

094370

Monster Copper Resources Inc

**2001 GEOLOGICAL RECONNAISSANCE AND
ROCK GEOCHEMICAL SAMPLING PROGRAM
ON THE SCARY PROPERTY,
SCARY 8 and 10-20 Claims**

Located in the Ogilvie Mountains
Dawson Mining District,
NTS 116B/14
64°52' North Latitude
139°25' West Longitude

-prepared for-
MONSTER COPPER RESOURCES INC.
25th Floor, 1100 René Lévesque Blvd. West
Montréal, QC, Canada
H3B 5C9

-prepared by-
Tom Setterfield, PhD, P.Geo.
MONSTER COPPER RESOURCES INC.
21 Tripp Crescent
Ottawa, ON, Canada
K2J 1C5

Date worked: August 12, 2001

2001 EXPLORATION PROGRAM ON THE SCARY PROPERTY

TABLE OF CONTENTS

		<u>Page</u>
	Table of Contents	i
	SUMMARY	ii
1	INTRODUCTION	1
2	LIST OF CLAIMS	1
3	LOCATION, ACCESS AND GEOGRAPHY	1
4	PROPERTY EXPLORATION HISTORY	5
5	2001 EXPLORATION PROGRAM	7
6	REGIONAL GEOLOGY	7
7	PROPERTY GEOLOGY	8
8	ROCK SAMPLING RESULTS	10
9	DISCUSSION AND CONCLUSIONS	10
10	REFERENCES	13

APPENDICES

APPENDIX A	List of Field Personnel
APPENDIX B	Statement of Expenditures
APPENDIX C	Certificates of Analysis
APPENDIX D	Geoscientists' Certificates

LIST OF TABLES

1	List of Claims	1
2	Selected Chemical Results	11
3	Rock Sample Descriptions	12

LIST OF FIGURES

1	Project Area Location Map	2
2	Location of Middle Proterozoic assemblages and occurrences of the Wernecke Breccia, Yukon Territory	3
3	Scary Claims Location Map	4
4	Location of belts of Wernecke Breccia	6
5	Geology, Sample Locations, Scary Property	9

YUKON ENERGY, MINES
& RESOURCES LIBRARY
PO Box 2703
Whitehorse, Yukon Y1A 2C8



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 \$ 42,900.

M. B. L.
for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.



SUMMARY

In 2001, Monster Copper Resources Inc. acquired 100% interest in the 273 claim Monster/Cookie Property and the 12 claim Scary Property in the Ogilvie Mountains area of the Yukon Territory from Blackstone Ventures Inc. The properties occur along two long, linear, structurally controlled belts of intrusive, iron oxide-rich hydrothermal breccia, each with anomalous to ore grade occurrences of Cu, Co, Au and Ag. Associated alteration includes carbonatization, hematization and albitization. The breccia belts are correlative with the more widely known hydrothermal intrusive breccias in the Wernecke Mountains, 250 km to the east. These latter breccias have been explored to the tune of \$US 5.5 million by Newmont and associates. By contrast, the breccia belts (collectively known as the Wernecke Breccia) in the Ogilvie Mountains have received very little attention.

Since 1993, Blackstone Ventures Inc has controlled and intermittently explored the ground along the Ogilvie Mountains breccia belts which is considered to be most prospective. Grab samples from these claims contain up to 44.8% Cu, 1.04 g/t Au, 2.8% Co and 176 ppm Ag (different samples). None of the showings have been drilled, and neither gravity nor IP had previously been employed. Monster Copper spent 13 days in the field on its properties, conducting geological reconnaissance/due diligence and performing a gravity survey over part of the Monster/Cookie Property, and conducting geological reconnaissance and minor rock sampling during a one day visit to the Scary property. This report documents the results of exploration on the Scary Property; a separate report covers the program on the Monster/Cookie property. Expenses attributable to the Scary Property total \$6,697.78.

The presence of breccia-related mineral occurrences with anomalous to ore grade copper, cobalt and gold was confirmed during this exploration program. Monster Copper's samples produced results of up to 0.8% Cu, with elevated Co and weakly anomalous Au. Levels of barium, a pathfinder element in IOCG exploration, were consistently high. These geological and geochemical results are considered encouraging. The next stage of exploration on this property should involve a reconnaissance gravity survey; this should be undertaken as soon as funds are available.

1.0 INTRODUCTION

The Monster Project is located in the southern Ogilvie Mountains, approximately 85 km north of Dawson City in the Yukon Territory (Fig. 1). The project consists of two properties, Monster/Cookie and Scary. The properties were staked in 1993 and 1994 (small portion in 1998) to cover numerous hematite-rich breccias and associated Cu-Co-Au geochemical anomalies. The breccias belong to the Wernecke Breccia, which is the name given to a widespread group of Middle Proterozoic, intrusive, hydrothermal breccias best documented in the Wernecke Mountains 250 km east of the Monster Project (Fig. 2). The Wernecke Breccia has been extensively explored in the Wernecke Mountains for IOCG (Iron Oxide Copper-Gold, also known as Olympic Dam-type) mineralization, but exploration for this deposit type in the Ogilvie Mountains has been more restricted. The Monster/Cookie and Scary properties were purchased by Monster Copper Resources Inc. (Monster Copper) from Blackstone Ventures Inc. (Blackstone); Blackstone has intermittently explored the properties since 1993. The objective of the 2001 exploration program on the properties was to gain confidence that the geological environment was prospective for IOCG deposits, to examine the known showings, and to commence initial geophysical work (on the Monster/Cookie property) that would help to define one or more drill targets. This report documents work completed on the Scary property; a separate report covers exploration on the Monster/Cookie property. Exploration on the Scary property consisted of geological reconnaissance and minor rock sampling.

2.0 LIST OF CLAIMS

The Scary property comprises 12 contiguous quartz mineral claims, located in the Dawson Mining District (Table 1; Figs. 1 and 3). Government records indicate that all claims are 100% owned by Monster Copper Resources Inc. of Montreal, QC.

Table 1: CLAIM DATA

Claim Name	Grant Number	No. of Claims	Expiry Date*	Owner
Scary 8	YB52494	1	Dec. 31, 2006	Monster Copper Resources Inc
Scary 10-20	YB52496-52506	11	Dec. 31, 2006	Monster Copper Resources Inc
		12		

* The expiry dates for the Scary Claims are subject to approval of assessment work covered by this report.

