

MAP NO.: 106D/15  
ASSESSMENT REPORT X  
PROSPECTS CONFIDENTIAL X  
OPEN FILE

DOCUMENT NO: 092967  
MINING DISTRICT: Mayo  
TYPE OF WORK: Geochemistry

REPORT FILED UNDER: YGC Resources Ltd.

DATE PERFORMED: June 1990

DATE FILED: June 13, 1991

LOCATION: LAT.: 64°46'N

AREA: Wind River

LONG.: 134°37'W

VALUE \$: 400.72

CLAIM NAME & NO.: WIND 1-4 YB 03528-YB 03531

WORK DONE BY: R.C. Carne (Archer, Cathro and Associates (1981) Ltd.)

WORK DONE FOR: YGC Resources Ltd.

DATE TO GOOD STANDING:

REMARKS: #106 D -

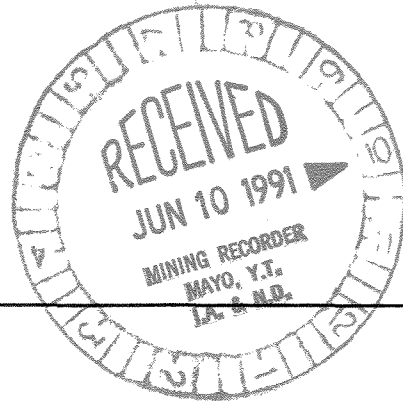
Exploration in 1990 consisted of claim staking and soil sampling. Anomalous values of lead, zinc and silver were encountered including values of lead up to 700 ppm and zinc up to 200 ppm.

# ARCHER, CATHRO

& ASSOCIATES (1981) LIMITED

CONSULTING GEOLOGICAL ENGINEERS

1016-510 WEST HASTINGS STREET  
VANCOUVER, B. C. V6B 1L8



(604) 688-2568

092967

## SUMMARY REPORT

ON

1990 EXPLORATION

WIND CLAIMS

MAYO MINING DISTRICT

Wind 1-4 Claims (YB03528 to YB03531)

Latitude 64°46'N; Longitude 134°37'W

NTS 106D/15



for

YGC RESOURCES LTD.

092967

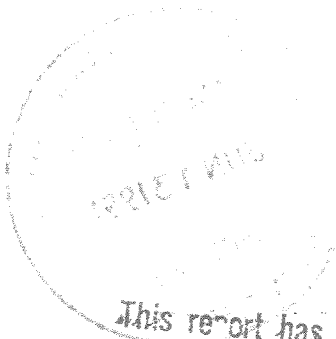
*Indexed Aug 27/91*

R.C. Carne, M.Sc.

May, 1991

Work Performed on September 17, 1990

TORONTO



This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 400.72.

*W. H. Payne*  
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

TORONTO

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INTRODUCTION

The Wind property was staked in June, 1990 by YGC Resources Ltd. The claims were acquired to cover a previously discovered cupriferous massive siderite body thought to be a sedimentary exhalative (sedex) deposit.

The 1990 field program described in this report was funded by YGC and consisted of prospecting on June 3, the day the claims were staked. Analyses of specimens of mineralization collected on June 3 were carried out on September 17. Only the analytical and report preparation costs are applied for assessment credit with this report.

Appendix I includes the Author's Statement of Qualifications.

PROPERTY, LOCATION AND ACCESS

The Wind property lies along the east bank of the Wind River in north-central Yukon, 108 km north-northeast of Elsa, the closest community. The Wind River Trail, a winter road constructed in the late 1950's, crosses the west end of the claims. A 550 m, all-weather airstrip is located on the property. Access for the 1990 work was by helicopter from an Archer, Cathro case camp located 15 km northeast of Elsa.

