Phantom Group Claims
J and J 2 to 10 Claims

Report On

Prospecting / Geochemical Programs

New Westminister Mining Division

NTS 92H/13E, 92 I/4E
LAT 50 degrees 0' 48" N
LONG 121 degrees 34' 30" W

Owner:

Pacific Talc Ltd.
404 - 815 Hornby Street
Vancouver, B.C.
V6Z 2EZ

Authors:

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January 1997

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Introduction

The J nd J claims were first staked in 1970 and since then more than two million dollars have been expended attempting to develop an economic talc ore body on the property. These efforts have not, as yet, been successful. A small geochemical/prospecting program was conducted between Sept. 19th and Sept. 29th 1997 to determine if the property hosted any precious metals as well as the already established talc mineralization. The geological model of mesothermal precious metals veins was used as rationale for this endevour. No market has been developed for the talc to date, so the property has not been put into production. The focus of this program was to determine if economically interesting precious metals mineralization was associated with the talc mineralization. The Authors were commisioned by Frank Anderson, President of Pacific Talc Ltd., to carry out a mineral exploration program, sufficient to cover annual assessment costs on the J and J 2 - 10, Phantom and Ruby Claims, New Westminister Mining Division.

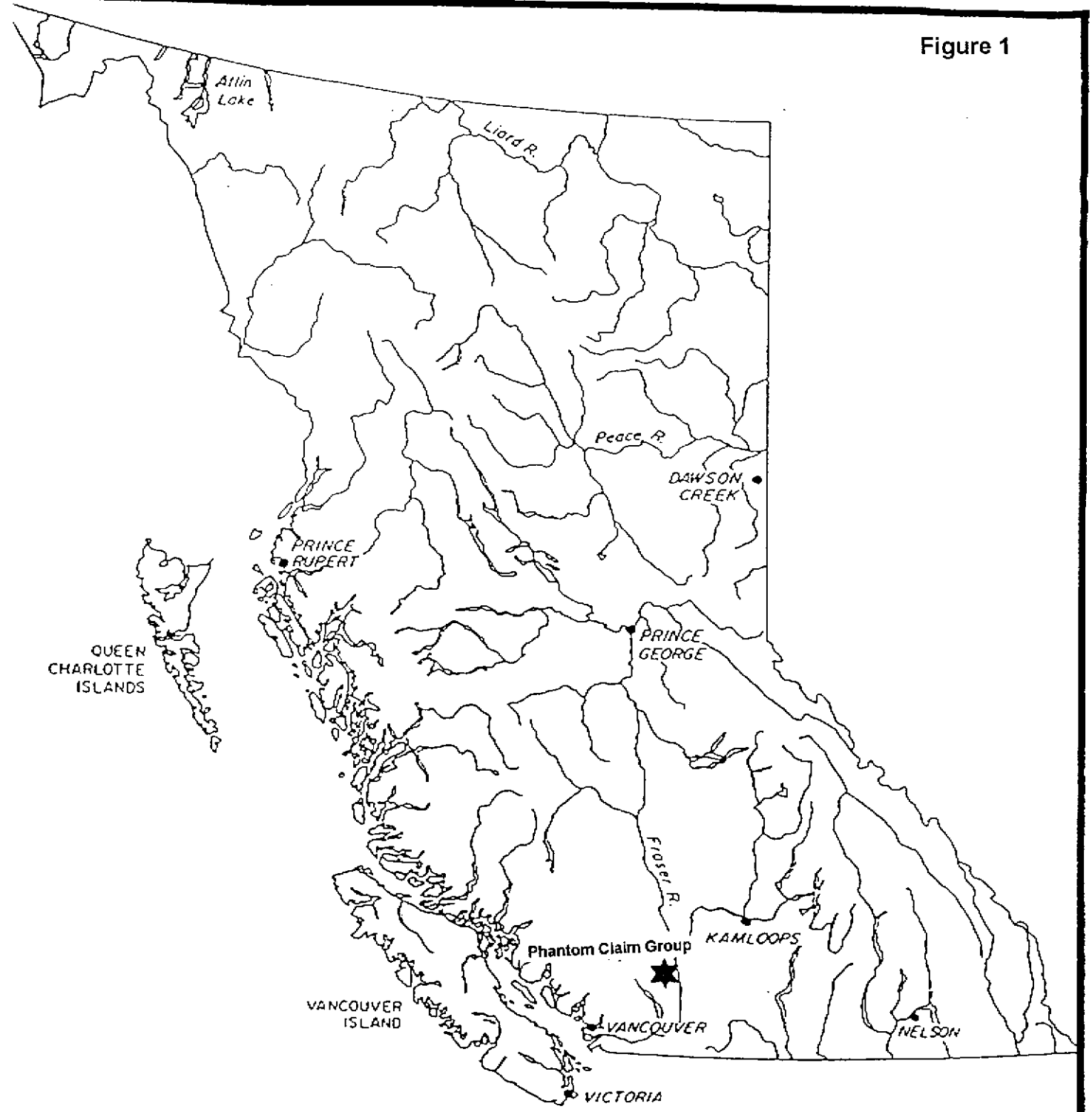
1997 Work Program

A limited program of stream geochemical sampling and prospecting was carried out on the Phantom Group Claims in September and October 1997. The object of this program was to attempt to outline precious metals mineralization on the property. The Phantom Group covers a large body of talc-magnesite-chlorite-dolomite rock. This alteration assemblage is often associated with mesothermal gold-bearing veins. A thepaired pan-concentrate and silt samples were taken from the stream nearest the talc mineralization. Logging roads were prospected for quartz veins and silicified shear zones. Two silicified shear zones were sampled.