3.0 LOCATION, ACCESS AND GEOGRAPHY

The Scary Property is located in the southern Ogilvie Mountains, approximately 90 km north of Dawson City. The approximate center of the claims is latitude 64° 52' North and longitude 139° 25' West. The property is located approximately 50 km west of the Dempster Highway (Fig. 1), and may be accessed by

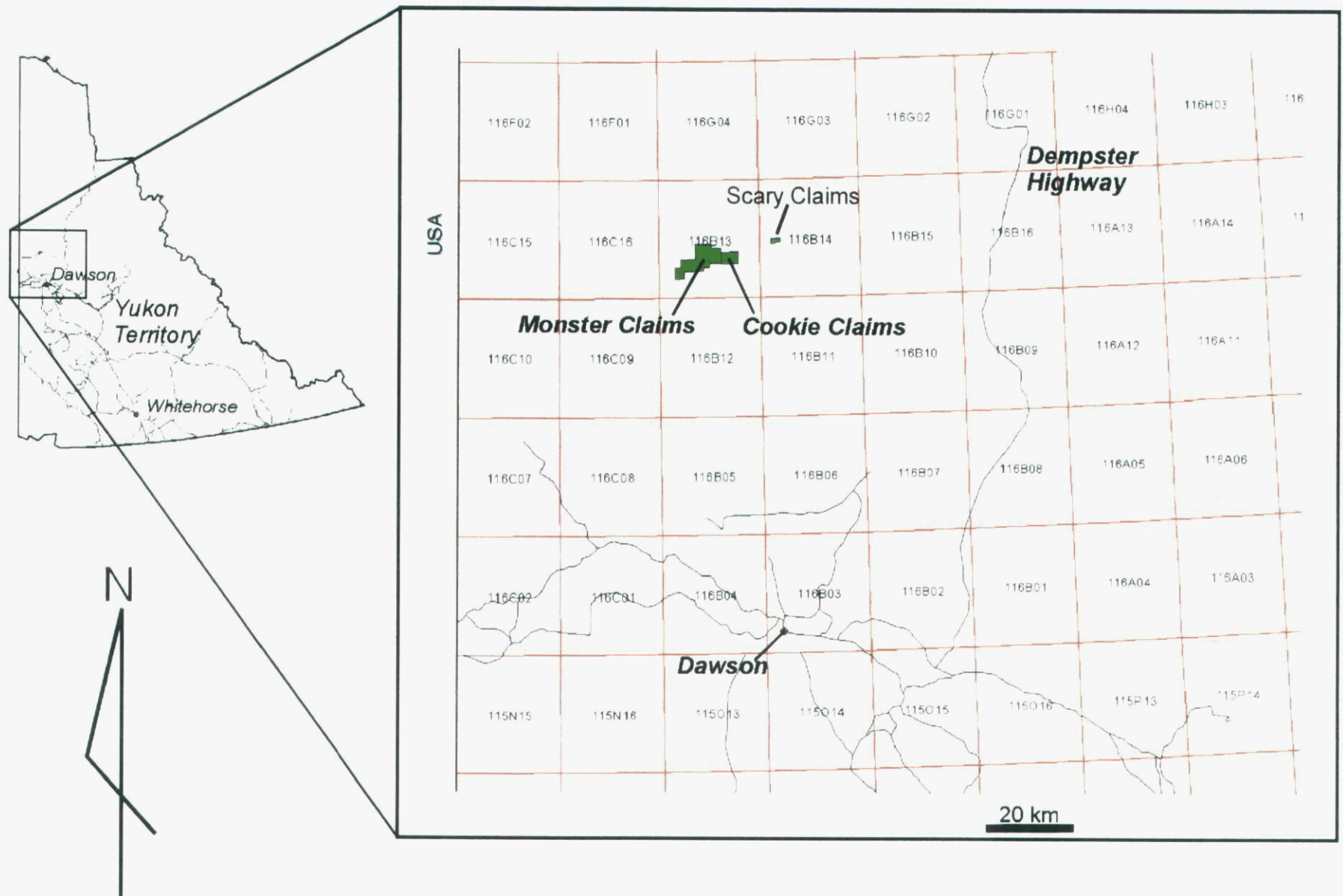


Figure 1: Project Area Location Map

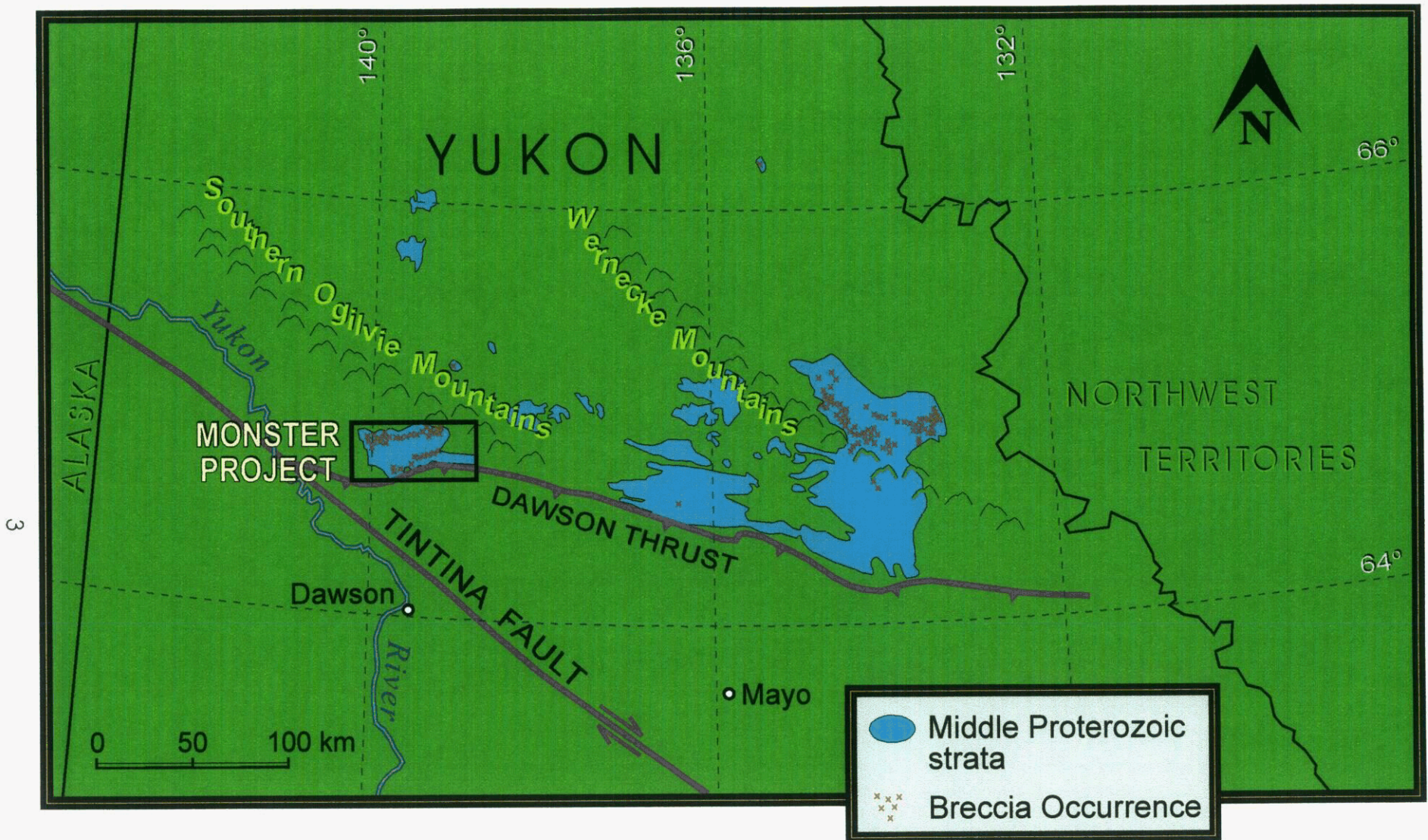


Figure 2: Location of Middle Proterozoic assemblages and occurrences of the Wernecke Breccia, Yukon Territory

Figure 3: SCARY Claims Location Map

NTS 116-B-14
UTM Zone 7



UTM +
Co-ordinates

200 0 200 400 Meters



fixed wing aircraft from Dawson City to a 600 m long outfitter's gravel airstrip on the South Tatonduk River (64° 55.7'N, 139° 52.3'W) and hence by helicopter to the property (some 15 km). For the 2001 program, Monster Copper accessed the property by helicopter from their fly camp on the Monster/Cookie Property. Dawson City has regular air service from Whitehorse, and also has a full complement of hotels, equipment, expeditors, helicopter companies etc.

