87.7 m.	L4613	86.3	87.3	1.0	11
				L4614	87.3	88.2	0.9	8
			88.3 - Several thin graphite veinlets at 60° to core axis.	L4615	88.2	89.1	0.9	7
			88.4 - As above.					
			88.8 - Minor 0.5 cm diameter "knots" of vesuvianite.	L4616*	89.1	90.2	1.1	6
			89.8 - Banding at 55° to core axis. Small white carbonaceous clasts (round, 0.5 cm diameter) within darker grey calcitic marble.					
			90.6 - Banding at 60° to core axis.	L4617	90.2	91.6	1.4	7
			91.2 - 5 cm band of sericitic alteration.					
91.6	134.0	1aB	Coarse-grained white (to grey) calcitic marble, thin grey laminae rendering banded appearance.					
			92.3 - 10 cm zone of biotite-rich clastic metasediment with minor fine-					

Depth (ft) From	Depth (ft) To	Rock Type	Descriptions	Sample No.	From	To	Lgth (ft)	Zn ppm
			grained disseminated sulphide.					
			93.5 - Thin phlogopite band at 75° to core axis.					
			93.8 - 7 cm zone of biotite-rich clastic metasediment with up to 1% fine-grained disseminated pyrite.					
			94.3 - 1 cm biotite seam.					
			95.0 - Banding at 70° to core axis.	L4618*	95.0	96.0	1.0	8
			96.6-96.8 - Biotite-rich siliciclastic unit.					
			98.4-98.6 - As above.					
			99.3-99.4 - As above.					
			100.7 - Banding at 75° to core axis.					
			101.6 - 3 cm k-feldspar vein at 10° to core axis.					
			102.3 - 2 cm biotite seam at 70° to core axis.					
			103.9 - Minor disseminated brown vesuvianite.	L4619	103.7	104.0	0.3	9
			104.5 - Banding at 75° to core axis.					
			105.6 - 10 cm zone of medium to coarse-grained biotite.					
			106.6 - Minor yellow-orange medium to coarse-grained chondrodite crystals.					
			107.4 - 20 cm biotite-rich siliciclastic unit with minor disseminated pyrrhotite.					
			108.5 - 3 cm as above.					
			109.5 - Local concentration of phlogopite + fuchsite.					
			112.9-113.1 - Biotite-rich siliciclastic unit.					
			113.6 - Banding at 75° to core axis.	L4620*	113.4	114.4	1.0	8
			114.9 - 10 cm zone biotite-rich siliciclastic unit.					
			117.0 - Thin seam of phlogopite.					
			118.7 - Thin seam of phlogopite at 75° to core axis.					
			119.6 - 10 cm siliceous zone with minor epidote at edges.					
			120.6-120.9 - Black, biotite-rich siliciclastic unit with minor disseminated sulphide.	L4621*	128.0	129.0	1.0	8
			129.6 - Banding at 65° to core axis.					
			130.6 - 5 cm micaceous zone.					
			131.5 - Banding at 75° to core axis.					
			133.3 - K-feldspar veinlet at 40° to core axis.					
	134.0	END OF HOLE						

2.18356

Legend

Calcareous Metasediments

- 1a Calcitic Marble
- 1aB Banded Marble
- 1b Dolomitic Marble
- 1c Siliceous Marble

Calcareous - Siliciclastic Metasediments

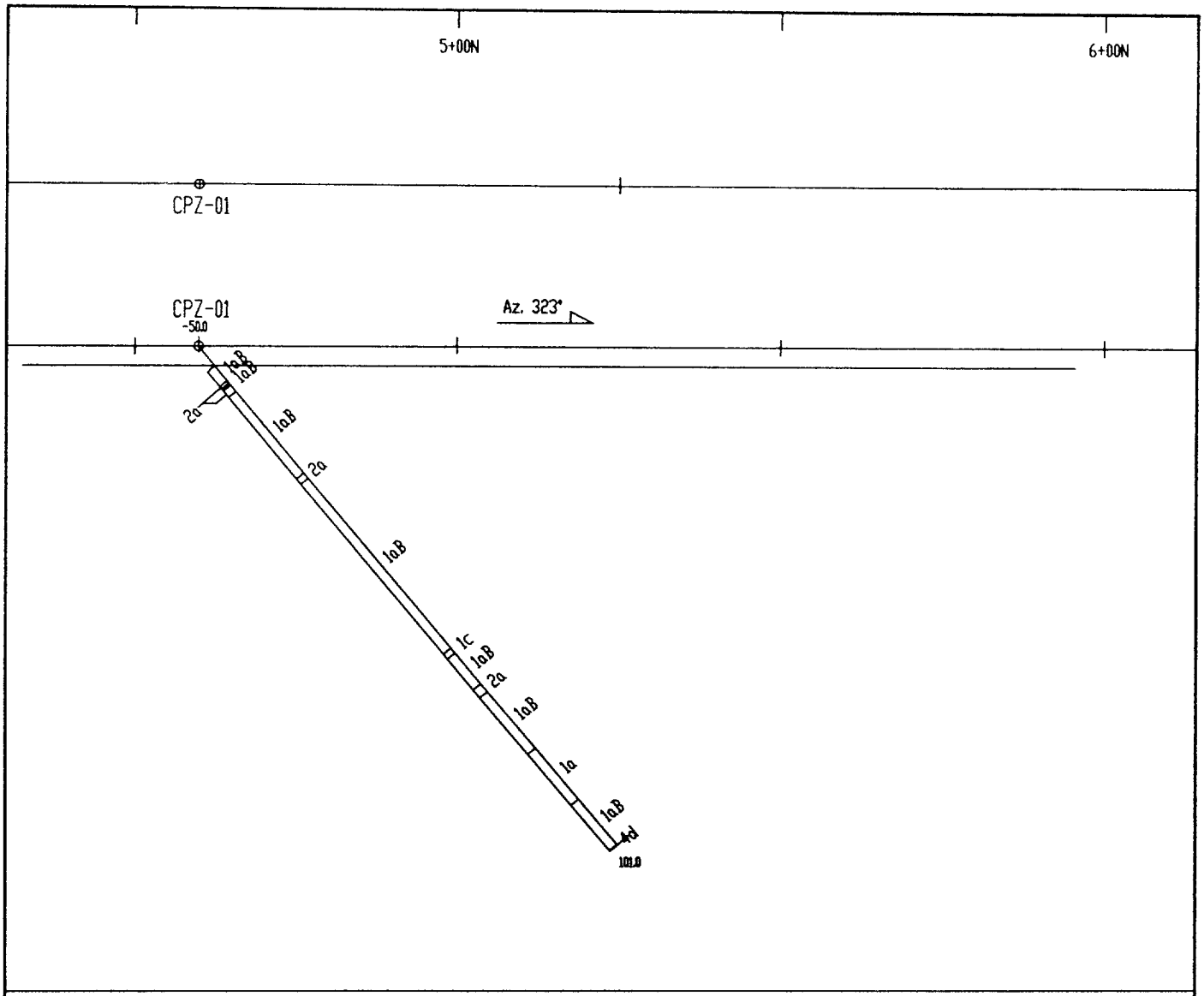
- 2a Siliciclastic Dominated
- 2b Calcareous Metasediments (calcitic marble) Dominated

Siliciclastic Metasediments

- 3a Biotite-rich, Quartzo-feldspathic Meta-arenite

Intrusive Rocks

- 4a Gabbro, Diorite, Leucocratic Gabbro
- 4b Porphoritic Granite
- 4c Granite Pegmatite
- 4d Lherzolite, Dunite