The Wind property consists of four claims registered with the Mayo Mining Recorder in the name of Archer, Cathro as follows:

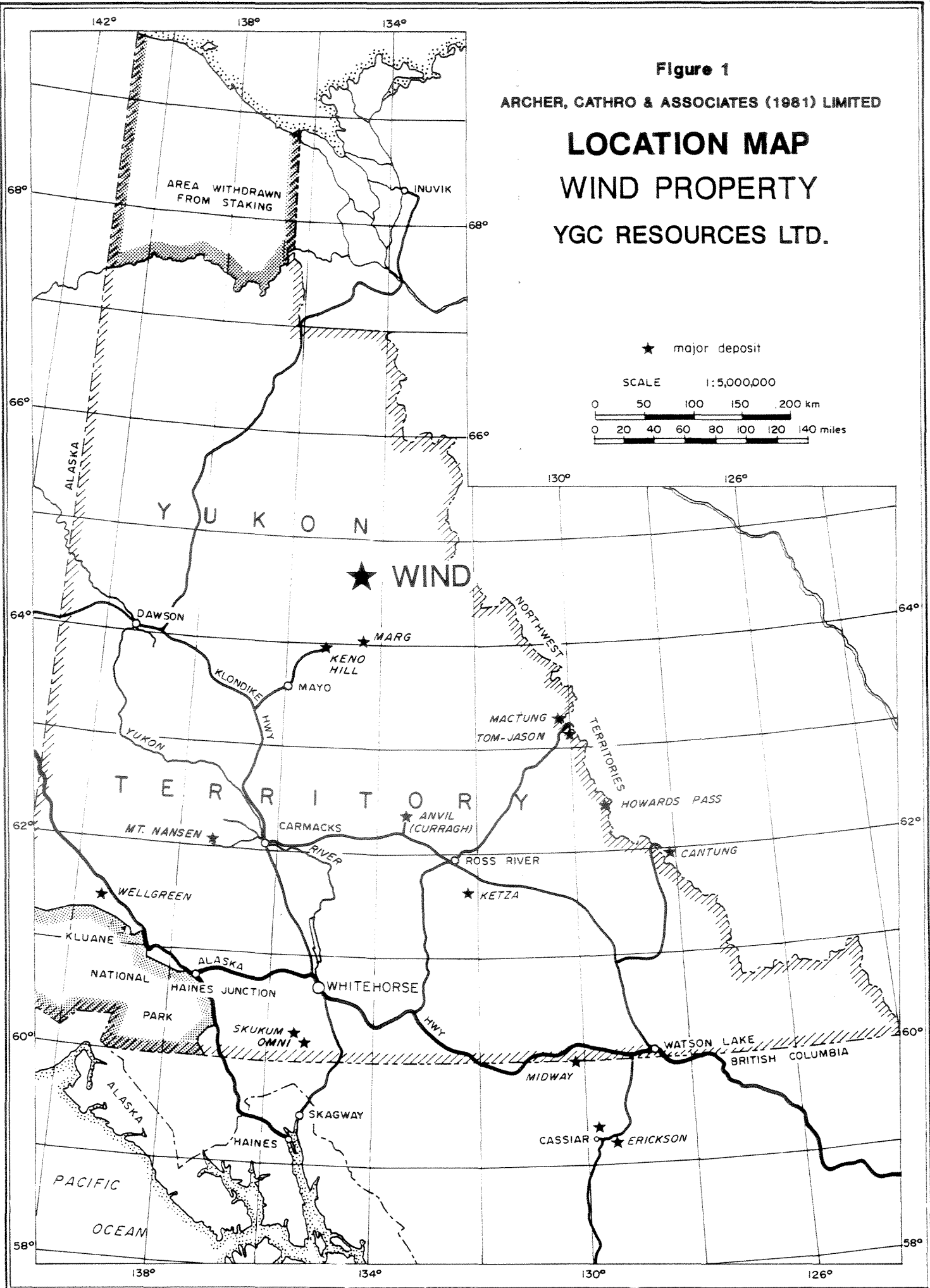
<u>Claim Name</u>	<u>Grant Numbers</u>	<u>Expiry Date</u>
Wind 1-4	YB03528-YB03531	March 15, 1992

Claim locations are shown on Figure 2 in the pocket.