The area lies in the western portion of the southern Ogilvie Mountains, 60 km north of the Tintina Trench. This region was unaffected by continental glaciation during the Pleistocene (Lane, 1990) resulting in rounded mountainous terrain. Locally, alpine glaciation has created steep cirques and sharp ridges on many of the mountains on the property. Elevations on the Scary Property range from around 1200 m Above Sea Level (4000') to about 1950 m Above Sea Level (6400') on the highest peaks. The property is above treeline, and is covered by alpine grasses, moss and shrubs. Outcrop is abundant on the uppermost slopes of the mountains and less so on ridge crests; valleys and the lower parts of the slopes are typically scree covered.

4.0 PROPERTY EXPLORATION HISTORY

Original exploration in the 1970's in the Wernecke Mountains was for red bed copper, Sullivan-style sedex deposits, and to a lesser extent unconformity associated uranium. Numerous mineral occurrences associated with the Wernecke Breccia (see below) were discovered during this work. Recent exploration in the Wernecke Mountains has concentrated on the breccias and their perceived potential for IOCG deposits. A joint venture between Pamicon Developments/Equity Engineering, Newmont Mining and Westmin Resources has spent US\$5.5 million in the Wernecke Mountains since 1993 (Gorton and Stammers, 2000). This work has not been well documented (at least in publicly available documents), but a number of prospects were developed and at least partially tested. Some of the better intersections include 110 m @ .3% Cu/.06 g/t Au, 75 m @ .41% Cu/.3 g/t Au, 21 m @ 2.0% Cu/.2 g/t Au/.2% Co, and 5.5 m @ 0.5% Cu/.21 g/t Au (Gorton and Stammers, 2000).

The amount of exploration conducted to date in the Ogilvie Mountains is negligible compared to that done in the Wernecke Mountains, although from geological considerations the potential in the two places should be similar. In the mid to late 1970's several companies, including Hudson Bay, Cyprus Anvil and UMEX/Shell, explored in the Ogilvie Mountains, primarily for carbonate-hosted Pb-Zn in the Gillespie Lake Group. The presence of the Wernecke Breccia was noted at this time, and UMEX/Shell conducted mapping, soil geochemistry, IP and magnetic surveys around some of the breccia occurrences. No further work was done in the area until the early 1990's, when Major General Resources (now Commander Resources Ltd) and Placer Dome worked on the Lala (now called the Olympic) breccia/mineralization occurrence in the eastern part of the North Belt of Wernecke Breccia (Fig. 4).

In 1993 a preliminary exploration program was carried out by the privately funded Monster Joint Venture (which became Pendisle Resources Ltd.) on part of the Monster/Cookie Property). This work was followed by stream sediment sampling and additional staking in the spring of 1994. The Scary Property was staked in August of 1994. Exploration on the property in 1994 consisted of fly camp-based geological mapping and prospecting, as well as rock, soil and silt geochemical sampling (Falls and Baknes, 1995). Altered rocks and several areas of Cu mineralization within Wernecke Breccia were noted during this work. In addition, several silt samples had anomalous concentrations of Cu, Co and Au.

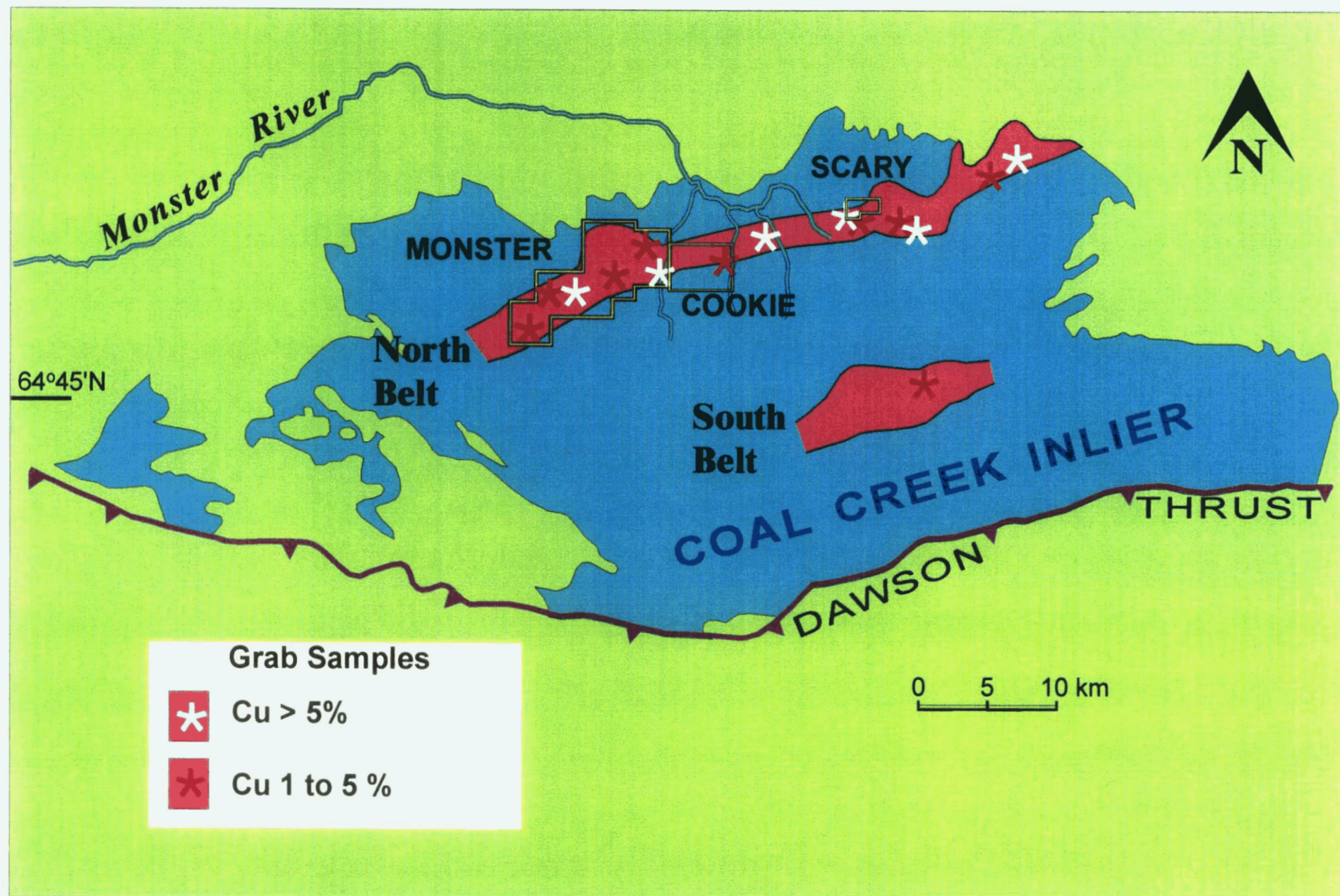


Figure 4: Location of belts of Wernecke Breccia, Monster Project properties and areas of known mineralization in the Coal Creek Inlier of the Ogilvie Mountains (cf. Fig. 2).