20 0 10 20 30 40

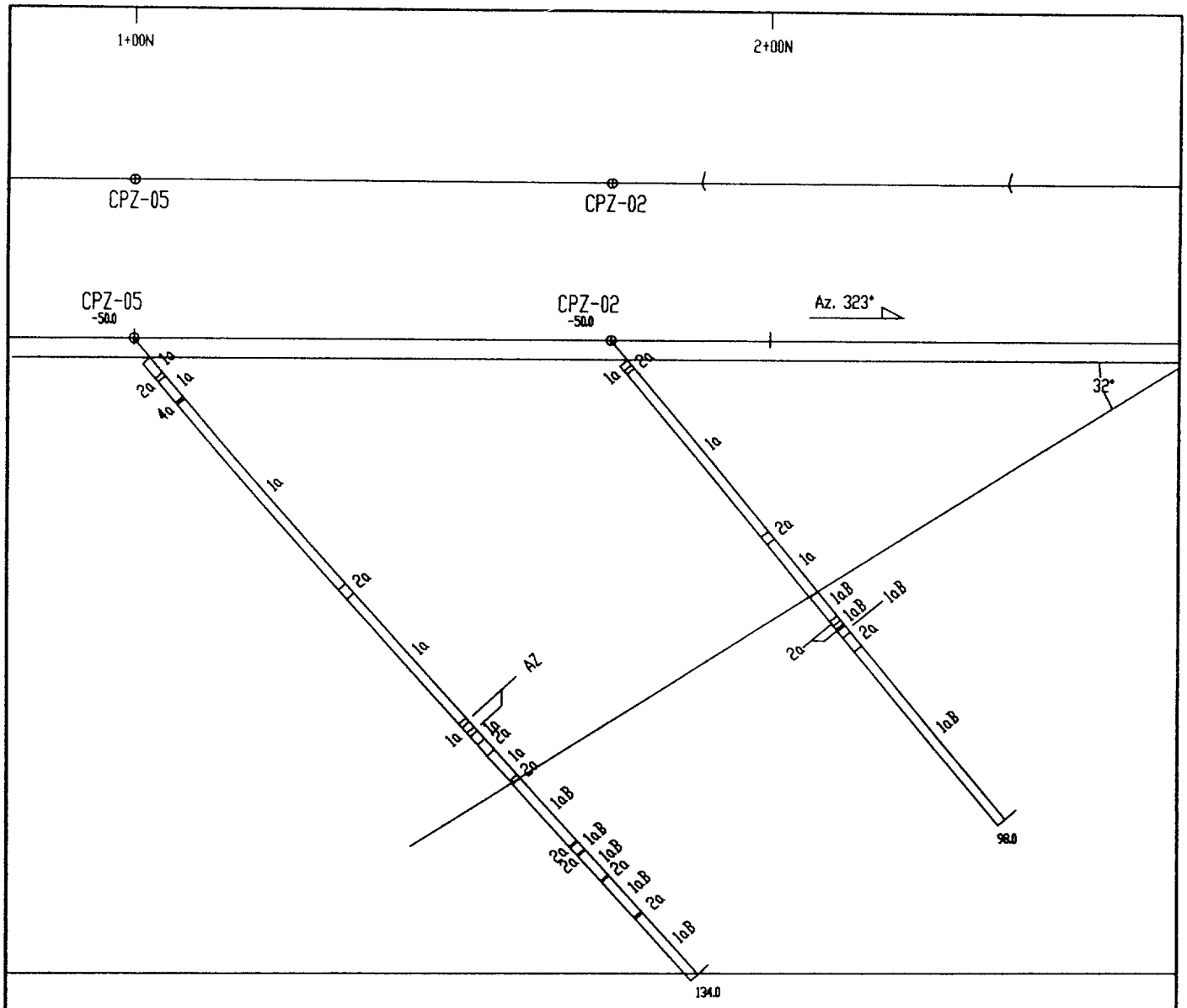
metres

TECK EXPLORATION LTD

SECTION THROUGH L.5+00mE

CAVENDISH PROJECT
CAVENDISH TOWNSHIP, ONT

DATE: MAR.1998	SCALE: 1:1 000	Figure 11
DRAWN By: BERNIE HOPKINS	JOB No. 16540	
APPROVED: K. FITZHENRY	N.T.S. 31 D/9,16	



20 0 10 20 30 40

metres

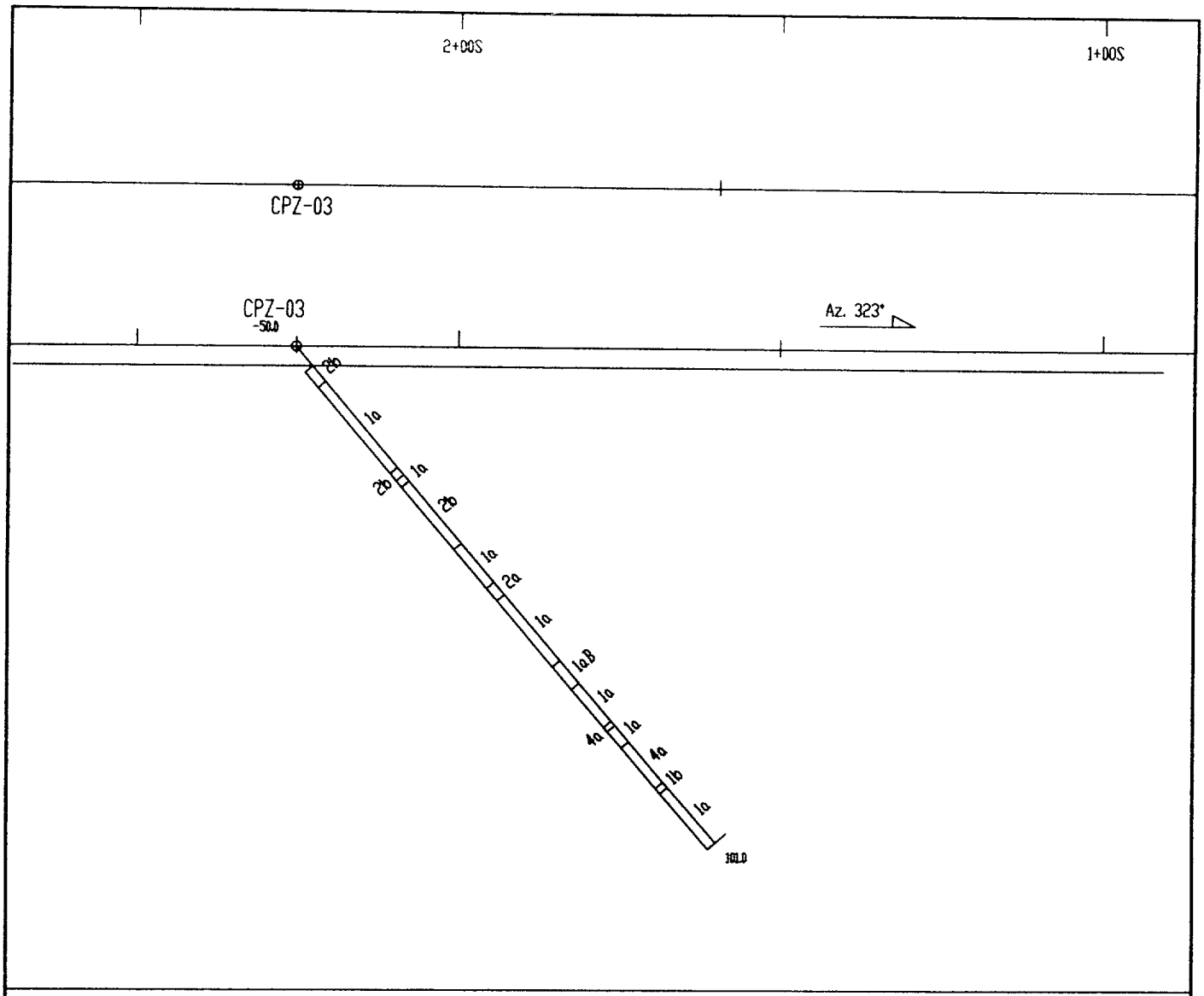
TECK EXPLORATION LTD

SECTION THROUGH L.6+00mE

CAVENDISH PROJECT

CAVENDISH TOWNSHIP, ONT

DATE: MAR. 1998	SCALE: 1:1 000	Figure 12
DRAWN By: BERNIE HOPKINS	JOB No. 16540	
APPROVED: K. FITZHENRY	N.T.S. 31 D/9,16	



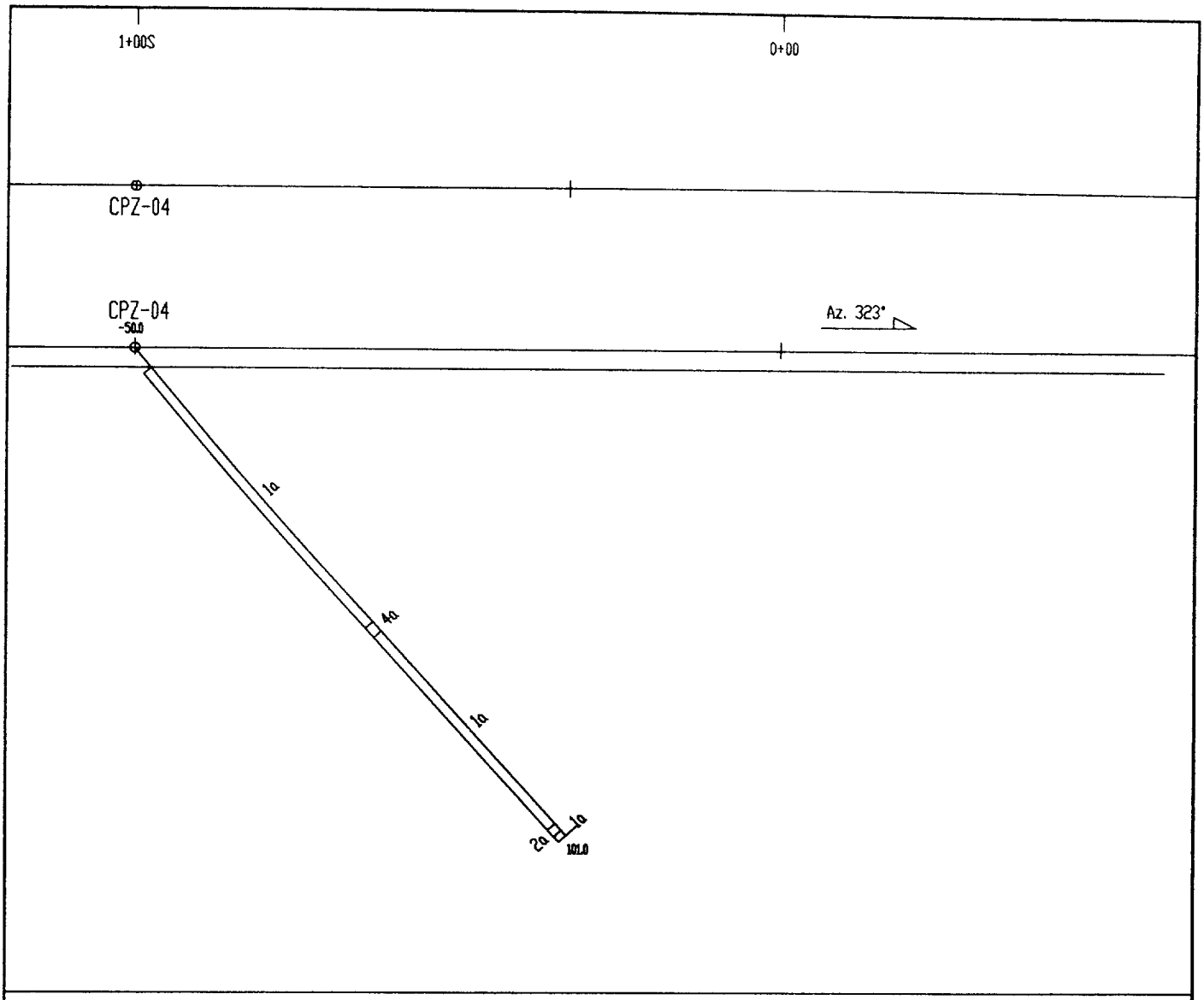
20 0 10 20 30 40
metres

TECK EXPLORATION LTD

SECTION THROUGH L.4+00mW

CAVENDISH PROJECT
CAVENDISH TOWNSHIP, ONT

DATE: MAR. 1998	SCALE: 1:1 000	Figure 13
DRAWN By: BERNIE HOPKINS	JOB No. 16540	
APPROVED: K. FITZHENRY	N.T.S. 31 D/9,16	



20 0 10 20 30 40
metres

TECK EXPLORATION LTD

SECTION THROUGH L.8+00mW

CAVENDISH PROJECT
CAVENDISH TOWNSHIP, ONT

DATE: MAR. 1998	SCALE: 1:1 000	Figure 14
DRAWN By: BERNIE HOPKINS	JOB No. 16540	
APPROVED: K. FITZHENRY	N.T.S. 31 D/9,16	

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TÉL.: (819) 764-9108 FAX: (819) 764-4673

CERTIFICAT D'ANALYSE/CERTIFICATE OF ANALYSIS

R13627

Nom de la Compagnie/Company: Teck Exploration
Bon de Commande No/ P.O. No:
Projet/ Project No : 16540
Date Soumis/ Submitted : Dec 01, 1997 Dec 03, 1997
Attention : Kerrie Fitzhenry

No. D'Echantillon Sample No.	ZN PPM
L04546	6
L04547	6
L04548	11
L04549	67
L04550	216
L04551	13
L04552	14
L04553	7
L04554	16
L04555	7
L04556	7
L04557	10
L04558	7
L04559	10
L04560	45
L04561	14
L04562	30
L04563	8
L04564	9
L04565	6
L04566	7
L04567	7
L04568	7
L04569	6
L04570	7
L04571	7
L04572	35
L04573	8
L04574	11
L04575	12
L04576	10
L04577	8
L04578	7
L04579	9
L04580	9
L04581	9
L04582	8
L04583	9
L04584	7

31D16SW2001 2.18356 CAVENDISH 020

Certifie par / Certified by :

XRAL

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No. D'Echantillon Sample No.	ZN PPM
L04585	17
L04586	8
L04587	8
L04588	33
L04589	38
L04590	8
L04591	8
L04592	7