Access and Location

Location of the J and J two through 10 and the Ruby and Phantom claims, now grouped under the Phantom name, are situated approxiamately 150 NE of Vancouver, B.C. near the Nahatlach River approxiamately 20 km NW of North Bend, in the New Westminister Mining District. A fractional claim, the Salvaton, is internal to the Phantom Group.(See Fig.3) Access to the property from North Bend is by well maintained gravel road which leads 10.4 km northward to Chamoix siding on the Canadian Pacific Railway and a further 3.3 km to a turn-off leading westward up the south side of the Nahatlach Valley. The left branch affords access to the higher southeastern portion of the claim group, formerly J & J 7,8,9 and 10 claims. The right branch follows the Nahatlach River to the main talc showings approximately

Figure 1



PACIFIC TALC LTD.

General Location Map

Phantom Claim Group

Sorbara Geological Consulting Ltd.

December 1997

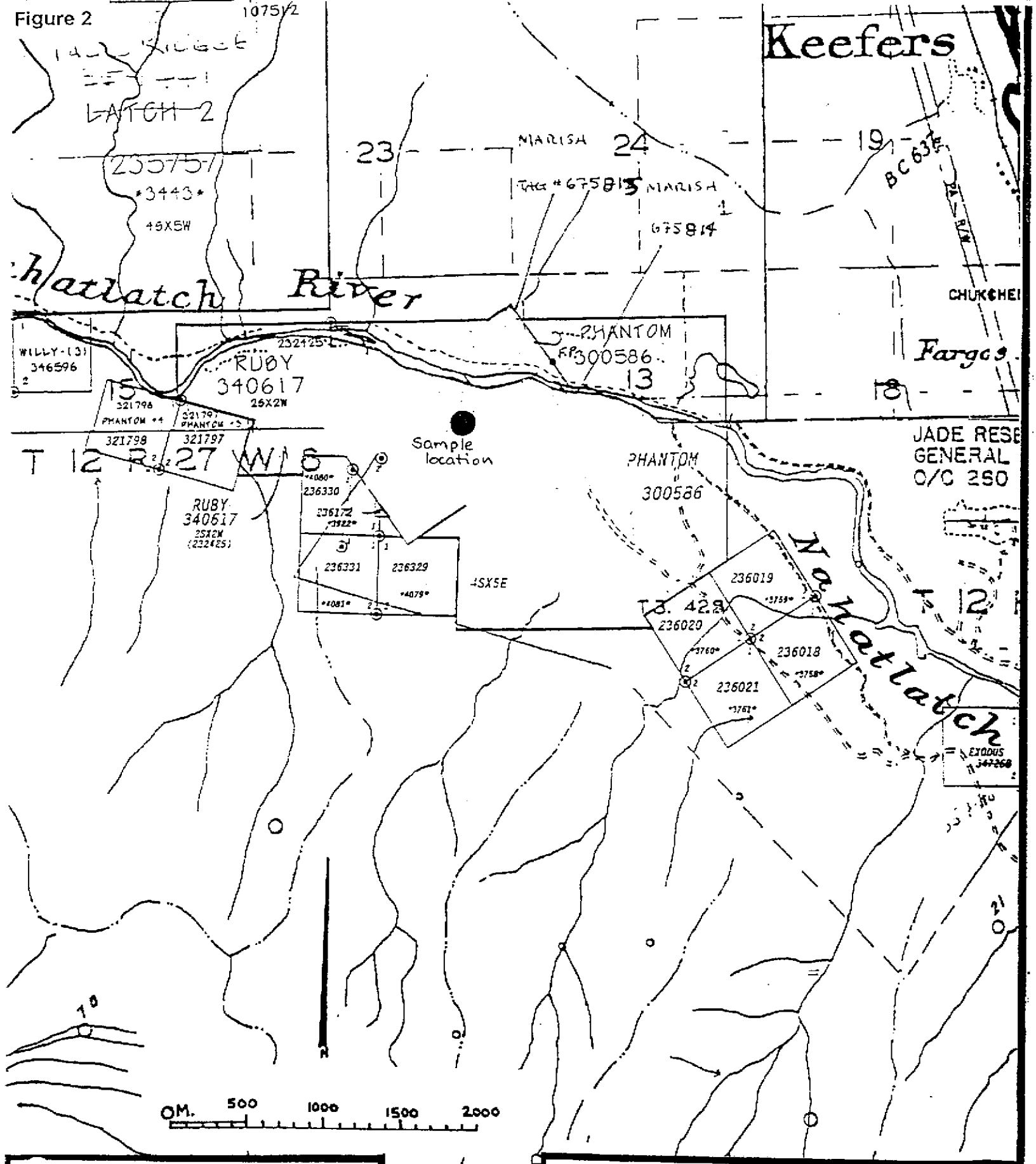
Scale

100 0 100 200 300

(km)