In 1996, Blackstone Resources Inc., a successor to Pendisle, flew an airborne magnetic and radiometric geophysical survey over the entire Northern and Southern belts of Wernecke Breccia defined by Lane (1990; Fig. 4), including over the Scary Property. The survey was flown on north-south lines spaced 1 km apart over most of the area and 250 m apart over the Monster claims. This survey and all available data were subsequently evaluated in detail by Etheridge Henley Williams, a consulting firm with abundant expertise in searching for IOCG deposits in Australia (EHW, 1997). In 1998 Blackstone spent several man-days on the Scary property on follow-up mapping and rock and soil sampling (Jones, 1999).

5.0 2001 EXPLORATION PROGRAM

The objectives of Monster Copper's 2001 exploration program on the Scary Property were to gain confidence in the geological environment as it pertained to its prospectivity for IOCG deposits, and to collect several rock samples to verify the presence of anomalous metals on the property. The property was visited on August the 12; a geological traverse was undertaken and three rock samples were collected for chemical analysis.

6.0 REGIONAL GEOLOGY

Proterozoic strata of northwestern Canada have been divided into three distinct tectonostratigraphic units (Young et al., 1979). Sequence A comprises deformed, predominantly sedimentary rocks varying in age from 1.7 to approximately 1.0 Ga. The Belt/Purcell Supergroup, which hosts the Sullivan deposit, and the Wernecke Supergroup, host to the Wernecke Breccia, are members of Sequence A. Sequence B consists of marine platform and terrestrial sedimentary rocks aged 1.0 to 0.78 Ma, possibly recording development of an intracratonic basin in the interior of a supercontinent (Rainbird, 1995). This sequence is represented by the Pinguicula Group in the Wernecke Mountains and by the Fifteenmile Group in the Ogilvie Mountains (overlying the Wernecke Supergroup). Sequence C" (0.78 to 0.56 Ga.) contains rifted to passive margin sedimentary rocks developed during fragmentation of this supercontinent. Contacts between individual sequences are characterized by well developed unconformities (Young et al., 1979).

Proterozoic strata of the Wernecke Supergroup within the Wernecke Mountains consist of a minimum of 14 km of mostly fine-grained terrigenous and carbonate rocks, and are interpreted to comprise a possible intracratonic rift basin (Thorkelson, 2000). The Wernecke Supergroup has been subdivided into three conformable groups: i) Fairchild Lake Group (oldest), ii) Quartet Group and iii) Gillespie Lake Group (youngest). The stratigraphic base of the Wernecke is not exposed.

The Fairchild Lake Group (4 km thick) consists of grey-green laminated siltstone, mudstone, fine sandstone and minor carbonate (Delaney, 1981). Metamorphic grade is greenschist with localized development of schists and phyllite. The Fairchild Lake Group is comprised of five formations, with distinctive carbonate beds in the middle and top of the group. Delaney (1981) sees the Fairchild Lake Group as being deposited in deep water by southerly flowing currents.

The Quartet Group (5 km thick) is a monotonous succession of dark grey siltstone, sandstone, mudstone and minor silty dolomite (Delaney, 1981). The base of the Quartet Group is underlain by a pyritic carbonaceous claystone, which possibly represents a sediment starved basin. Overlying siltstone-

mudstone rhythmites record a gradual increase of sediment into the basin. These rhythmites grade upward into a thick siliclastic unit typical of a shallow marine setting, such as sub-tidal to inter-tidal facies.

The Gillespie Lake Group (4 km thick) consists of a dominantly orange dolomite with minor intercalations of sand and clay (Delaney, 1981). The base of the Gillespie Lake Group is characterized by shallow marine silicic sediments, with a gradual increase in dolomite up section. Paleocurrents on these silicic sediments indicate a southerly transport. Patches of relict limestone are common throughout the section, implying that much of the group was originally limestone. Thorkelson (1995) postulated that shallow water to partly emergent conditions existed during evolution of the Gillespie Lake Group.

The Wernecke Supergroup is locally overlain by the amygdaloidal, intermediate to mafic Slab volcanics in the Wernecke Mountains. Clasts of these volcanics have been noted in the Wernecke Breccia. Thorkelson (1995) states "a volcanic succession at least 250 m thick was deposited subaerially on a substrate of deformed Wernecke Supergroup prior to generation of Wernecke Breccia". Unfortunately these volcanics are not widespread, and their interpreted stratigraphic position corresponds to the transition between the Wernecke Supergroup (Sequence A) and the Pinguicula Group (Sequence B), which is the site of a major unconformity. Thus the volcanics could have been much more extensive than is now the case.

Dikes and intrusions of diorite, syenite, gabbro and lesser basalt cut the Wernecke Supergroup. In the Wernecke Mountains, the dioritic to syenitic Bonnet Plume River series of intrusions has been dated at 1710 to 1720 Ma (Thorkelson et al., in press). Some dikes are truncated by the unconformity with the overlying Pinguicula Group, whereas others pass through it. Lamprophyre dikes, comprised of phlogopite + clinopyroxene and perovskite, also occur in the Wernecke Supergroup, but these are likely to be of Paleozoic age.

Although described above for the Wernecke Mountains, these stratigraphic relationships are also valid for the Ogilvie Mountains. No volcanics have been found in the Ogilvies, but rare amygdaloidal (i.e. high level) mafic dikes occur. This part of the Ogilvie Mountains is cored by the Coal Creek Inlier, an east-trending window of Middle Proterozoic rocks of the Wernecke Supergroup that have been cut by two belts of Wernecke Breccia (Fig. 5) and by mafic sills and dikes.

The Coal Creek Inlier has been mapped at 1:250,000 scale by Green (1972). The breccias were examined in some detail as part of an MSc thesis by Lane (1990); this mapping was released as a government 1:50,000 scale map (Lane and Godwin, 1992). The Geological Survey of Canada has re-mapped the Dawson map area at a scale of 1:50,000 (Thompson et al., 1992).

7.0 PROPERTY GEOLOGY

Part of Monster Copper's 2001 program involved a reconnaissance examination of the property geology to confirm previous mapping; no original mapping was undertaken. The Scary Property is underlain predominantly by Quartet and to a lesser extent Fairchild Lake Group sediments that have been intruded by a relatively continuous, ENE-trending belt of Wernecke Breccia (Fig. 5). The Quartet Group consists of grey to black shale, bedded on a mm to cm scale, and with highly variable orientation (most commonly vertical). The Fairchild Lake Group is dominated by thickly bedded (5 cm to 1 m) dolomite, which typically weathers orange-brown and is well jointed.