L04593	7
L04594	5
L04595	6
L04596	6
L04597	7
L04598	11
L04599	8
L04600	7
L04601	6
L04602	6
L04603	6
L04604	6
L04605	7
L04606	6
L04607	6
L04608	10
L04609	6
L04610	7
L04611	12
L04612	114
L04613	11
L04614	8
L04615	7
L04616	6
L04617	7
L04618	8
L04619	9
L04620	8
L04621	8
L04622	11
L04623	33

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Projet/ Project No : 16540
Date Soumis/ Submitted : Dec 01, 1997
Attention : Kerrie Fitzhenry

Dec 03, 1997

No. D'Echantillon Sample No.	ZN PPM
L04624	10
L04625	30
L04626	13
L04627	16
L04628	9
L04629	7
L04630	6
L04631	6
L04632	7

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CERTIFICAT D'ANALYSE/CERTIFICATE OF ANALYSIS

R13626

Nom de la Compagnie/Company: Teck Exploration
Bon de Commande No/ P.O. No:
Projet/ Project No : 16540
Date Soumis/ Submitted : Dec 01, 1997 Dec 03, 1997
Attention : Kerrie Fitzhenry

No. D'Echantillon / Sample No.	ZN PPM
L04501	9
L04502	5
L04503	5
L04504	6
L04505	5
L04506	7
L04507	11
L04508	8
L04509	7
L04510	6
L04511	6
L04512	6
L04513	6
L04514	6
L04515	6
L04516	8
L04517	6
L04518	6
L04519	11
L04520	6
L04521	30
L04522	6
L04523	6
L04524	6
L04525	7
L04526	6
L04527	7
L04528	7
L04529	8
L04530	11
L04531	9
L04532	14
L04533	15
L04534	8
L04535	8
L04536	15
L04537	7
L04538	9
L04539	10

Certifie par / Certified by :

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Bon de Commande No/ P.O. No:
Projet/ Project No : 16540
Date Soumis/ Submitted : Dec 01, 1997 Dec 03, 1997
Attention : Kerrie Fitzhenry

No. D'Echantillon Sample No.	ZN PPM
L04540	10
L04541	13
L04542	10
L04543	12
L04544	14
L04545	10

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TEL.: (819) 764-9108 FAX: (819) 764-4673

your ref: 16540 our ref: 18808/R13626

CERTIFICAT D'ANALYSE/ASSAY CERTIFICATE

December 24, 1997

TECK EXPLORATION LTD
R R#5-19 LEGAULT STREET
NORTH BAY, ONTARIO
P1B 8Z4

ATTENTION: KERRIE FITZHENRY

Date soumis/ Submitted: Dec 01, 1997

No. of samples: 14 No. of pages: 5

ELEMENTS	METHOD	DETECTION LIMIT
11 elements scan	aqua/regiaICP	
WRMAJ %	XRF-100	.01
WRMIN PPM	XRF-7	
BA PPM	XRF-7	20.