FIGURE 1

Figure 2



Results

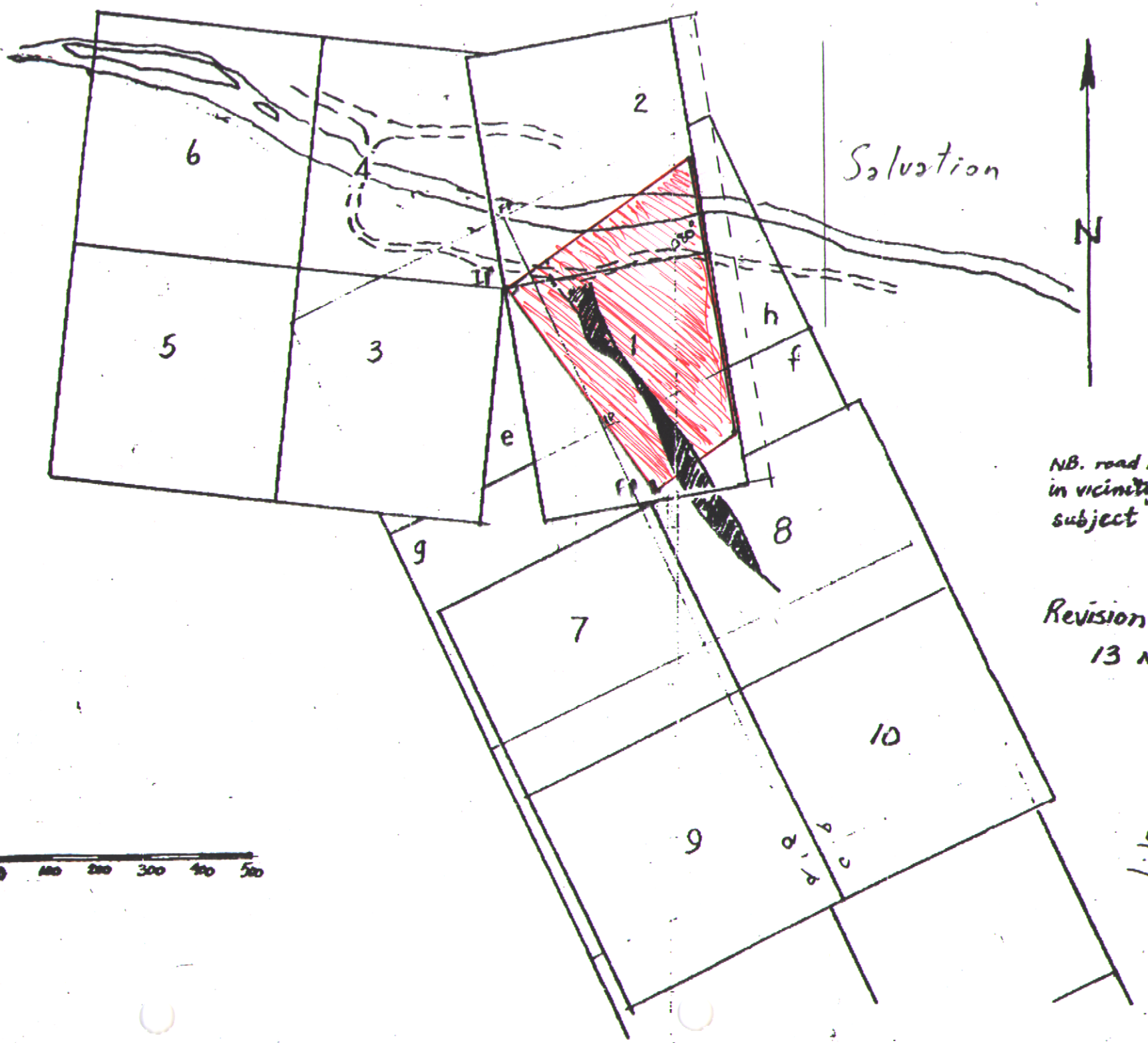
M349705	Rock Chip 50 cm quartz vein < 5 ppb Au < .2 Ag 14 ppm Cu
M349706	Rock Chip 3.5 m chip sample < 5 ppb Au < .2 Ag 67 ppm Cu
M349707	Rock Chip 7.5 m chip sample < 5 ppb Au < .2 Ag 81 ppm Cu
M349708	Silt Sample < 5 ppb Au < .2 Ag 25 ppm Cu
M349709	Pan-Concentrate .002 mg Au

Phantom Claim Group

Scale 1:31 680 **NTS: Claim Maps 92 I 4E 92HI3E**

Sorbara Geological Consulting Ltd.

Fig. #2



Regional Geology

The Boston Bar Lytton area comprise two distinct geological and physiographic provinces, the Intermontane belt to the east, and the Coast Cascade belts to the west, with the boundary delineated by the North Northwest trending Pasayten and Fraser Faults. The Intermontane Belt is a region of relatively low topographical structural relief, with mainly subgreen-schist metamorphic grade rocks exposed across the entire width. By contrast, the Coast and Cascade belts have high topographic and structural relief; a tract of amphibolite grade rocks on the east and west. The boundary between Coast and Cascade belts is placed at the Fraser River, with the Coast belt to the north and west of it and the Cascade belt to the east and south. (Monger 1989)

The talc deposit is a tabular elongate body of sheared talc-magnesite-chlorite-dolomite rock hosted by a medium to dark grey-green phyllite striking roughly 135 degrees with a vertical to subvertical northeastward dip. The talc mineralization appears conformable to the phyllitic host. The talc itself is platy and light to dark greyish green. (Froc 1992)

Property Geology

The region of the Phantom Claim Group is underlain by strongly graphite, schistose chlorite, and quartzose phyllite correlative to Stone sequences of the middle and early Jurassic Ladner Group. A number of discontinuous elongate Jurassic intrusives complising hornblendes diorite, quartz diorite and amphibolite are mapped on the property, the general trend of these mafic intrusives cross the deposite. Granodiorite of the Tertiary Scuzzy Pluton borders the phyllite unit on the southwest and intudes it in several locations. (Froc 1992)

Surficial Geology

The J and J and Phantom/Ruby group of claims is extensively covered by river deposited terrace material. Although soil is thin, the bedrock surface is covered by sands and gravels forming terraces which were laid down by the Nahatlach River, probably as outwash deposites from glaciers during the immediate post-glacial period. They are comprised of medium grained sands with rounded granite boulders to 0.5 m in diameter scattered throughout. The thickness is veriable as would be expected with a deposit laid down on an irregular erosion surface. Near bedrock the amount of country rock fragments increases, these pieces being angular and as a result of present weathering activity. (Perston 1979)