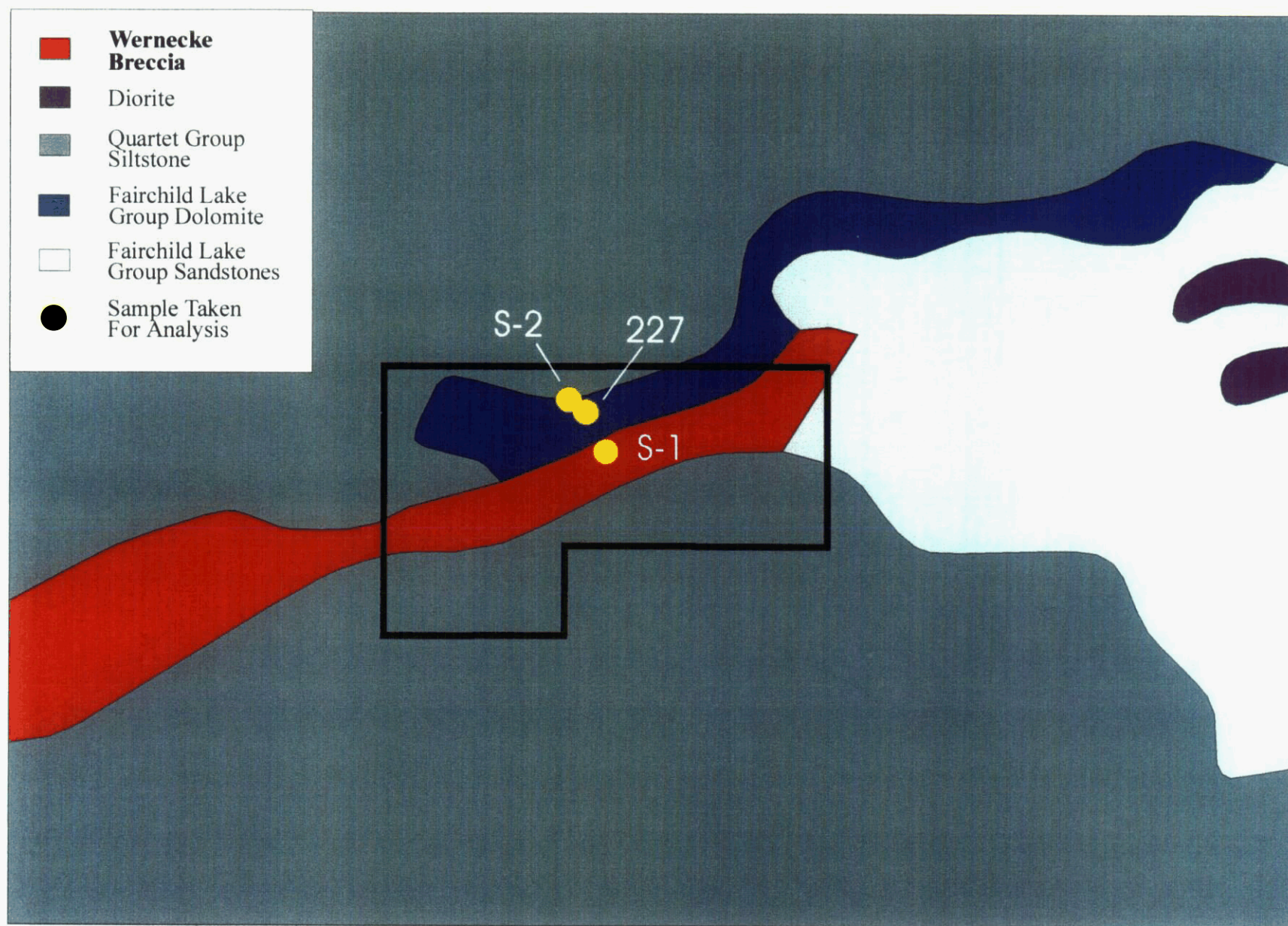


Figure 5: Geology, sample locations, Scary Property. Modified after Thompson et al. (1992)

The Wernecke Breccia where seen on the property consists of angular clasts of Wernecke Supergroup sediments in a matrix typically dominated by iron carbonate, with lesser amounts of chlorite or hematite-chlorite. The Wernecke Breccia cross-cuts the sediments in a step-like fashion, intruding along bedding planes for some distance and then cutting perpendicular to bedding planes, before intruding parallel to bedding planes once again. Shale adjacent to the breccia is commonly carbonatized. Thin veins of specularite were noted in the Wernecke Breccia and adjacent sediment

Only one "showing" was noted-this was a small area of breccia with a matrix that was strongly hematized and chloritized, and which contained minor malachite and disseminated chalcopryrite. Sample 227 was taken at this location (Fig. 5; Tables 2 and 3).

8.0 ROCK SAMPLING RESULTS

Three rock samples were collected and submitted to Activation Laboratories (Actlabs) for analysis. Actlab's "Gold + 48" analytical package was requested- this package provides analyses of all common metals and many other elements of interest. A combination of INNA (Neutron Activation) and ICP (Inductively Coupled Plasma) techniques are used for analysis. All samples were relatively iron-rich. Sample locations are shown in Figure 5, and results for selected elements are provided in Table 2. Sample descriptions are given in Table 3 and full chemical analyses are given in Appendix C.

The "showing" returned a value of 0.8% Cu, as well as elevated Co and slightly anomalous Au. Interestingly, all three samples had high levels of barium. The metal anomalism and anomalous Ba are considered encouraging.

9.0 DISCUSSION AND RECOMMENDATIONS

Monster Copper's 2001 work in the Ogilvie Mountains has served to increase the company's confidence in the target area as a whole. Monster Copper is now confident that the Wernecke Breccia present on its properties is an intrusive, iron-rich, variably mineralized hydrothermal breccia, similar to breccias seen by Monster Copper personnel in IOCG-bearing terrains elsewhere in the world (Olympic Dam, Queensland, Great Bear Magmatic Zone, Carajas Province (Brazil), etc.). As such, the company considers the breccia belts to have the potential to host a large to giant IOCG deposit. The presence of the Wernecke Breccia on the Scary Property has been confirmed. Furthermore, the breccia was seen to host both iron-rich alteration and anomalous to almost ore grade levels of metals, at least locally. The Scary Property is thus considered to be prospective, and worthy of a more detailed exploration program. In that respect, the objective of the 2001 exploration program on the property has been achieved.

The next step in exploration of the Scary Property would be a reconnaissance gravity survey, with traverses spaced on the order of 600 to 1000 m apart, and data points collected every 400 m along traverses. Such a survey is recommended when funding permits. This should be accompanied by additional geological reconnaissance and rock sampling. Upon receiving any geophysical encouragement, consideration should be given to increasing the land position around these claims.

Table 2: Selected Chemical Results

Sample	Claim	UTM Easting	UTM Northing	Cu ppm	Au ppb	Ag ppm	Co ppm	As ppm	Ba ppm	Fe %	Mo ppm	U ppm	Zn ppm
S-1	Scary 15	575118	7194535	10	-2	-0.3	5	2.2	460	4.96	4	3.3	103
S-2	Scary 16	574943	7194770	5	-2	-0.3	7	2	700	4.61	4	1.9	74
227	Scary 16	547983	7194753	7614	12	-0.3	72	13.3	470	10.3	3	2.9	152

Table 3: Rock Sample Descriptions

Sample ID	Claim	UTM	UTM	Description
		Easting	Northing	
S-1	Scary 15	575118	7194535	Hematite veins cutting carbonatized shale
S-2	Scary 16	574943	7194770	Wernecke Breccia with hematite-rich matrix
227	Scary 16	547983	7194753	Wernecke Breccia with hematite-carbonate matrix, minor malachite