Certifié par/Certified by:

J.J Landers Gérant/Manager

XRAL Laboratories
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Work Order: 018808 Date: 24/12/97 FINAL

Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum	Rb
Method.	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	2
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm
L04505	14.4	2.37	45.4	1.41	0.25	1.01	1.52	0.02	0.161	0.06	<0.01	32.5	99.4	19
L04510	13.9	2.43	45.2	1.29	0.29	1.25	1.60	0.02	0.169	0.06	<0.01	32.7	99.2	18
L04521	18.7	3.32	43.6	1.68	0.48	1.18	2.00	0.02	0.216	0.06	<0.01	28.7	100.3	22
L04536	9.89	1.88	47.9	1.29	0.17	0.66	1.25	0.02	0.124	0.05	<0.01	36.0	99.6	12
L04539	9.42	1.55	49.6	1.36	0.09	0.66	0.98	<0.01	0.109	0.03	<0.01	36.5	100.5	12
L04543	1.86	0.57	49.6	4.99	0.01	0.05	0.29	<0.01	0.015	0.02	<0.01	42.3	99.7	5
L04544	1.57	0.38	48.7	4.68	<0.01	0.09	0.34	0.05	0.035	0.01	<0.01	42.9	98.8	6
L04545	2.09	0.50	50.7	3.52	<0.01	0.09	0.26	0.01	0.041	0.02	<0.01	42.2	99.5	4
L04507(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04511(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04516(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04522(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04528(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04538(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
*Dup L04505	14.3	2.34	45.6	1.38	0.26	1.04	1.49	0.02	0.159	0.05	<0.01	32.9	99.8	18
*Dup L04528(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

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Work Order: 018808 Date: 24/12/97 FINAL

Element.	Sr	Y	Zr	Nb	Ba	Be	Na	Mg	Al	P	K	Ca	Sc	Ti
Method.	XRF102	XRF102	XRF102	XRF102	XRF102	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	2	2	2	2	20	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01
Units.	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	%
L04505	2370	2	106	<2	60	<0.5	<0.01	0.01	0.03	0.02	<0.01	26.5	<0.5	<0.01
L04510	2730	<2	122	5	111	<0.5	<0.01	0.02	0.04	0.02	<0.01	26.5	<0.5	<0.01
L04521	2390	3	118	4	171	<0.5	<0.01	0.02	0.05	0.02	<0.01	25.0	<0.5	0.01
L04536	2800	2	111	<2	270	<0.5	0.01	0.07	0.05	0.02	0.02	28.2	<0.5	<0.01
L04539	2200	<2	100	<2	103	<0.5	<0.01	0.05	0.04	0.01	0.02	28.5	<0.5	<0.01
L04543	268	<2	19	<2	<20	<0.5	0.02	2.54	0.06	<0.01	0.01	29.0	<0.5	<0.01
L04544	273	<2	19	4	57	<0.5	<0.01	2.47	0.02	<0.01	0.02	29.5	<0.5	<0.01
L04545	277	<2	20	2	33	<0.5	<0.01	1.60	0.01	<0.01	0.02	29.8	<0.5	<0.01
L04507(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	0.11	0.15	0.85	0.08	0.01	3.82	<0.5	0.09
L04511(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	0.16	0.06	0.63	0.02	0.02	9.21	<0.5	0.05
L04516(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	0.19	0.10	0.60	0.03	0.07	18.0	<0.5	0.02
L04522(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	0.09	0.03	0.29	0.02	<0.01	13.6	<0.5	0.02
L04528(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	<0.01	0.02	0.11	0.03	<0.01	18.9	<0.5	0.02
L04538(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	0.02	0.06	0.25	0.04	0.02	16.1	<0.5	0.02
*Dup L04505	2360	2	104	<2	55	<0.5	<0.01	0.02	0.03	0.02	<0.01	26.3	<0.5	<0.01
*Dup L04528(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	<0.01	0.03	0.12	0.02	<0.01	18.2	<0.5	0.02

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Element.	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	2	1	2	0.01	1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2
Units.	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L04505	<2	4	43	0.32	1	5	4.5	0.6	<3	1780	2.3	<0.5	<1	<0.2
L04510	<2	7	65	0.40	2	6	6.3	0.5	<3	1970	3.4	<0.5	<1	<0.2
L04521	2	9	50	0.72	3	7	6.9	27.0	<3	1290	2.8	<0.5	1	<0.2
L04536	<2	4	78	0.35	2	4	4.2	7.9	<3	2160	3.2	<0.5	1	<0.2
L04539	<2	3	35	0.29	1	4	3.0	2.1	<3	1880	2.6	<0.5	<1	0.2
L04543	<2	2	67	0.08	<1	2	2.0	5.0	<3	264	2.8	<0.5	<1	<0.2
L04544	<2	1	278	0.14	<1	<1	1.1	6.1	<3	272	3.1	<0.5	<1	<0.2
L04545	<2	1	86	0.09	<1	2	2.6	1.7	<3	273	3.2	<0.5	<1	<0.2
L04507(EXTRA)	19	65	51	2.95	15	8	26.1	8.0	5	264	2.0	1.6	5	<0.2
L04511(EXTRA)	11	33	51	2.22	17	7	20.8	2.6	<3	654	2.9	1.0	3	<0.2
L04516(EXTRA)	4	11	99	1.04	11	33	16.7	2.7	<3	1700	3.0	<0.5	<1	<0.2
L04522(EXTRA)	5	11	51	0.77	6	11	8.6	0.6	<3	1210	2.7	<0.5	1	<0.2
L04528(EXTRA)	4	10	35	1.09	7	8	11.7	0.9	<3	1180	1.9	<0.5	1	<0.2
L04538(EXTRA)	2	12	37	2.18	8	6	12.6	2.8	<3	992	3.1	1.0	2	0.3
*Dup L04505	<2	6	42	0.34	1	5	5.0	0.8	<3	1820	2.3	<0.5	1	<0.2
*Dup L04528(EXTRA)	4	9	34	1.03	6	8	9.7	1.0	<3	1140	2.0	<0.5	1	<0.2

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Element.	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L04505	< 1	< 10	< 5	2	2.1	< 10	3	< 5
L04510	< 1	< 10	< 5	1	1.9	< 10	5	< 5
L04521	< 1	< 10	< 5	1	2.7	< 10	3	< 5
L04536	< 1	< 10	< 5	14	2.1	< 10	5	< 5
L04539	< 1	< 10	< 5	4	1.9	< 10	3	< 5
L04543	< 1	< 10	< 5	9	1.3	< 10	< 2	< 5
L04544	< 1	< 10	< 5	20	1.6	< 10	2	< 5
L04545	< 1	< 10	< 5	12	1.7	< 10	3	< 5
L04507(EXTRA)	< 1	< 10	< 5	1	3.8	< 10	3	< 5
L04511(EXTRA)	< 1	< 10	< 5	2	3.2	< 10	3	< 5
L04516(EXTRA)	< 1	< 10	< 5	10	1.9	< 10	7	< 5
L04522(EXTRA)	< 1	< 10	< 5	1	2.1	< 10	3	< 5
L04528(EXTRA)	< 1	< 10	< 5	1	2.3	< 10	3	< 5
L04538(EXTRA)	< 1	< 10	< 5	3	3.3	< 10	3	< 5
*Dup L04505	< 1	< 10	< 5	2	1.9	< 10	3	< 5
*Dup L04528(EXTRA)	< 1	< 10	< 5	1	2.3	< 10	< 2	< 5