Figure 4

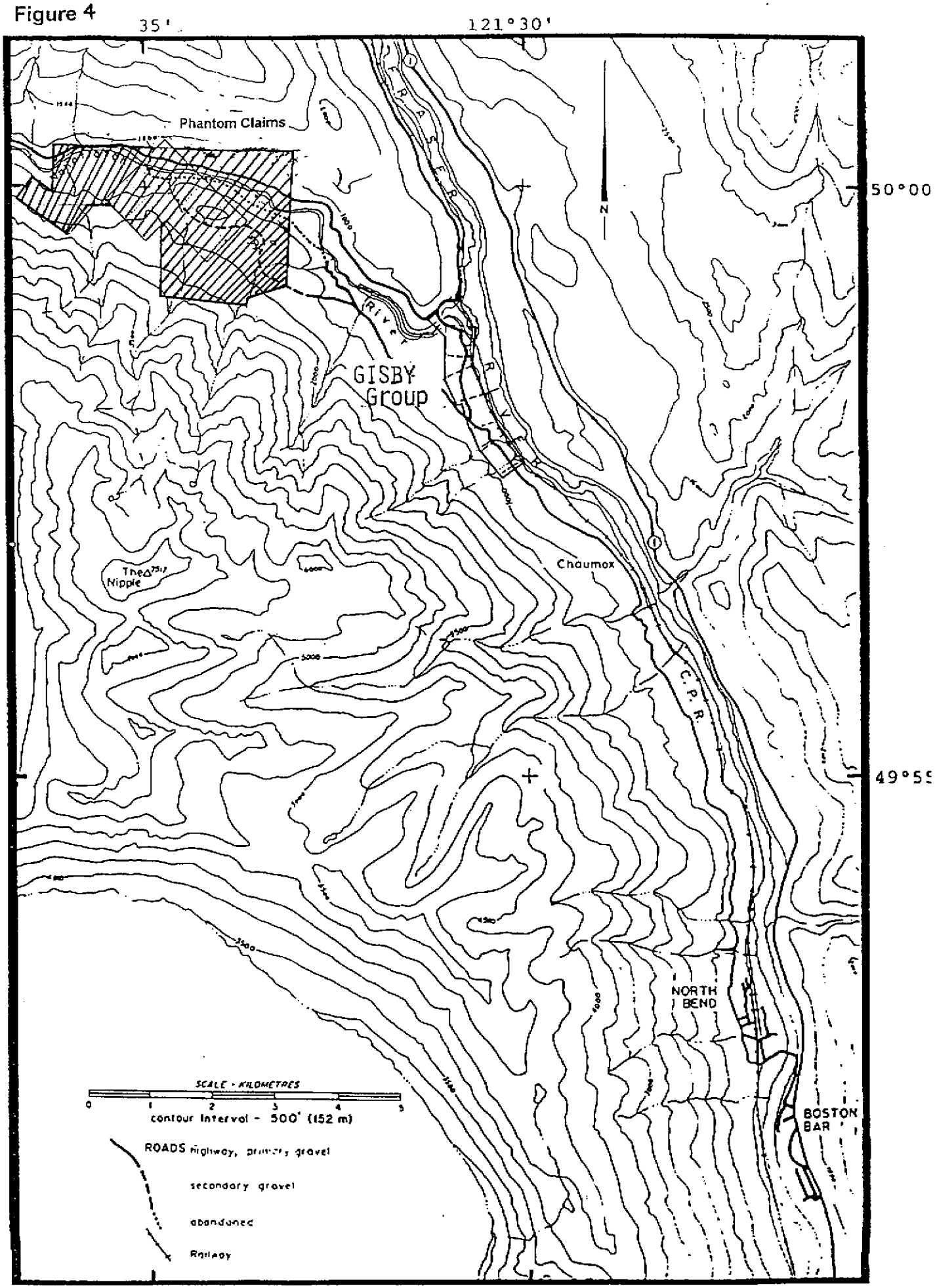


FIGURE 3. North Bend - Nahatlatch River Area

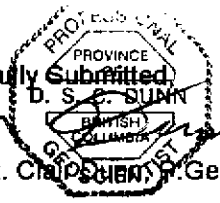
Conclusions

The Phantom group covers a large talc-magesite body, which has recieved a considerable past work for its talc potential. At present there is no market for the talc on the company's property. Talc alteration similar to that on the Phantom Claim Group can be associated with mesothermal precious metals mineralization. This years work did not return any significant precious metals values.

Recommendations

A more extensive geochemical sampling program is needed to make a complete investigation of this potential on the property to host precious metals mineralization.

Respectfully Submitted,



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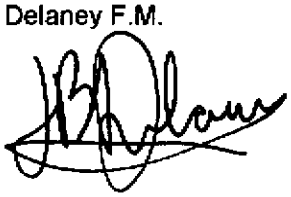

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Sullivan, Joseph (1984) Assessment Report on J and J claims

Appendix A

Appendix A

Chemex Labs Ltd.

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CERTIFICATE OF ANALYSIS A9750103

Phantom Group Samples

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
M349705	205	294	< 5	< 0.2	0.41	8	10	< 0.5	< 2	0.06	< 0.5	5	155	14	0.81	< 10	< 1	0.04	< 10	0.29	115
M349706	205	294	< 5	< 0.2	2.36	8	150	< 0.5	< 2	2.35	< 0.5	21	144	67	3.52	< 10	< 1	0.41	< 10	1.60	870
M349707	205	294	< 5	< 0.2	2.30	8	240	< 0.5	< 2	2.24	< 0.5	21	128	81	3.53	< 10	< 1	0.54	< 10	1.53	985
M349710	205	294	< 5	< 0.2	4.40	72	370	< 0.5	< 2	2.55	< 0.5	20	68	37	4.93	10	< 1	0.82	< 10	2.21	695
M349711	205	294	< 5	< 0.2	2.06	40	110	< 0.5	< 2	2.81	< 0.5	12	65	30	3.08	< 10	< 1	0.43	< 10	1.39	550
M349713	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
M349743	205	294	< 5	< 0.2	2.48	120	60	< 0.5	< 2	0.24	< 0.5	16	103	25	4.32	< 10	< 1	0.13	< 10	1.59	955
M349746	205	294	< 5	< 0.2	0.28	762	40	< 0.5	< 2	2.85	< 0.5	11	67	22	3.29	< 10	< 1	0.12	< 10	0.97	710
M590413	205	294	< 5	< 0.2	2.57	68	50	< 0.5	< 2	0.28	< 0.5	17	108	25	4.92	< 10	< 1	0.14	< 10	1.61	900
M590414	205	294	< 5	< 0.2	2.66	24	90	< 0.5	< 2	0.42	< 0.5	19	86	34	4.24	< 10	< 1	0.20	< 10	1.89	915
M590415	205	294	< 5	< 0.2	1.10	94	290	< 0.5	< 2	0.13	< 0.5	7	105	10	1.94	< 10	< 1	0.55	< 10	0.57	215
M590416	205	294	< 5	0.6	1.06	256	230	< 0.5	< 2	0.29	< 0.5	5	87	10	1.88	< 10	1	0.48	< 10	0.44	240