Figure 1

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

# LOCATION MAP WIND PROPERTY YGC RESOURCES LTD.



### HISTORY AND PREVIOUS WORK

The showing was originally staked as the Brown Bear claims in 1931 by J. McCluskey. Restaking was carried out in 1958 (Mat claims) and 1961 (Fly claims) by F. Ahearne who optioned the property late in 1961 to Yukon Consolidated Gold Corp. The ground was again restaked by J. Hanna (Tara, etc. claims) in 1962 and by F. Ahearne (Joe claims) in 1967. The Joe group was optioned to General Enterprises Limited, which built an airstrip and carried out bulldozer trenching and geophysical surveys in 1968 and 1969 before transferring the claims to Wind River Mining Limited which drilled ten holes totalling 445 m later in that year. The property was allowed to lapse and was again relocated in 1975 by Adar Resources Limited which conducted geological mapping and a geophysical survey. B.R. Resources restaked the property in June 1976 and drilled two holes totalling 107 m later in the same year.

### GEOMORPHOLOGY

The property occupies a resistant hill in the Wind River valley at the confluence of the Wind River and a major westerly-flowing tributary. The area of interest lies below treeline but vegetation cover is sparse, consisting of scattered black spruce and buckbrush (arctic black birch and willow). The mineralized zone is covered by a thin, discontinuous mantle of glacial till. The west end of the mineralized zone terminates under bench gravels along the Wind River while the east end disappears under locally-derived talus.

GEOLOGY AND MINERALIZATION

The Wind property is underlain by the lower member of the Lower Helikian Quartet Group. This is a 200 to 450 m thick sequence of thin-bedded, carbonaceous and, in part, pyritic siltstones and shales with localized chert-dolomite horizons and pillowed basaltic flows.

The mineralized zone is described in old reports as a bedding-parallel shear zone replaced by siderite with disseminations and lenses of massive pyrite-chalcopyrite. Subsidiary zones of vein or stringer chalcopyrite occur in the stratigraphic/structural footwall. Because of the poor quality of bedrock and trench exposures, only rudimentary geological mapping was carried out during the brief examination of the property in 1990.

Descriptions of the Wind zone are remarkably similar to the Gremlin Cu-Co-Ag-Au sedex deposit which occurs within correlative rocks 40 km to the north. The Gremlin deposit consists of a sheet-like siderite body which contains disseminations, lenses and beds of chalcopyrite, pyrite and minor cobaltite with traces of galena and sphalerite. This is underlain in one area by a chalcopyrite-bearing silicified stockwork zone considered to be a hydrothermal vent area. Highest Cu-Co-Au-Ag grades occur in proximity to the stockwork zone while lead and zinc values increase from trace levels to 1200 and 670 ppm, respectively, in thinner, distal mineralization. The Gremlin and Wind deposits are considered to be an example of a group of Precambrian copper-rich sedex deposits which includes the Mount Isa Mine in Australia and the New World deposit in Montana.

A summary of diamond drill intersections is given on the following page.

Hole	Section (m x 100)	Intersection*		Comments
		Siderite Zone (m)	Grade/Width(m)	
70-01	1+52W	3.0	not assayed	leached
70-02	1+52W	2.9	2.02% Cu/0.9	
70-03	1+83W	5.7	2.18% Cu/1.8	
			1.43% Cu/0.6	footwall vein
70-04	1+83W	2.3	3.09% Cu/1.5	
			3.18% Cu/0.9	footwall vein
70-05	1+83W	abandoned	short of zone	
70-06	3+05W	3.0	2.45% Cu/0.6	
70-07	3+05W	2.3	1.69% Cu/1.0	
70-08	5+18W	6.1	1.72% Cu/2.8	
			1.75% Cu/1.0	footwall vein
70-09	5+18W	3.7	1.78% Cu/3.1	
70-10	5+49W	5.4	2.61% Cu/1.3	
76-01	6+32W	9.1	1.03% Cu/3.3	
76-02	6+52W	4.3	0.64% Cu/2.1	

\*Widths of the siderite zone and mineralization are calculated true widths.

A summary of analyses of samples taken from the zone in 1990 is given below.

Complete analyses are given in Appendix II.