LES LABORATOIRES XRAL LABORATORIES
UNE DIVISION DE / A DIVISION OF SGS CANADA INC.
129 AVE. REAL CAOUETTE • C.P. 2283 • ROUYN-NORANDA • QUÉBEC J9X 5A9
TEL.: (819) 764-9108 FAX: (819) 764-4673

your ref: 16540 our ref: 18809/R13627

CERTIFICAT D'ANALYSE/ASSAY CERTIFICATE

December 24, 1997

TECK EXPLORATION LTD
R.R#5-19 LEGAULT STREET
NORTH BAY, ONTARIO
P1B 8Z4

ATTENTION: KERRIE FITZHENRY

Date soumis/ Submitted: Dec 01, 1997

No. of samples: 20 No. of pages: 5

ELEMENTS	METHOD	DETECTION LIMIT
31 elements scan	aqua/regiaICP	
WRMAJ %	XRF-100	.01
WRMIN PPM	XRF-7	
BA PPM	XRF-7	20.

Certifié par/Certified by:

J.J. Landers Gérant/Manager

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Element.	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3	LOI	Sum	Rb
Method.	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102	XRF102
Det.Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	2
Units.	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm
L4549	48.3	15.6	11.0	3.84	3.41	3.23	9.47	0.06	1.506	0.39	<0.01	1.30	98.6	110
L4553	13.2	2.31	46.1	1.38	0.25	1.05	1.39	0.02	0.134	0.05	<0.01	33.7	100.0	17
L4568	22.3	3.68	41.5	1.57	0.57	1.21	1.98	0.02	0.236	0.06	<0.01	25.5	98.9	25
L4575	13.0	2.00	46.3	1.36	0.16	0.96	1.25	0.01	0.143	0.05	<0.01	33.2	98.8	17
L4588	45.7	18.8	12.4	2.56	3.61	2.90	9.88	0.19	0.768	0.38	<0.01	1.15	98.8	59
L4594	18.0	3.05	43.9	1.52	0.45	0.87	1.69	0.01	0.195	0.05	<0.01	29.2	99.1	20
L4602	15.5	2.66	45.3	1.35	0.18	1.22	1.53	0.02	0.168	0.05	<0.01	31.8	100.1	20
L4616	16.5	2.96	44.7	1.23	0.33	1.07	1.47	0.01	0.168	0.05	<0.01	31.2	100.0	21
L4618	1.77	0.45	49.5	4.04	<0.01	0.11	0.28	<0.01	0.041	0.02	<0.01	42.7	98.9	5
L4620	2.04	0.41	50.1	3.84	<0.01	0.10	0.30	<0.01	0.039	0.02	<0.01	43.0	99.9	6
L4621	2.64	0.52	49.8	3.62	<0.01	0.22	0.36	<0.01	0.043	0.02	<0.01	42.2	99.5	6
L4622	1.28	0.32	50.8	3.63	<0.01	0.06	0.37	<0.01	0.034	0.01	<0.01	43.4	99.8	5
L4624	3.38	0.88	49.2	3.72	0.07	0.12	0.46	0.01	0.077	0.02	<0.01	41.6	99.6	5
L4625	67.6	14.5	2.71	0.52	3.94	5.51	1.66	<0.01	0.316	0.04	0.01	1.50	98.5	153
L4626	1.58	0.48	50.3	3.73	0.02	0.11	0.36	0.01	0.037	0.02	<0.01	42.7	99.3	5
L4627	1.98	0.42	50.5	3.18	<0.01	0.15	0.29	0.02	0.037	0.02	<0.01	42.7	99.3	7
L4632	9.09	2.39	46.4	3.22	0.66	0.37	0.74	0.01	0.103	0.03	<0.01	37.3	100.3	14
L04551(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04583(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04603(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
*Dup L4549	48.5	15.6	11.0	3.85	3.41	3.25	9.47	0.07	1.504	0.39	<0.01	1.40	98.9	109
*Dup L4624	3.38	0.87	49.1	3.72	0.07	0.12	0.46	0.01	0.078	0.02	<0.01	41.6	99.5	6

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Element.	Sr	Y	Zr	Nb	Ba	Be	Na	Mg	Al	P	K	Ca	Sc	Ti
Method.	XRF102	XRF102	XRF102	XRF102	XRF102	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	2	2	2	2	20	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01
Units.	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	ppm	%
L4549	1760	28	251	8	1750	<0.5	0.11	1.14	1.69	0.17	1.26	2.03	3.1	0.15
L4553	3400	<2	128	3	96	<0.5	<0.01	0.06	0.06	0.02	0.01	22.3	<0.5	<0.01
L4568	2070	4	113	3	126	<0.5	<0.01	<0.01	0.07	0.02	<0.01	19.6	<0.5	0.01
L4575	2290	2	112	3	93	<0.5	<0.01	<0.01	0.05	0.02	0.01	22.7	<0.5	<0.01
L4588	1910	21	213	8	754	<0.5	0.45	0.47	1.77	0.16	0.33	2.49	0.8	0.09
L4594	1600	2	99	3	116	<0.5	<0.01	<0.01	0.04	0.02	<0.01	21.1	<0.5	<0.01
L4602	2500	2	114	3	91	<0.5	<0.01	<0.01	0.04	0.02	<0.01	21.5	<0.5	<0.01
L4616	2190	2	115	2	135	<0.5	<0.01	<0.01	0.05	0.02	<0.01	21.7	<0.5	<0.01
L4618	308	3	25	2	<20	<0.5	<0.01	1.94	0.02	<0.01	<0.01	23.9	<0.5	<0.01
L4620	284	<2	24	<2	<20	<0.5	<0.01	1.75	0.02	<0.01	0.01	24.2	<0.5	<0.01
L4621	315	<2	27	2	<20	<0.5	<0.01	1.43	0.02	<0.01	0.01	24.1	<0.5	<0.01
L4622	326	2	24	<2	<20	<0.5	<0.01	1.75	0.02	<0.01	<0.01	24.8	<0.5	<0.01
L4624	412	2	29	<2	75	<0.5	0.02	1.61	0.09	<0.01	0.02	24.8	0.5	<0.01
L4625	176	24	215	21	651	<0.5	0.03	0.26	0.49	0.02	0.37	1.26	1.2	0.06
L4626	257	2	17	<2	62	<0.5	<0.01	1.83	0.02	<0.01	<0.01	25.2	<0.5	<0.01
L4627	481	<2	30	2	36	<0.5	<0.01	1.46	0.04	<0.01	0.04	25.1	<0.5	<0.01
L4632	411	2	55	2	<20	<0.5	0.02	1.01	0.18	0.01	0.14	23.2	0.7	0.02
L04551(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	<0.01	0.29	0.18	0.05	0.02	15.9	0.5	0.03
L04583(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	0.23	0.09	1.19	0.04	0.03	8.89	<0.5	0.08
L04603(EXTRA)	n.a.	n.a.	n.a.	n.a.	n.a.	<0.5	0.05	0.02	0.22	0.02	<0.01	17.0	<0.5	0.02
*Dup L4549	1750	28	253	9	1770	<0.5	0.09	1.09	1.65	0.17	1.30	2.09	2.5	0.13
*Dup L4624	414	2	29	<2	73	<0.5	0.01	1.59	0.09	<0.01	0.02	25.1	0.5	<0.01