CERTIFICATION: Ian Bichler

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M349707	205	294	< 1	0.02	39	420	2	< 2	4	36	0.26	< 10	< 10	74	< 10	56
M349710	205	294	< 1	0.17	13	490	< 2	< 2	19	261	0.16	< 10	< 10	175	< 10	68
M349711	205	294	< 1	0.09	12	480	2	< 2	13	143	0.15	< 10	< 10	105	< 10	48
M349713	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
M349743	205	294	< 1	0.01	21	540	4	< 2	5	10	0.07	< 10	< 10	50	< 10	74
M349746	205	294	< 1	0.01	14	470	8	< 2	6	172	< 0.01	< 10	< 10	15	< 10	56
M590413	205	294	< 1	0.01	15	710	6	< 2	7	12	0.14	< 10	< 10	75	< 10	88
M590414	205	294	< 1	< 0.01	18	780	< 2	< 2	6	21	0.18	< 10	< 10	67	< 10	84
M590415	205	294	< 1	0.05	41	340	14	< 2	1	14	0.12	< 10	< 10	32	< 10	78
M590416	205	294	< 1	0.04	5	590	34	< 2	1	33	0.10	< 10	< 10	30	< 10	76

CERTIFICATION: Ian Bradley

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SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
M349708	205	226	< 5	< 0.2	2.03	22	100	< 0.5	< 2	0.48	< 0.5	11	131	25	3.22	< 10	< 1	0.23	< 10	1.03	400
M349713	205	226	< 5	< 0.2	1.91	44	110	< 0.5	< 2	0.69	< 0.5	14	180	19	4.01	< 10	< 1	0.20	10	1.17	485
M349714	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
M349715	205	226	< 5	< 0.2	1.38	118	70	< 0.5	< 2	0.39	< 0.5	9	139	14	2.33	< 10	< 1	0.14	< 10	0.91	410
M349717	205	226	< 5	< 0.2	1.87	62	70	< 0.5	< 2	0.57	< 0.5	15	128	20	4.19	< 10	< 1	0.17	< 10	1.15	520
M349719	205	226	< 5	< 0.2	1.77	40	80	< 0.5	< 2	0.60	< 0.5	16	179	20	4.95	< 10	< 1	0.18	10	1.11	470
M349721	205	226	< 5	< 0.2	1.56	28	70	< 0.5	< 2	0.62	< 0.5	14	138	19	3.54	< 10	< 1	0.16	< 10	0.97	425
M349723	205	226	< 5	< 0.2	1.78	22	80	< 0.5	< 2	0.76	< 0.5	15	229	19	4.46	< 10	< 1	0.20	10	1.04	450
M349725	205	226	< 5	< 0.2	1.83	30	90	< 0.5	< 2	0.78	< 0.5	17	208	22	5.59	< 10	< 1	0.23	10	1.04	500
M349727	205	226	< 5	0.2	2.78	194	70	< 0.5	< 2	0.48	< 0.5	19	158	36	4.53	< 10	< 1	0.17	< 10	2.00	820
M349729	205	226	< 5	< 0.2	1.59	48	70	< 0.5	< 2	0.41	< 0.5	15	253	19	2.95	< 10	< 1	0.16	< 10	1.32	485
M349731	205	226	< 5	< 0.2	1.82	50	70	< 0.5	< 2	0.76	< 0.5	14	214	21	3.46	< 10	< 1	0.16	< 10	1.27	545
M349732	205	226	10	< 0.2	2.41	168	70	< 0.5	< 2	0.57	< 0.5	15	173	21	4.05	< 10	< 1	0.14	< 10	1.89	720
M349734	205	226	< 5	< 0.2	2.62	142	80	< 0.5	< 2	0.60	< 0.5	17	185	24	4.38	< 10	< 1	0.16	< 10	1.97	750
M349736	205	226	< 5	< 0.2	2.26	154	70	< 0.5	< 2	0.58	< 0.5	14	167	22	3.76	< 10	< 1	0.15	< 10	1.66	625
M349738	205	226	< 5	< 0.2	2.00	104	70	< 0.5	< 2	0.56	< 0.5	15	198	21	3.60	< 10	< 1	0.14	< 10	1.55	595
M349740	205	226	< 5	< 0.2	2.15	14	100	< 0.5	< 2	0.71	< 0.5	25	172	37	4.73	< 10	< 1	0.36	10	1.18	605
M349742	205	226	< 5	< 0.2	2.18	12	80	< 0.5	< 2	0.65	< 0.5	18	163	23	3.93	< 10	< 1	0.24	< 10	1.34	600
M349745	205	226	15	< 0.2	2.46	304	80	< 0.5	< 2	0.47	< 0.5	15	149	22	3.87	< 10	< 1	0.15	< 10	1.73	800
M349748	205	226	10	< 0.2	2.28	236	70	< 0.5	< 2	0.49	< 0.5	13	159	22	3.73	< 10	< 1	0.12	< 10	1.59	770
M349750	205	226	10	< 0.2	2.65	232	90	< 0.5	< 2	0.65	< 0.5	16	146	25	4.25	< 10	< 1	0.17	< 10	1.81	775
M590402	205	226	15	< 0.2	2.68	340	70	< 0.5	< 2	0.55	< 0.5	17	171	23	4.51	< 10	< 1	0.15	< 10	1.96	850
M590404	205	226	10	< 0.2	2.41	116	60	< 0.5	< 2	0.51	< 0.5	17	159	30	4.02	< 10	< 1	0.14	< 10	1.82	665
M590406	205	226	10	< 0.2	3.17	192	180	< 0.5	< 2	0.53	< 0.5	28	548	65	4.65	< 10	< 1	0.26	10	3.13	840
M590408	205	226	< 5	< 0.2	1.73	138	70	< 0.5	< 2	0.40	< 0.5	12	154	16	2.85	< 10	< 1	0.14	< 10	1.30	590
M590410	205	226	10	< 0.2	1.51	150	70	< 0.5	< 2	0.33	< 0.5	10	165	16	2.62	< 10	< 1	0.14	< 10	1.03	420
M590412	205	226	10	< 0.2	1.71	166	100	< 0.5	< 2	0.47	< 0.5	11	271	17	2.77	< 10	< 1	0.19	< 10	1.39	530