10.0 REFERENCES

- Caulfield, D.A. 1995. Summary of Olympic Dam potential in the Yukon and of the Monster Property. Blackstone Resources Inc. Internal Report, 20 p.
- Delaney, G.D. 1981. The Mid-Proterozoic Wernecke Supergroup, Wernecke Mountains, Yukon Territory; in Proterozoic Basins of Canada, Geological Survey of Canada, Paper 81-10, p. 1-23.
- EHW. 1997. Structural interpretation and targeting of Monster and environs geophysical survey, Yukon Territory, Canada. Blackstone Resources Internal Report, 55 p.
- Falls, R.B. and Baknes, M.E. 1995. 1994 Geological Report on the Scary 1-20 Claims. Blackstone Resources Internal Report, 8 p.
- Gorton, R. and Stammers, M.A. 2000. Copper-gold mineralization in the Wernecke Breccias, Yukon Territory, Canada. Short Course Notes, Vancouver Mining Exploration Group, Nov. 16, 2000.
- Green, L.H. 1972. Geology of Nash Creek, Larsen Creek and Dawson map-areas, Yukon Territory. Geological Survey of Canada, Memoir 364, 157 p.
- Hammer, S. 1939. Terrain corrections for gravimeter stations. Geophysics, Society of Exploration Geophysicists, v.4, pp.184-194.
- Jones, M.I. 1999. 1998 geological mapping, prospecting, rock and soil sampling program on the Scary property, Scary 1-20 claims. Blackstone Resources Internal Report, 6 p.
- Kane, M. F. 1962. A comprehensive system of terrain corrections using a digital computer. Geophysics, Society of Exploration Geophysicists, v.27, pp.455-462.
- Lane, R.A. 1990. Geologic setting and petrology of the Proterozoic Ogilvie Mountains Breccia of the Coal Creek Inlier, Southern Ogilvie Mountains, Yukon Territory. MSc Thesis, University of British Columbia, 223 p.
- Lane, R.A. and Godwin, C.I. 1992. Geology of the Ogilvie Mountains Breccias, Coal Creek Inlier (NTS 116 B/11, 13, 14). Department of Indian and Northern Affairs, Open File 1992-1.
- Nagy, D., 1966, The gravitational attraction of a right rectangular prism: Geophysics, Society of Exploration Geophysicists, v.31, pp.362-371
- Rainbird, R.H. 1995. Neoproterozoic sedimentary basins of Northwestern Canada: stratigraphy, correlation, tectonics and metallogeny. *In*: Metallogeny of Proterozoic Basins, MDRU Short Course Notes.
- Thompson, R.I., Roots, C.F. and Mustard, P.S. 1992. Geology of Dawson map area (116 B,C) (northeast of Tintina Trench). Geological Survey of Canada Open File 2849 (13 sheets, scale: 1:50,000).

Thorkelson, D. J. 1995. Middle Proterozoic hematitic breccias of Northern Yukon. *In: Metallogeny of Proterozoic Basins*, MDRU Short Course Notes.

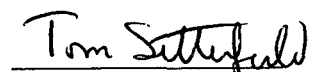
Thorkelson, D. J. 2000. Geology and mineral occurrences of the Slat Creek, Fairchild Lake and "Dolores Creek" areas, Wernecke Mountains (106D/16, 106C/13, 106C/14), Yukon Territory. Exploration and Geological Services Division, Yukon. Indian and Northern Affairs, Canada, Bulletin 10, 73 p.

Thorkelson, D.J., Mortensen, J.K., Davidson, G.J., Creaser, R.A., Perez, W.A. and Abbott, J.G. In Press. Mesoproterozoic intrusive breccias in Yukon, Canada: the role of hydrothermal systems in reconstructions of North America and Australia. *Precambrian Research*.

Young, G.M., Jefferson, C.W., Delaney, G.D., and Yeo, G.M. 1979. Middle and Late Proterozoic evolution of the northern Canadian Cordillera and Shield. *Geology*, v. 7, pp.125-128.

Respectfully Submitted,

MONSTER COPPER RESOURCES INC.


Tom Setterfield, P. Geo
Ottawa, Ontario
June, 2002

APPENDIX A: LIST OF FIELD PERSONNEL

Michael Downes (Geologist)
Monster Copper Resources Inc
11 Rocksprings Ave
Richmond Hill, ON
L4S 1R2

Tom Setterfield (Geologist)
Monster Copper Resources Inc
21 Tripp Crescent
Ottawa, ON
K2J 1C5

Christine Purves (Cook)
Aurora Geosciences
Suites 11 & 12 - 4078 4th Avenue
Whitehorse, Yukon
Y1A 5P7

APPENDIX B

STATEMENT OF EXPENDITURES

**STATEMENT OF EXPENDITURES
MONSTER/COOKIE PROPERTY**

**Scary Claims
August 12, 2001**

CANADA) In the matter of an evaluation program on the Scary Property

I, Tom Setterfield, of Monster Copper Resources Inc., 21 Tripp Crescent, Ottawa, Ontario, do solemnly declare that a program consisting of geological reconnaissance and rock sampling was carried out on the Scary 1-20 Mineral Claims on August 12, 2001. Total expenses of \$6,697.78 were incurred during the course of this work and in the compilation of the results (does not include cost of report writing):

see table on following page for details

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared at Ottawa in the
Province of Ontario this

16th day of June, 2002

)
)
)

Tom Setterfield

Table B1: Expenditures Incurred in Planning, Carrying out and Interpreting Monster's Copper's 2001 Exploration Program in the Ogilvie Mountains

	Complete Field Program	Monster Claim Group	Cookie Claim Group	Scary Claim Group	Nearby Reconnaissance
Monster Copper Geologists Fees	25101	15538.71	3585.86	2390.57	3585.86
Monster Copper and Aurora Travel and Accommodation	5883.87	3642.4	840.55	560.37	840.55
Meals	833.2	515.79	119.03	79.35	119.03
Radio Rental	162	100.29	23.14	15.43	23.14
Office Supplies	181.1	112.11	25.87	17.25	25.87
Satellite Phone Charges	439.87	272.3	62.84	41.89	62.84
Courier Charges	132.49	82.02	18.93	12.62	18.93
Maps, airphotos, map plotting charges	685.61	424.43	97.94	65.3	97.94
Helicopter Charter	21073.31	14418.58	3327.36	2218.24	1109.12
Airplane Charter	2812	1924	444	296	148
Monster Copper Geophysicists Fees	4050	2180.77	1246.15		623.08
Geophysical Contractors	21325	11482.69	6561.54		3280.77
Camp Set-up and Maintenace, Groceries	9606.52	5946.89	1372.36	914.91	1372.36
Chemical Analyses	1038.32	780.77	85.85	85.85	85.85
Total	93324.29	57421.75	17811.42	6697.78	11393.34

APPENDIX C

CERTIFICATES OF ANALYSIS

Quality Analysis...



Innovative Technologies

Invoice No.: 24277
Work Order: 24478
Invoice Date: 28-MAR-02
Date Submitted: 22-MAR-02
Your Reference: MONSTER
Account Number: 3372

TNS CONSULTING
21 TRIPP CRESCENT
NEPEAN, ONTARIO
K2J 1C5 CANADA
ATTN: TOM SETTERFIELD

CERTIFICATE OF ANALYSIS

29 ROCKS (PREP.REV3.2) were submitted for analysis.
1 PULP(S) were submitted for analysis.

The following analytical packages were requested. Please see
our current fee schedule for elements and detection limits.

REPORT 24277 CODE 1H-INAA (INAAGEO.REV1)
REPORT 24277 B CODE 1H-TOTAL DIGESTION ICP (TOTAL.REV2)
REPORT 24277 C CODE 4B-MAJ ELEM FUS ICP (WRA.REV2)

This report may be reproduced without our consent. If only selected
portions of the report are reproduced, permission must be obtained.
If no instructions were given at time of sample submittal regarding
excess material, it will be discarded within 90 days of this report.
Our liability is limited solely to the analytical cost of these analyses.
Test results are representative only of material submitted for analysis.