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Element.	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	2	1	2	0.01	1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2
Units.	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L4549	62	37	202	3.80	18	9	17.7	65.5	<3	174	4.0	4.8	4	<0.2
L4553	<2	12	69	0.38	<1	4	2.6	<0.5	<3	2740	3.7	0.6	<1	<0.2
L4568	2	5	59	0.70	2	8	4.6	<0.5	<3	1380	2.4	0.8	2	<0.2
L4575	<2	5	36	0.40	1	4	3.0	1.5	<3	1900	1.8	<0.5	2	<0.2
L4588	42	27	499	2.59	8	1	1.4	42.3	<3	415	12.5	17.9	3	<0.2
L4594	<2	24	44	0.65	2	7	3.0	<0.5	<3	1030	1.7	1.0	2	<0.2
L4602	<2	5	48	0.46	<1	5	2.6	<0.5	<3	2000	2.2	0.6	<1	<0.2
L4616	<2	4	45	0.39	<1	4	1.5	<0.5	<3	1640	1.8	0.5	<1	<0.2
L4618	<2	<1	68	0.08	<1	<1	<0.5	<0.5	<3	309	3.1	<0.5	1	<0.2
L4620	<2	<1	90	0.08	<1	<1	<0.5	<0.5	<3	287	3.3	<0.5	3	<0.2
L4621	<2	<1	88	0.11	<1	<1	<0.5	<0.5	<3	308	3.6	<0.5	3	<0.2
L4622	<2	<1	81	0.07	<1	<1	<0.5	3.4	<3	340	3.2	<0.5	3	<0.2
L4624	<2	<1	101	0.15	<1	<1	<0.5	4.5	<3	411	4.0	<0.5	<1	<0.2
L4625	6	60	96	1.15	2	3	5.9	29.5	<3	23.8	15.8	19.8	4	<0.2
L4626	<2	<1	87	0.08	<1	<1	<0.5	6.6	<3	263	2.9	0.7	<1	<0.2
L4627	<2	2	133	0.11	<1	<1	<0.5	15.3	<3	483	3.5	0.8	<1	<0.2
L4632	3	2	108	0.30	<1	<1	<0.5	3.6	<3	392	3.7	1.4	<1	<0.2
L04551(EXTRA)	6	25	46	0.77	4	12	13.2	6.7	<3	1760	3.9	1.1	<1	<0.2
L04583(EXTRA)	13	33	76	3.48	23	14	34.8	4.5	12	1510	3.2	2.5	3	<0.2
L04603(EXTRA)	4	12	71	0.73	4	6	4.9	1.2	<3	1770	2.3	0.7	<1	<0.2
*Dup L4549	58	38	192	3.79	18	9	17.1	68.9	<3	177	3.6	4.0	3	<0.2
*Dup L4624	<2	<1	99	0.16	<1	<1	<0.5	4.4	<3	412	3.9	<0.5	<1	<0.2

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Element.	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L4549	<1	<10	<5	245	13.6	<10	6	<5
L4553	<1	<10	18	2	2.3	<10	<2	<5
L4568	<1	<10	11	<1	1.0	<10	<2	<5
L4575	<1	<10	8	<1	0.7	<10	<2	<5
L4588	<1	<10	<5	12	18.7	<10	5	<5
L4594	<1	<10	7	<1	0.6	<10	3	<5
L4602	<1	<10	12	<1	0.7	<10	<2	<5
L4616	<1	<10	<5	2	<0.5	<10	<2	<5
L4618	<1	<10	6	10	0.6	<10	<2	<5
L4620	<1	<10	<5	10	<0.5	<10	<2	<5
L4621	<1	<10	<5	9	0.6	<10	<2	<5
L4622	<1	<10	8	8	<0.5	<10	3	<5
L4624	<1	<10	<5	23	1.3	<10	<2	<5
L4625	<1	<10	<5	40	48.8	<10	13	<5
L4626	<1	14	<5	19	<0.5	<10	<2	<5
L4627	<1	<10	<5	22	1.1	<10	<2	<5
L4632	<1	11	<5	10	1.1	<10	20	<5
L04551(EXTRA)	<1	<10	<5	5	1.9	<10	<2	<5
L04583(EXTRA)	<1	<10	<5	2	8.8	<10	6	<5
L04603(EXTRA)	<1	<10	<5	<1	0.6	<10	<2	<5
*Dup L4549	<1	<10	<5	243	12.7	<10	5	<5
*Dup L4624	<1	<10	<5	23	0.8	<10	<2	<5

LES LABORATOIRES XRAL LABORATORIES
UNE DIVISION DE / A DIVISION OF SGS CANADA INC.
129 AVE. REAL CAQUETTE - C.P. 2283 - ROUYN-NORANDA - QUÉBEC J9X 5A9
TEL.: (819) 764-9108 FAX: (819) 764-4673

your ref: 16540

our ref: 18875/R13639

CERTIFICAT D'ANALYSE/ASSAY CERTIFICATE

December 24, 1997

TECK EXPLORATION LTD
R.R#5-19 LEGAULT STREET
NORTH BAY, ONTARIO
P1B 8Z4

ATTENTION: KERRIE FITZHENRY

Date soumis/ Submitted: Dec 03, 1997

No. of samples: 13

No. of pages: 5

ELEMENTS	METHOD	DETECTION LIMIT
31 elements scan	aqua/regiaICP	
WRMAJ %	XRF-100	.01
WRMIN PPM	XRF-7	
BA PPM	XRF-7	20.

Certifié par/Certified by:

J.J. Landers Gérant/Manager

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 018875 Date: 24/12/97 FINAL

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm
L04633	<0.5	0.03	0.10	0.09	0.03	0.01	27.3	<0.5	<0.01	3	8	84	0.72	5
L04637	<0.5	0.14	0.12	0.48	0.08	0.03	17.3	<0.5	0.04	5	21	82	0.93	7
L04645	<0.5	0.03	0.11	0.07	0.01	0.05	>30.0	<0.5	0.01	<2	10	64	0.28	2
L04649	<0.5	0.16	2.11	1.58	0.30	1.16	3.28	3.6	0.13	60	206	236	5.14	54
L04658	<0.5	0.02	0.04	<0.01	0.02	<0.01	29.9	<0.5	<0.01	<2	6	84	0.29	2
L04666	<0.5	0.04	0.02	0.08	0.02	<0.01	25.2	<0.5	0.01	<2	11	61	0.50	2
L04669	<0.5	0.04	0.14	0.31	0.02	0.05	18.2	<0.5	0.04	9	15	50	1.06	7
L04671	<0.5	0.04	1.30	0.10	<0.01	0.06	29.9	<0.5	<0.01	2	5	136	0.58	5
L04672	0.5	0.30	1.40	1.68	0.07	0.36	5.93	2.9	0.06	32	77	162	3.58	38
L04675	<0.5	0.04	1.42	0.29	0.01	0.34	29.3	<0.5	0.01	4	8	128	0.38	2
L04677	<0.5	0.04	2.48	0.26	<0.01	0.30	27.9	1.0	0.02	7	12	206	0.72	3
L04678	<0.5	0.03	0.25	0.08	<0.01	0.09	29.8	<0.5	<0.01	<2	7	36	0.28	2
L04680	<0.5	0.05	11.3	0.09	<0.01	0.04	17.9	<0.5	0.02	2	15	116	0.66	3
*Dup L04633	<0.5	0.03	0.09	0.09	0.03	0.01	25.9	<0.5	<0.01	3	8	80	0.67	5
*Dup L04680	<0.5	0.06	11.4	0.10	<0.01	0.03	17.9	<0.5	0.02	2	14	116	0.67	2

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 018875 Date: 24/12/97 FINAL