CERTIFICATION:

Appendix A

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M349714	--	--	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
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M349717	205	226	< 1	0.03	42	780	< 2	< 2	5	28	0.16	< 10	< 10	66	< 10	62
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M349721	205	226	< 1	0.02	41	850	< 2	< 2	4	29	0.13	< 10	< 10	53	< 10	58
M349723	205	226	< 1	0.05	40	860	< 2	< 2	4	36	0.19	< 10	< 10	61	< 10	56
M349725	205	226	1	0.03	46	910	2	< 2	5	42	0.22	< 10	< 10	79	< 10	62
M349727	205	226	< 1	< 0.01	45	660	8	< 2	7	24	0.21	< 10	< 10	75	< 10	78
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M349731	205	226	< 1	0.03	51	730	< 2	< 2	5	33	0.17	< 10	< 10	56	< 10	56
M349732	205	226	< 1	< 0.01	74	650	< 2	2	7	41	0.19	< 10	10	63	< 10	72
M349734	205	226	< 1	< 0.01	71	700	< 2	< 2	7	34	0.20	< 10	< 10	68	< 10	78
M349736	205	226	< 1	0.01	69	680	< 2	2	6	37	0.18	< 10	< 10	58	< 10	70
M349738	205	226	< 1	0.01	70	650	< 2	< 2	5	31	0.16	< 10	< 10	57	< 10	64
M349740	205	226	< 1	0.02	58	1700	< 2	< 2	5	36	0.14	< 10	< 10	59	< 10	96
M349742	205	226	1	0.01	49	1250	< 2	< 2	4	34	0.17	< 10	10	58	< 10	78
M349745	205	226	< 1	0.01	59	670	2	2	6	31	0.15	< 10	< 10	60	< 10	80
M349748	205	226	< 1	0.01	47	630	< 2	< 2	6	27	0.16	< 10	< 10	58	< 10	74
M349750	205	226	< 1	< 0.01	56	720	< 2	2	8	46	0.18	< 10	< 10	68	< 10	84
M590402	205	226	< 1	< 0.01	65	690	< 2	2	8	38	0.18	< 10	< 10	69	< 10	84
M590404	205	226	< 1	< 0.01	68	660	< 2	< 2	6	29	0.21	< 10	< 10	62	< 10	72
M590406	205	226	1	0.02	257	670	6	< 2	10	35	0.11	< 10	< 10	79	< 10	98
M590408	205	226	< 1	0.02	61	450	< 2	< 2	4	21	0.13	< 10	< 10	50	< 10	62
M590410	205	226	< 1	0.02	51	420	2	2	3	17	0.10	< 10	< 10	45	< 10	56
M590412	205	226	< 1	0.05	70	450	2	< 2	4	25	0.13	< 10	< 10	52	< 10	60

CERTIFICATION: [signature]

Appendix A

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: SORBARA GEOLOGICAL CONSULTING LTD.

500 - 789 W. PENDER ST.
VANCOUVER, BC
V6C 1H2

Project : JACK CLAIMS
Comments: ATTN: J.B. DELANEY CC: PAUL SORBARA

Page Number :1
Total Pages :1
Certificate Date: 13-NOV-97
Invoice No. :I9750158
P.O. Number :
Account :NRD

CERTIFICATE OF ANALYSIS A9750158

SAMPLE	PREP CODE		Au FA mg	fusion wt. gm								
Phaedom Group Sample → M349709	235	--	< 0.002	49.47								
M349712	235	--	0.022	10.60								
M349714	235	--	0.002	14.98								
M349716	235	--	< 0.002	16.26								
M349718	235	--	0.016	33.36								
M349720	235	--	< 0.002	22.04								
M349722	235	--	0.046	64.44								
M349724	235	--	0.003	51.85								
M349726	235	--	< 0.002	18.71								
M349728	235	--	0.032	20.07								
M349730	235	--	0.013	10.62								
M349733	235	--	< 0.002	6.78								
M349735	235	--	< 0.002	20.63								
M349737	--	--	NotRcd	NotRcd								
M349739	235	--	< 0.002	17.47								
M349741	235	--	< 0.002	7.02								
M349744	235	--	< 0.002	5.19								
M349747	235	--	0.195	2.93								
M349749	235	--	< 0.002	3.77								
M590401	235	--	0.018	3.31								
M590403	235	--	< 0.002	1.05								
M590405	235	--	< 0.002	1.35								
M590407	235	--	0.005	7.94								
M590409	235	--	< 0.002	3.39								
M590411	235	--	< 0.002	7.86								
SPECIMEN FEEDER	235	--	< 0.002	0.50								

CERTIFICATION: Jonathan Vaak

Appendix B

Appendix B

Sampling Methodology

A. Pan-Concentrate Samples

Approxiamately 1.0 kg of of material was collected from an active stream channel and strained through a .5 cm plastic sieve and was further panned down to heavy mineral concentrates. Another pan was used using the same methods described above to break down very fine clay that was attached to moss on surrounding rocks in the area, this was combined with the two silt pan-concentrates to provide enough material for analysis done at Chemex laboratories in North Vancouver after the field program was completed. At Chemex the entire sample was ground using a ring mill pulverizer with a chrome steel ring set. The Chemex specification for this process is that greater than 90% of the sample will pass through 106 micron (Tyler 150 mesh) screen and the prepared sample was fused with a neutral lead sodium silicate flux. The lead button containing the precious metals is cupelled in a muffle furnace. The gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold.