Sample Number	Cu (%)	Pb (%)	Zn (%)	Co (ppm)	Au (g/t)	Ag (g/t)	Description
T21878	0.16	Tr	Tr	9	N/A	<0.2	siderite grab
T21879	0.19	Tr	Tr	<1	<0.07	<0.2	1.8 m chip
T21880	16.00	Tr	0.05	120	0.34	48.8	chalcopyrite grab
T21881	17.60	0.02	0.05	49	0.07	30.0	chalcopyrite grab
T21882	26.00	0.39	0.09	80	0.21	30.2	chalcopyrite grab
T21883	20.50	0.41	0.06	8	0.14	28.6	0.1 m chip
T21884	14.30	0.09	0.15	215	0.07	39.8	chalcopyrite grab
T21885	5.26	0.18	0.05	32	0.07	14.8	chalcopyrite grab
T21886	27.00	0.09	0.12	20	0.14	73.4	1.5 m chip
T21887	9.44	Tr	0.03	56	0.07	17.6	siderite-rich grab
T21888	7.40	0.10	0.03	139	0.07	11.6	chalcopyrite-quartz
T21889	12.20	0.03	0.04	77	<0.07	25.2	chalcopyrite-quartz

Tr = <100 ppm

Highest copper grades in drill holes occur in the south half of the zone.

In addition, the highest ratios of silver, gold and cobalt to copper occur in this part of the deposit.

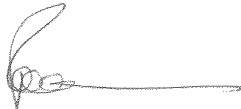
SUMMARY AND RECOMMENDATIONS

The Wind claims host a steeply-dipping Helikian-age cupriferous sedex deposit which has been defined for a 600 m strike length by trenching and diamond drilling. Grades up to 3.09% Cu over a true width of 1.5 m have been intersected by drilling. Better grades of copper, gold, silver and cobalt are present in the south half of the deposit. This part of the zone is thinner but carries a higher proportion of sulphide to siderite gangue than the lower grade north half. This relationship, in conjunction with the apparent metal zonation, probably reflects primary mineralogical variation within the deposit. The downdip and strike extensions of the south part of the zone are the most promising areas for the discovery of higher grade, massive sulphide vent-proximal mineralization.

Grid soil geochemistry sampling and geological mapping should be carried out in conjunction with VLF-EM and magnetic geophysical surveys to select follow-up drill targets.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



R.C. Carne, M.Sc.

/mc

APPENDIX I  
AUTHOR'S STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Burnaby, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1974 with a B.Sc. and in 1979 with an M.Sc. majoring in Geological Sciences.
2. I am a member of the Geological Association of Canada.
3. From 1974 to present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981 became a partner of Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.



Robert C. Carne, B.Sc., M.Sc.

APPENDIX II  
ANALYTICAL CERTIFICATES



# Chemex Labs Ltd.

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

ARCHER CATHRO & ASSOC. (1981) LTD.

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Y1A 3S9

Page No.: 1-A  
Total Pages: 1  
Invoice Date: 17-SEP-90  
Invoice No.: I-9022464  
P.O. Number: NONE

Project: YGC (WIND)  
Comments:

## CERTIFICATE OF ANALYSIS A9022464

SAMPLE DESCRIPTION	PREP CODE	Au oz/T	Cu %	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 %
T21879	208 294	< 0.002	0.19	< 0.2	0.65	15	10	< 0.5	< 20	0.13	< 0.5	< 1	27	1860	>15.00	< 10	< 1	0.03	< 10	3.47
T21880	208 294	0.010	16.00	48.8	0.21	210	< 10	< 0.5	560	0.02	< 0.5	120	5	>10000	>15.00	< 10	< 1	< 0.01	< 10	0.35
T21881	208 294	0.002	17.60	30.0	0.22	20	< 10	< 0.5	1700	0.04	< 0.5	49	22	>10000	>15.00	< 10	< 1	< 0.01	< 10	0.22
T21882	208 294	0.006	26.0	30.2	0.16	130	< 10	< 0.5	120	0.22	< 0.5	80	13	>10000	>15.00	< 10	< 1	< 0.01	< 10	0.08
T21883	208 294	0.004	20.5	28.6	0.19	35	< 10	< 0.5	720	0.06	< 0.5	8	12	>10000	>15.00	< 10	< 1	< 0.01	< 10	0.95
T21884	208 294	0.002	14.30	39.8	0.21	645	< 10	< 0.5	460	0.04	< 0.5	215	49	>10000	>15.00	< 10	< 1	< 0.01	< 10	0.48
T21885	208 294	0.002	5.26	14.8	0.45	310	20	< 0.5	140	0.05	< 0.5	32	10	>10000	>15.00	< 10	< 1	0.03	< 10	0.25
T21886	208 294	0.004	27.0	73.4	0.16	85	< 10	< 0.5	980	0.04	< 0.5	20	22	>10000	>15.00	< 10	< 1	< 0.01	< 10	0.05
T21887	208 294	0.002	9.44	17.6	0.21	150	< 10	< 0.5	280	0.06	< 0.5	56	40	>10000	>15.00	< 10	< 1	< 0.01	< 10	1.41
T21888	208 294	0.002	7.40	11.6	0.15	325	< 10	< 0.5	180	0.04	< 0.5	139	173	>10000	>15.00	< 10	< 1	< 0.01	< 10	1.24
T21889	208 294	< 0.002	12.20	25.2	0.20	145	< 10	< 0.5	360	0.03	< 0.5	77	35	>10000	>15.00	< 10	< 1	< 0.01	< 10	0.15

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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Comments:

## CERTIFICATE OF ANALYSIS

### A9022464

SAMPLE DESCRIPTION	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
T21879	208	294	>10000	< 1	0.02	29	40	< 2	5	2	4	< 0.01	< 10	< 10	< 1	100	56
T21880	208	294	7200	2	0.01	334	1880	16	30	8	2	< 0.01	< 10	< 10	< 1	400	536
T21881	208	294	6290	< 1	0.01	247	2170	160	10	8	2	< 0.01	< 10	< 10	< 1	450	548
T21882	208	294	1890	< 1	0.02	172	3600	3910	35	6	6	< 0.01	< 10	< 10	< 1	650	856
T21883	208	294	5170	1	0.01	17	2760	4090	25	7	2	< 0.01	< 10	< 10	< 1	550	642
T21884	208	294	8600	< 1	0.01	108	1840	856	10	5	4	< 0.01	< 10	< 10	< 1	350	1475
T21885	208	294	>10000	6	0.01	85	1160	1755	25	6	9	< 0.01	< 10	< 10	< 1	100	464
T21886	208	294	1815	< 1	0.01	23	4090	934	10	6	1	< 0.01	< 10	< 10	< 1	650	1190
T21887	208	294	>10000	< 1	0.01	88	930	28	10	3	3	< 0.01	< 10	< 10	< 1	200	318
T21888	208	294	9080	< 1	0.01	77	690	1020	5	5	4	< 0.01	< 10	< 10	< 1	100	310
T21889	208	294	6900	< 1	0.01	138	1300	276	10	7	2	< 0.01	< 10	< 10	< 1	300	394

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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Comments:

## CERTIFICATE OF ANALYSIS A9022463

SAMPLE DESCRIPTION	PREP CODE		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo
			ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm
T21878	205	294	< 0.2	0.20	80	10	< 0.5	< 2	0.12	< 0.5	9	13	1645	>15.00	< 10	< 1	< 0.01	< 10	4.83	>10000	3

CERTIFICATION: *B. Coughlin*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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PHONE: 604-984-0221