Element.	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L04633	10	40.1	5.7	11	2890	4.0	0.7	<1	<0.2	<1	<10	<5	4	1.9
L04637	7	11.6	9.4	<3	1580	4.1	1.4	2	<0.2	<1	<10	<5	3	2.0
L04645	3	2.4	16.9	<3	2470	2.3	1.2	<1	<0.2	<1	<10	<5	14	1.3
L04649	324	92.9	74.0	<3	226	4.5	4.1	3	0.9	<1	<10	<5	347	32.6
L04658	3	4.3	5.3	<3	2510	3.2	0.7	<1	<0.2	<1	<10	<5	4	1.4
L04666	6	7.0	1.5	<3	1750	3.4	0.8	<1	<0.2	<1	<10	<5	2	1.8
L04669	11	13.1	6.3	<3	1220	2.6	2.3	<1	<0.2	<1	<10	<5	5	2.3
L04671	1	2.9	11.8	<3	1110	1.6	<0.5	<1	<0.2	<1	<10	<5	69	1.7
L04672	90	94.1	11.6	<3	622	3.5	1.3	2	0.3	<1	<10	<5	118	6.2
L04675	2	2.8	5.5	<3	531	3.0	<0.5	<1	<0.2	<1	<10	<5	55	2.8
L04677	3	4.7	20.7	3	1590	4.0	<0.5	<1	<0.2	<1	<10	<5	41	2.6
L04678	3	1.9	606	<3	1950	1.6	0.6	<1	<0.2	3	<10	<5	31	1.2
L04680	2	5.9	33.4	<3	306	4.7	3.2	<1	0.3	<1	<10	<5	20	2.3
*Dup L04633	8	35.8	5.3	16	2750	3.7	<0.5	<1	<0.2	<1	<10	<5	3	1.8
*Dup L04680	2	5.8	34.1	<3	308	4.7	3.1	<1	<0.2	<1	<10	<5	20	2.3

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 018875 Date: 24/12/97 FINAL

Element.	W	Pb	Bi	SiO2	Al2O3	CaO	MgO	Na2O	K2O	Fe2O3	MnO	TiO2	P2O5	Cr2O3
Method.	ICP70	ICP70	ICP70	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100	XRF100
Det.Lim.	10	2	5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.001	0.01	0.01
Units.	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%
L04633	< 10	7	< 5	12.1	2.66	46.3	1.22	0.25	0.97	1.85	0.02	0.181	0.07	< 0.01
L04637	< 10	< 2	< 5	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04645	< 10	< 2	< 5	6.63	1.19	50.5	0.62	0.11	0.30	0.75	< 0.01	0.077	0.03	< 0.01
L04649	< 10	52	< 5	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04658	< 10	4	< 5	7.58	1.47	49.7	0.58	0.25	0.47	0.97	0.01	0.102	0.04	< 0.01
L04666	< 10	< 2	< 5	15.9	2.97	44.3	1.54	0.35	1.07	1.87	0.02	0.207	0.06	< 0.01
L04669	< 10	< 2	< 5	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04671	< 10	4	< 5	3.66	0.78	50.1	2.84	0.05	0.10	1.25	0.02	0.075	0.02	< 0.01
L04672	< 10	< 2	< 5	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04675	< 10	4	< 5	5.62	1.10	48.3	3.26	0.02	0.46	1.00	0.02	0.077	0.03	0.01
L04677	< 10	3	< 5	5.45	1.15	45.9	5.44	0.03	0.46	1.47	0.03	0.152	< 0.01	< 0.01
L04678	< 10	3	< 5	5.35	1.00	50.5	1.03	< 0.01	0.44	0.62	< 0.01	0.065	0.01	< 0.01
L04680	11	< 2	6	5.75	0.75	29.9	23.0	< 0.01	< 0.01	1.63	0.02	0.072	< 0.01	< 0.01
*Dup L04633	< 10	7	< 5	12.1	2.69	46.1	1.23	0.24	0.98	1.87	0.02	0.179	0.07	< 0.01
*Dup L04680	< 10	< 2	< 5	5.80	0.74	29.8	22.9	< 0.01	< 0.01	1.66	0.02	0.071	< 0.01	< 0.01

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 08875 Date: 24/12/97 FINAL

Element.	LOI	Sum	Rb	Sr	Y	Zr	Nb	Ba
Method.	XRF100	XRF100	XRF7	XRF7	XRF7	XRF7	XRF7	XRF7
Det.Lim.	0.01	0.01	2	2	2	3	2	20
Units.	%	%	ppm	ppm	ppm	ppm	ppm	ppm
L04633	33.7	99.3	12	> 4000	<2	140	2	38
L04637	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04645	39.2	99.4	9	3030	<2	122	3	163
L04649	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04658	38.2	99.4	11	3140	<2	112	2	132
L04666	31.1	99.3	19	2470	4	122	3	126
L04669	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04671	40.7	99.5	5	1150	<2	66	<2	110
L04672	n.a.	n.a	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
L04675	39.9	99.8	13	522	<2	38	<2	45
L04677	38.8	98.9	15	1720	<2	91	3	25
L04678	39.7	98.7	10	2290	<2	96	2	289
L04680	38.7	99.8	7	331	3	21	2	<20
*Dup L04633	33.8	99.3	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
*Dup L04680	38.6	99.7	I.S.	I.S.	I.S.	I.S.	I.S	I.S.

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act. Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use): W9890.00010
Assessment Files Research Imaging

31D16SW2001 2.18356 CAVENDISH 900

...rity of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the ...d to review the assessment work and correspond with the mining land holder. ...ning Recorder, Ministry of Northern Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary) 2.18356

Name	Client Number
Teck Exploration Ltd.	200415
Address	**Telephone Number**
1 First Canadian Place, Suite 7000	(416) 862-7102
Toronto, Ontario, M5X 1G9	Fax Number (416) 365-7747
Name	**Client Number**
Spiral Mountain Resources	
Address	**Telephone Number**
Suite 808, 347 Bay Street	
Toronto, Ontario, M5H 2R7	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☐ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☒ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type	Office Use
diamond drilling, assays, line cutting	Commodity
	Total $ Value of Work Claimed 47,600
Dates Work Performed From 17 Day 11 Month 97 Year To 23 Day 11 Month 97 Year	NTS Reference
Global Positioning System Data (if available)	Township/Area: Cavendish and Glamorgan
	M or G-Plan Number: M-72, M-95
	Mining Division: Southern Ontario
	Resident Geologist District: Tweed

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	Telephone Number
Kerrie Fitzhenry	(705) 474-5500
Address	**Fax Number**
R.R. #5, 19 Legault Street, North Bay, ON, P1B 8Z4	(705) 474-4053
Name	**Telephone Number**
Address	**Fax Number**
Name	**Telephone Number**
Address	**Fax Number**

RECEIVED
MAR 24 1998
GEOSCIENCE ASSESSMENT OFFICE

4. Certification by Recorded Holder or Agent

I, Kerrie Fitzhenry (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date
Kerrie Fitzhenry		March 23, 1998
Agent's Address	**Telephone Number**	**Fax Number**
R.R.#5, 19 Legault St., North Bay, ON, P1B 8Z4	(705) 474-5500	(705) 474-4053

0241 (02/96)

DEEMED JUNE 22/98

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

2.18356

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	1212823	2	0	4,000		
2	1212824	2	0	4,000		
3	1212826	3	0	6,000		
4	1212827	2	0	4,000		
5	1212828	4	0	8,000		
6	1212829	3	0	6,000		
7	1212830	6	29,481	12,000	17,481	~~81~~
8	1191290	3	18,119	3,600	14,519	
9						
10						
11						
12						
13						
14						
15						
		Column Totals	47,600	47,600	32,000	~~81~~

I, Kerrie Fitzhenry (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
Kerrie Fitzhenry	March 23, 1998

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp

RECEIVED
MAR 24 1998
GEOSCIENCE ASSESSMENT OFFICE

Deemed Approved Date	Date Notification Sent
Date Approved	Total Value of Credit Approved
Approved for Recording by Mining Recorder (Signature)	

0241 (02/96)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9890.00010

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.18356

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
diamond drilling	535 m (BQ)	$54.50/m	29,157.50
geology and labour	8 days + 7 days	$175 + $150/day	2,450.00
WR analysis	47 samples	$6/sample	282.00
ICP-MS scan	34 samples	$22/sample	748.00
Zn geochem assays	185 samples	$6/sample	1,110.00
line cutting	2 days	$2100 daily rate	4,200.00
Associated Costs (e.g. supplies, mobilization and demobilization).			
Drill mobilization and demobilization		flat rate	8,000.00
Transportation Costs			
4 wd truck rental (x2) 9 days		$50/day	900.00
Food and Lodging Costs			
Motel		$75/day	525.00
Food		$44/day	308.00
		Total Value of Assessment Work	47,680.50

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, Kerrie Fitzhenry (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as Contract Geologist (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

RECEIVED
MAR 24 1998
10 am
GEOSCIENCE ASSESSMENT OFFICE

Signature	Date
Kerrie Fitzhenry	March 23, 1998

0212 (02/96)

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5881

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

July 31, 1998

TECK EXPLORATION LTD.
1 FIRST CANADIAN PLACE
SUITE 7000
TORONTO, ON
M5X 1G9

Dear Sir or Madam:

Submission Number: 2.18356

Subject: Transaction Number(s):		**Status**
	W9890.00010	Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gatesb2@epo.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 12615
Copy for: Assessment Library

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: July 31, 1998

Submission Number: 2.18356

Transaction Number: W9890.00010

Claim Number	Value Of Work Performed
1212830	27,518.00
1191290	16,912.00
Total: $	44,430.00

Correspondence ID: 12615

Work Report Assessment Results

Submission Number: 2.18356

Date Correspondence Sent: July 31, 1998 **Assessor:** Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9890.00010	1212830	CAVENDISH, GLAMORGAN	Approval After Notice	July 30, 1998

Section:
17 Assays ASSAY
16 Drilling PDRILL

The revisions outlined in the Notice dated June 15, 1998, have been corrected.