B. *Silt Samples*

A 0.5 kg sample of Silt was also gathered at the same time as the pan concentrate and put into a standard gusseted kraft bag and shipped to Chemex Labs upon completion of the field program. The sample was passed through a primary crusher to yield a crushed product of which greater than 60% is less than approxiamately 2mm. Then it was further ground so that greater than 90% of the material passed through a 106 micron (Tyler 150 mesh) and subjected to Nitric Aqua Regia Digestion and Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

C. Rock Chip Samples

Approxiamately 2 kg of rock was collected and placed in 6 mm plastic sample bags and shipped to Chemex laboratories in North Vancouver upon completion of field work. The material was crushed and pulverized througha primary crusher to yield a product of which 60% was less than 2mm. It was further ground down using a ring mill pulverizer with a chrome steel ring set. The procedure specification is that greater than 90% of the ground material passes through a 106 micron (Tyler 150 mesh) screen. This was then tested using ICP - AES methods.

Appendix C

Appendix C

STATEMENT OF COSTS

Sorbara Geological Consulting Ltd.
J.J. Work Project
Period of Field Work Sept. 19th / Dec. 4th 1997

Salaries		
D.Dunn, Geologist 1.5 days @ $ 500/day	$ 750.00	
J. Delaney, Prospector 2.5 days @ 250/day	625.00	
M. Abercrombie, Assistant 2.5 days @ 125/day	275.00	$ 1650.00
Project Expenses		
Gas, Food, Lodging, Min-File registry		327.41
Geochemistry and Laboratory Services		
4 x samples @ 21.85 per	$ 87.40	
1 x sample @ 6.00 per	6.00	
GST	6.54	99.94
15 % Management Fees not included in salaries		367.85
Report Preporation, drafting and compilation		375.00
Total Project Cost		$ 2820.25

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
D. J. DUNN
GEOSCIENTIST

Appendix D

Appendix D

Statement Of Qualifications

I, David St. Clair Dunn, with a business address of RR6S24 C8 Gibson's B.C. do hereby certify that:

1. I am a consulting geologist registered with the Geological Association of Canada (Fellow # 4943).

2. I am a member of the Association of Exploration Geochemists.

3. I hold a B. Sc. degree (1980) in geology from the University of British Columbia.

4. I have been practicing my profession as prospector and geologist for 27 years.

5. I personally supervised the work on Pacific Talc Ltd., Phantom claims.

6. I do not hold any interest in the Phantom claims or in Pacific Talc Ltd.

7. I am a professional Geoscientist registered with the Association of professional engineers and geoscientist of B.C.

PROFESSIONAL PROVINCE OF BRITISH COLUMBIA S. C. DUNN GEOSCIENTIST

I, J.B. Delaney of # 227- 2680 W. 4th Ave. do hereby certify that:

1. I have completed the B.C. Yukon Chamber of Mines Prospecting Course in 1994

2. I have completed first year Geology requirements at Capilano College, North Vancouver, British Columbia

3. I have been employed in the Mineral Exploration Industry for the past 5 years, throughout British Columbia and hold a valid F.M.C.

4. I do not hold any interest in the Phantom claims or in Pacific Talc Ltd.

Appendix E

Chemex Labs

Sample Preparation Procedure - Ring Grinding Whole Sample

Method: Grinding Whole Sample

For a small sample (up to 250 grams) which does not require crushing or splitting, the entire sample is ground using a ring mill pulverizer with a chrome steel ring set. The Chemex specification for this process is that greater than 90% of the sample will pass through a 106 micron (Tyler 150 mesh) screen. Grinding with chrome steel may impart trace amounts of chromium and iron into a sample.

Chemex Code	Parameter
268	Assay Grade Ring Grind
209	High Grade Assay Ring Grind
217	Geochemical Ring Grind
235	Pan Concentrate Ring Grind

Appendix E

Chemex Labs

Fire Assay Procedure - Gold

Sample Decomposition: Fire Assay Fusion
Analytical Method: Gravimetric

A prepared sample is fused with a neutral lead sodium silicate flux. The lead button containing the precious metals is cupelled in a muffle furnace. The gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold.

International Units:

Chemex Code	Rush Code	Element	*Sample Weight (assay ton)	Symbol	Detection Limit	Upper Limit
448	n/a	Gold	all	Au	0.002 mg	30 mg

Appendix E

Chemex Labs

Fire Assay Procedure - Trace Gold

Sample Decomposition: Fire Assay Fusion
Analytical Method: Atomic Absorption Spectroscopy (AAS)

A prepared sample is fused with a neutral lead sodium silicate flux inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The lead bead is digested in dilute nitric acid. Hydrochloric acid is then added and the solution is digested for an additional hour. The digested solution is then cooled, diluted to 7.5 ml with demineralized water, mixed and then analyzed by atomic absorption spectrometry.

International Units:

Chemex Code	Rush Code	Element	Sample Weight (grams)	Symbol	Detection Limit	Upper Limit
983	991	Gold	30	Au	5 ppb	10,000 ppb

Appendix E

Chemex Labs

Sample Preparation Procedure - Crushing

Method: Crushing

The entire sample is passed through a primary crusher to yield a crushed product of which greater than 60% is less than approximately 2mm. A split (split size is determined by the final preparation method and analysis requested) is then taken using a stainless steel riffle splitter.

The crushing code indicates the weight of the original sample.