CERTIFIED BY :


DR E. HOFFMAN / GENERAL MANAGER

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613

E-MAIL ancaster@actlabs.com ACTLABS GROUP WEBSITE <http://www.actlabs.com>

Activation Laboratories Ltd. Work Order: 24478 Report: 24277

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir ppb	Mo ppm	Na %	Ni ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Sr %	Ta ppm	Th ppm	U ppm	W ppm	Zn ppm	La ppm	Ce ppm
M-1A	25	-5	31.5	330	2.4	5	30	18	-1	1.27	-1	-1	-5	-1	0.06	-20	46	0.5	3.7	-3	-0.01	-0.05	-0.5	4.3	1.3	3	77	23.7	48
M-1B	35	18	28.3	340	-0.5	2	43	38	-1	1.85	1	-1	-5	-1	0.03	-20	79	0.4	7.3	-3	-0.01	-0.05	0.7	4.8	3	3	146	2.1	-3
M-1C	11	23	132	850	-0.5	-1	27	39	2	1.94	2	-1	-5	6	0.03	-20	86	1.8	8.3	-3	-0.01	-0.05	-0.5	6	3.2	-1	131	40.3	69
M-1D	5	-5	7.4	520	-0.5	1	25	53	1	8.27	5	-1	-5	-1	0.08	-23	74	0.9	11.6	-3	-0.01	-0.05	1.1	11.5	2.4	-1	160	35.9	73
M-2A	1070	23	970	-50	-0.5	15	2090	-5	-1	4.35	-1	-1	-5	-1	0.02	78	-15	-0.1	5.3	-3	-0.03	-0.05	-0.5	-0.2	-0.5	-1	390	4.6	11
M-3A	-2	-5	36.9	1100	-0.5	-1	15	80	1	3.15	2	-1	-5	-1	0.04	-23	128	4.4	13.2	-3	-0.01	-0.05	-0.5	12.1	4.1	-1	86	76.3	125
M-10	20	14	128	480	-0.5	-1	58	36	-1	1.49	1	-1	-5	-1	0.04	-20	92	1.3	6.1	-3	-0.01	-0.05	-0.5	6.4	5.6	-1	86	29.7	43
M-13	23	-5	704	100	-0.5	2	482	25	-1	4.03	1	-1	-5	5	0.03	78	-15	-0.1	5.4	-3	-0.02	-0.05	1.2	5	2.9	-1	-50	38.3	74
M-17.8	-2	-5	7.4	1200	-0.5	-1	6	59	-1	3.09	6	-1	-5	7	0.1	-20	120	1.1	11.1	-3	-0.01	-0.05	-0.5	13.5	1.1	-1	-50	25.6	52
M-18	46	-5	30.4	640	-0.5	-1	85	54	4	3.28	3	-1	-5	2	1.24	-22	64	1.5	8.9	-3	-0.01	-0.05	-0.5	9.9	2.6	-1	94	10.2	19
M-21	9	-5	21.6	780	-0.5	-1	14	49	2	1.88	2	-1	-5	5	0.05	-20	94	2.7	10.1	-3	-0.01	-0.05	-0.5	9.8	6.3	-1	88	20.3	40
M-22	28	14	168	1200	-0.5	-1	102	49	4	8.7	4	-1	-5	4	0.06	-22	58	13.2	5.8	-3	-0.02	-0.05	-0.5	13.6	7.6	-1	1090	8	16
M-35	-2	-5	3.3	740	-0.5	12	22	30	-1	2.76	3	-1	-5	4	0.08	-20	76	0.8	6.4	5	-0.01	-0.05	-0.5	7.7	3.3	-1	103	9.1	20
M-37A	6	-5	6.8	420	-0.5	4	17	58	3	6.94	4	-1	-5	-1	0.07	-23	203	1.5	13	-3	-0.01	-0.05	1.2	13.1	3.7	3	105	24.6	48
M-37B	5	-5	12.4	720	-0.5	4	39	53	3	4.64	4	-1	-5	-1	0.06	-23	148	1.6	11.4	-3	-0.01	-0.05	1.4	12	6.8	-1	142	28.9	61
M-40	49	6	74.2	460	-0.5	-1	23	54	-1	6.52	2	-1	-5	3	0.06	48	54	20.5	2.2	-3	-0.01	-0.05	-0.5	7.3	3.8	-1	136	5.7	12
M-41	-2	-5	90	870	-0.5	-1	22	56	2	5.08	6	-1	-5	9	0.09	-22	101	1.1	10.4	-3	-0.01	-0.05	-0.5	13.6	9.3	6	154	41.9	74
115	-2	-5	5.3	440	-0.5	5	15	57	3	5.99	4	-1	-5	-1	0.07	-22	174	1.5	11.8	-3	-0.01	-0.05	-0.5	11.7	2.7	3	86	25.6	46
202	39	-5	7.5	460	-0.5	-1	40	68	3	9.72	3	-1	-5	-1	0.67	76	57	0.5	26.5	-3	-0.02	-0.05	-0.5	5.9	6	-1	150	4.8	11
216	-2	-5	8.6	1800	-0.5	1	17	67	3	10.5	5	-1	-5	-1	0.06	-24	213	4.2	12.8	-3	-0.01	-0.05	1.1	13.6	4.2	5	112	49.6	85
227	12	-5	13.3	470	-0.5	9	72	68	-1	10.3	3	-1	-5	3	1.46	91	32	1.6	18.6	-3	-0.02	-0.05	1.6	9.3	2.9	3	152	46.4	78
234	-2	-5	2.3	100	-0.5	-1	7	23	-1	1.41	8	-1	-5	-1	1.71	-25	66	0.6	3.2	-3	-0.02	-0.05	-0.5	12.5	3.3	-1	128	100	194
236	-2	-5	5.1	610	-0.5	-1	3	39	-1	26.5	6	-1	-5	7	0.24	-29	103	1.5	8.2	-3	-0.01	-0.05	-0.5	9.3	4.6	7	80	12.7	23
240	-3	-5	5.1	310	-0.5	1	42	40	-1	12.6	4	-1	-5	-1	2.46	69	68	3.3	43.2	-3	-0.02	-0.05	-0.5	7.8	2	-1	-50	30.5	56
305	-2	-5	6.8	500	-0.5	5	18	67	4	6.72	4	-1	-5	5	0.07	-26	190	2	13	-3	-0.01	-0.05	-0.5	13.3	2.5	-1	111	25.6	46
S-1	-2	-5	2.2	460	-0.5	5	5	31	1	4.96	4	-1	-5	4	0.06	-20	97	1.4	4.7	-3	-0.01	-0.05	1	10.6	3.3	-1	103	32.7	57
S-2	-2	-5	2	700	-0.5	4	7	41	2	4.61	5	-1	-5	4	0.09	-20	118	1	9.5	-3	-0.01	-0.05	0.8	9.6	1.9	4	74	14.7	28
H-1A	-2	-5	4.1	4100	-0.5	6	4	49	1	4.73	5	-1	-5	-1	0.12	-22	130	1.4	7.5	-3	-0.01	-0.05	-0.5	14.6	3.1	-1	-50	22.7	42
H-1C	-2	-5	9.8	710	-0.5	-1	72	30	2	19.5	4	-1	-5	2	0.03	53	71	4.2	34.3	-3	-0.02	-0.05	-0.5	3	4.1	-1	94	40.7	70
H-1C (PULP DUP)	-2	-5	9.3	650	-0.5	-1	71	31	-1	19.2	3	-1	-5	1	0.03	55	65	4.4	34.4	-3	-0.02	-0.05	-0.5	3	4.2	-1	93	41.9	73
DMMAS-15-1121	536	-5	2440	390	4.3	8	70	150	-1	8.18	3	-1	-5	-2	0.8	-32	45	9.7	19.3	-3	-0.03	-0.05	-0.5	1	-0.5	19	300	12.9	21
DMMAS-15-1120	528	-5	2380	500	3.1	8	69	147	2	8.49	2	-1	-5	-1	0.78	-30	37	8.6	19.5	-3	-0.03	-0.05	-0.5	1.2	2.5	19	224	12	25
DMMAS-15-1119	553	-5	2360	520	3	7	71	135	2	8.34	2	-1	-5	-1	0.76	-31	40	8.7	19.5	-3	-0.03	-0.05	-0.5	1.4	1.4	17	276	12.1	20