Assessment work credit has been approved as outlined on the attached Distribution of Assessment Work Credit sheet.

Correspondence to:

Resident Geologist
Tweed, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Kerrie Fitzhenry
NORTH BAY, ON, CANADA

TECK EXPLORATION LTD.
TORONTO, ON

M-72

Glamorgan Twp. (M-95)

2.18356 DRILL ASSAY

Galway Twp. (M-94)

Anstruther Twp. (M-45)

Harvey Twp. (M-101)

Burleigh Twp. (M-62)

THE TOWNSHIP OF CAVENDISH

COUNTY OF PETERBOROUGH

SOUTHERN ONTARIO MINING DIVISION

SCALE: 1 INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S
LEASE	(L)
LOCATED LAND	Loc
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.
PATENTED FOR S.R.O.	

NOTES

This Map Is Not To Be Used - FOR SURVEY PURPOSES -

400' Surface Rights Reservation along the shores of all lakes and rivers

For status of summer resort locations & islands please contact Ministry of Natural Resources

Original shoreline shown thus

F.R.I. shoreline shown thus

Patents Map shoreline shown thus

Area shown thus : — — — reserved for proposed Provincial Park, withdrawn from staking Sec 34(d) of Mining Act File 160708

Mining claims staked in this Tp subject to Sec. 118 of Mining Act

SAND & GRAVEL

- (S1) Gravel File 154616
- (S2) Gravel " 21547
- (S3) M.N.R. Gravel Pit 76 File 21538
- (S4) Gravel File 40832
- (S5) Gravel " "
- (S6) Gravel " 73125
- (G) QUARRY PERMIT

- (S7) M.N.R. Gravel Pit No. 138 File: 152744
- (S8) Gravel File 104960
- (S9) Gravel File 40832

Areas withdrawn from staking under Section 5 of the Mining Act R.S.O.

Type	File	Date	Disposition
(42) W.67/74	7598V.4	19/12/74	S.R.& M.R.
(R1) W.3/77	34261	7/1/77	S.R.& M.R.
(R2) W.50/83	160708 BEDS OF LAKES AND RIVERS	29/8/83 WITHIN PARK LIMIT	S.R.& M.R.
(R3) W.11/83	73118	30/9/83	S.R.& M.R.
(R4) W.67/74	7598V.4	19/12/74	M.R.O.

DATE OF ISSUE

JUN 03 1991

PROVINCIAL RECORDING OFFICE - SUDBURY

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

PLAN NO. - M-72

ONTARIO

MINISTRY OF NATURAL RESOURCES

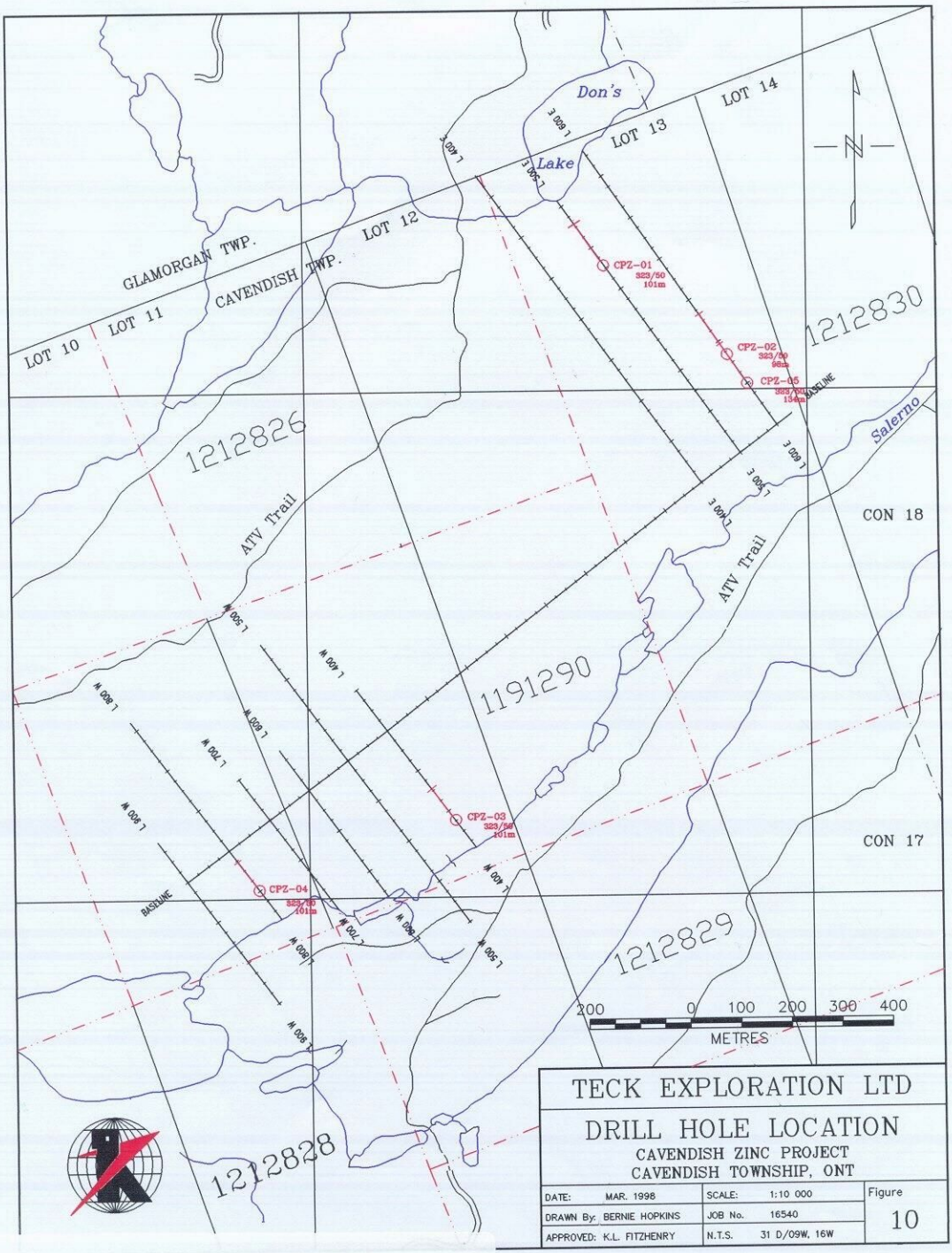
SURVEYS AND MAPPING BRANCH.

31D16SW2001 2.18356 CAVENDISH 200

RES. GEO. TWEED

M.N.R. DIST. MINDEN

2.18356



TECK EXPLORATION LTD

DRILL HOLE LOCATION

CAVENDISH ZINC PROJECT

CAVENDISH TOWNSHIP, ONT

DATE: MAR. 1998	SCALE: 1:10 000	Figure 10
DRAWN By: BERNIE HOPKINS	JOB No. 16540	
APPROVED: K.L. FITZHENRY	N.T.S. 31 D/09W, 16W	