Chemex Code	Rush Code	Parameter	Sample Weight (lb)	Sample Weight (kg)
226	295	0-3 kg Crush and Split	0 - 6	0 - 3
294	272	4-7 kg Crush and Split	7 - 15	4 - 7
276	293	8-12 kg Crush and Split	16 - 25	8 - 12
273	271	13-18 kg Crush and Split	26 - 40	13 -18
270		19-26 kg Crush and Split	41 - 60	19 - 26
278		27-36 kg Crush and Split	61 -79	27 - 36

Appendix E

Chemex Labs

Geochemical Procedure - G32 Package

Sample Decomposition: Nitric Aqua Regia Digestion
Analytical Method: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (1.00 gram) is digested with concentrated nitric acid for at least one hour. After cooling, hydrochloric acid is added to produce aqua regia and the mixture is then digested for an additional hour and a half. The resulting solution is diluted to 25ml with demineralized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. The analytical results are corrected for inter-element spectral interferences.

Chemex Code		Element	Symbol	Detection Limit	Upper Limit
229		ICP-AQ Digestion	n/a	n/a	n/a
2119	*	Aluminum	Al	0.01%	15 %
2141		Antimony	Sb	2 ppm	1 %
2120		Arsenic	As	2 ppm	1 %
2121	*	Barium	Ba	10 ppm	1 %
2122	*	Beryllium	Be	0.5 ppm	0.01 %
2123		Bismuth	Bi	2 ppm	1 %
2125		Cadmium	Cd	0.5 ppm	0.05 %
2124	*	Calcium	Ca	0.01%	15 %
2127	*	Chromium	Cr	1 ppm	1 %
2126		Cobalt	Co	1 ppm	1 %
2128		Copper	Cu	1 ppm	1 %
2130	*	Gallium	Ga	10 ppm	1 %
2150		Iron	Fe	0.01%	15 %
2151	*	Lanthanum	La	10 ppm	1 %
2140		Lead	Pb	2 ppm	1 %
2134	*	Magnesium	Mg	0.01%	15 %
2135		Manganese	Mn	5 ppm	1 %
2131		Mercury	Hg	1 ppm	1 %
2136		Molybdenum	Mo	1 ppm	1 %
2138		Nickel	Ni	1 ppm	1 %
2139		Phosphorus	P	10 ppm	1 %
2132	*	Potassium	K	0.1%	10 %

Chemex Labs

Geochemical Procedure - G32 Package *(con't)*

Chemex Code		Element	Symbol	Detection Limit	Upper Limit
2142	*	Scandium	Sc	1 ppm	1 %
2118		Silver	Ag	0.2 ppm	0.01 %
2137	*	Sodium	Na	0.01%	10 %
2143	*	Strontium	Sr	1 ppm	1 %
2145	*	Thallium	Tl	10 ppm	1 %
2144	*	Titanium	Ti	0.01%	10 %
2148	*	Tungsten	W	10 ppm	1 %
2146		Uranium	U	10 ppm	1 %
2147		Vanadium	V	1 ppm	1 %
2149		Zinc	Zn	2 ppm	1 %

*Elements for which the digestion is possibly incomplete.

Appendix E

Chemex Labs

Geochemical Procedure - G32 Package

Sample Decomposition: Nitric Aqua Regia Digestion
Analytical Method: Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP - AES)

A prepared sample (1.00 gram) is digested with concentrated nitric acid for at least one hour. After cooling, hydrochloric acid is added to produce aqua regia and the mixture is then digested for an additional hour and a half. The resulting solution is diluted to 25ml with demineralized water, mixed and analyzed by inductively coupled plasma-atomic emission spectrometry. The analytical results are corrected for inter-element spectral interferences.

Chemex Code		Element	Symbol	Detection Limit	Upper Limit
229		ICP-AQ Digestion	n/a	n/a	n/a
2119	*	Aluminum	Al	0.01%	15 %
2141		Antimony	Sb	2 ppm	1 %
2120		Arsenic	As	2 ppm	1 %
2121	*	Barium	Ba	10 ppm	1 %
2122	*	Beryllium	Be	0.5 ppm	0.01 %
2123		Bismuth	Bi	2 ppm	1 %
2125		Cadmium	Cd	0.5 ppm	0.05 %
2124	*	Calcium	Ca	0.01%	15 %
2127	*	Chromium	Cr	1 ppm	1 %
2126		Cobalt	Co	1 ppm	1 %
2128		Copper	Cu	1 ppm	1 %
2130	*	Gallium	Ga	10 ppm	1 %
2150		Iron	Fe	0.01%	15 %
2151	*	Lanthanum	La	10 ppm	1 %
2140		Lead	Pb	2 ppm	1 %
2134	*	Magnesium	Mg	0.01%	15 %
2135		Manganese	Mn	5 ppm	1 %
2131		Mercury	Hg	1 ppm	1 %
2136		Molybdenum	Mo	1 ppm	1 %
2138		Nickel	Ni	1 ppm	1 %
2139		Phosphorus	P	10 ppm	1 %
2132	*	Potassium	K	0.1%	10 %

Chemex Labs

Geochemical Procedure - G32 Package *(con't)*

Chemex Code		Element	Symbol	Detection Limit	Upper Limit
2142	*	Scandium	Sc	1 ppm	1 %
2118		Silver	Ag	0.2 ppm	0.01 %
2137	*	Sodium	Na	0.01%	10 %
2143	*	Strontium	Sr	1 ppm	1 %
2145	*	Thallium	Tl	10 ppm	1 %
2144	*	Titanium	Ti	0.01%	10 %
2148	*	Tungsten	W	10 ppm	1 %
2146		Uranium	U	10 ppm	1 %
2147		Vanadium	V	1 ppm	1 %
2149		Zinc	Zn	2 ppm	1 %

*Elements for which the digestion is possibly incomplete.

Appendix F

Appendix F

SAMPLE DESCRIPTION / LOCATION

M349705	Rock Chip 50 cm quartz vein 1480' elevation Gold Dust Creek J and J group
M349706	Rock Chip 3.5 m chip sample 1480' elevation Gold Dust Creek J and J group
M349707	Rock Chip 7.5 m chip sample 10m West of M349706
M349708	Silt Sample 1480' elevation Gold Dust Creek
M349709	Pan-Concentrate 1480' elevation Gold Dust Creek