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Project : YGC (WIND)  
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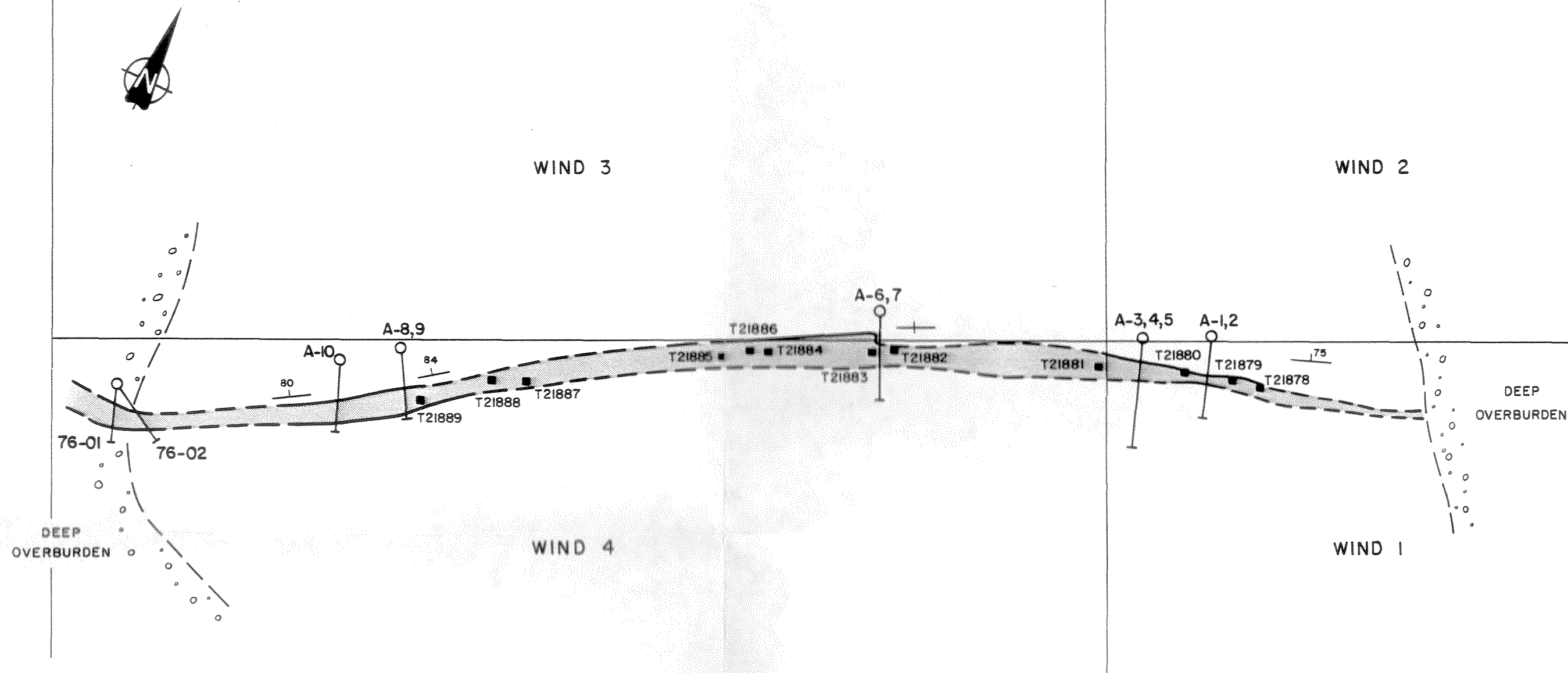
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Invoice No. : I-9022463  
P.O. Number : NONE

## CERTIFICATE OF ANALYSIS

A9022463

SAMPLE DESCRIPTION	PREP CODE		Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
T21878	205	294	0.02	13	10	< 2	5	2	7	< 0.01	< 10	< 10	< 1	50	46

CERTIFICATION: *B. Coughlin*



**LEGEND**




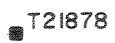
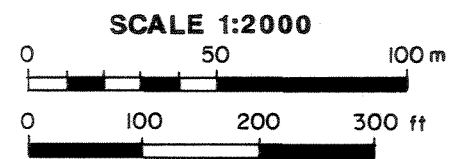
-  copper-bearing siderite zone (defined, approximate)
-  diamond drill hole
-  attitude of siderite zone (determined from drilling)
-  1990 rock sample location

Figure 2  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**COMPILATION MAP**

WIND PROPERTY  
 YGC RESOURCES LTD.



092067