Accepted Value-DMMAS-15 517+-88 2400+-250 370+-120 3.0+-1.5 8+-1.6 65+-7 132+-22 1+-0.9 7.89+-0.87 2+-1 0.75+-0.08 46+-20 8.3+-2.8 18+-2.0 1.1+-0.6 17+-4 210+-60 12+-1.5 20+-5

Activation Laboratories Ltd. Work Order: 24478 Report: 24277

Sample ID	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Mass g
M-1A	16	3.7	0.4	-0.5	1.3	0.21	30.34
M-1B	-5	0.6	-0.2	-0.5	0.7	0.12	27.07
M-1C	25	4.6	0.7	-0.5	1	0.15	27.8
M-1D	28	4.4	1	-0.5	1.8	0.3	25.75
M-2A	-5	2.4	0.8	2.1	11.7	1.67	27.5
M-3A	41	7.7	0.9	-0.5	1.3	0.2	25.1
M-10	10	1.7	0.4	-0.5	1.4	0.22	27.66
M-13	32	7.2	1.4	1	1.8	0.26	26.04
M-17.8	25	4.6	1	-0.5	2	0.3	24.59
M-18	-5	1.2	-0.2	-0.5	1	0.15	26.55
M-21	13	2.7	0.3	-0.5	1.1	0.16	24.14
M-22	7	1.1	-0.2	0.6	1.3	0.21	27.11
M-35	7	2.9	0.9	-0.5	1.5	0.23	23.31
M-37A	14	3.4	0.7	-0.5	1.9	0.3	23.54
M-37B	18	4.2	0.8	-0.5	1.8	0.29	22.13
M-40	-5	0.7	0.3	-0.5	1.6	0.24	20.34
M-41	29	4.9	1.3	-0.5	1.8	0.29	23.26
115	17	3.3	0.8	0.5	1.9	0.3	24.23
202	6	1.2	0.5	-0.5	1.1	0.17	27.3
216	29	5.8	1.4	0.8	2.2	0.33	28.39
227	27	5.5	1.6	-0.5	2.5	0.4	26.22
234	68	13.2	2.4	-0.5	2.1	0.31	22.03
236	5	1.6	0.6	-0.5	1	0.14	29.9
240	26	4.9	1.4	0.9	3.8	0.57	28.66
305	13	3.5	0.9	-0.5	1.9	0.3	23.08
S-1	16	4.1	1	-0.5	1.1	0.16	25.38
S-2	13	2.2	0.6	-0.5	1.5	0.26	28.76
H-1A	14	3.3	1	-0.5	2.8	0.44	22.53
H-1C	25	5.9	1.9	0.8	3.9	0.6	32.93
H-1C (PULP DUP)	25	6	1.9	0.8	4	0.61	32
DMMAS-15-1121	9	3.7	1.1	-0.5	5.3	0.53	25.21
DMMAS-15-1120	11	3.6	1.2	0.6	3.6	0.54	25.85
DMMAS-15-1119	10	3.6	1.2	-0.5	3.4	0.5	25.15

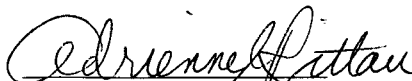
Accepted Value-DMMAS-15 11+-4 3.5+-0.5 1.1+-0.2 0.7+-0.2 3.3+-1.0 0.49+-0.11

Activation Laboratories Ltd. Work Order No. 24478 Report No. 24277B

'Near Total' Digestion Analysis: Code 1H

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
M-1A	0.8	-0.3	1328	1448	-1	7	14	53	1.69	-1	-2	5.17	1.31	3.05	0.021	12	0.06	32	14	0.034
M-1B	14.2	0.6	11713	885	1	20	18	124	4.04	2	4	2.27	2.49	1.57	0.029	10	0.13	77	7	0.281
M-1C	18.6	0.6	45552	297	3	15	47	113	3.72	2	9	0.36	2.93	0.54	0.037	10	0.21	137	10	0.095
M-1D	0.3	-0.3	374	418	-1	31	6	83	4.29	1	-2	2.05	5.19	2.20	0.066	18	0.29	93	12	0.005
M-2A	14.2	1.6	60151	3270	-1	147	61	271	0.05	-1	5	17.30	0.04	8.62	-0.001	22	-0.01	15	60	2.613
M-3A	0.4	-0.3	354	38	-1	22	26	41	5.44	2	-2	0.20	5.45	0.46	0.066	10	0.24	188	6	1.983
M-10	9.9	-0.3	11496	85	-1	16	12	41	3.74	-1	4	0.18	3.12	0.48	0.056	10	0.20	77	7	0.128
M-13	1.0	-0.3	3094	1586	4	70	5	36	3.51	-1	3	2.74	1.00	2.95	0.031	9	0.09	55	22	0.050
M-17.8	0.4	-0.3	28	39	-1	8	11	17	6.13	-1	-2	0.02	7.48	0.45	0.020	21	0.27	49	7	0.463
M-18	3.9	-0.3	5452	503	-1	35	4	62	5.39	1	3	0.24	1.44	3.02	0.047	19	0.20	116	8	0.122
M-21	2.9	-0.3	4091	344	4	10	11	26	5.54	2	3	0.54	2.88	0.86	0.063	12	0.23	115	12	0.100
M-22	10.8	2.1	53957	16	1	29	86	684	3.96	-1	-2	0.17	3.47	0.26	0.088	23	0.17	52	12	6.285
M-35	0.4	-0.3	1244	2089	-1	5	7	13	3.10	-1	-2	9.21	4.24	4.60	0.067	76	0.13	27	17	0.282
M-37A	0.4	-0.3	44	1154	3	24	9	32	6.38	1	-2	4.55	6.87	3.10	0.082	28	0.30	91	19	0.010
M-37B	1.4	0.3	4955	1366	-1	30	8	34	5.69	1	3	3.35	6.18	2.44	0.064	20	0.26	64	15	0.433
M-40	5.5	-0.3	1128	22	1	29	452	14	2.97	-1	-2	0.04	2.63	0.19	0.014	5	0.13	44	9	4.247
M-41	1.0	-0.3	7285	759	6	26	10	52	7.38	-1	4	0.91	6.01	3.48	0.087	27	0.31	78	17	0.768
115	-0.3	-0.3	47	1270	2	24	6	30	6.55	1	3	4.88	6.96	2.99	0.081	27	0.28	89	20	0.009
202	0.6	-0.3	274	332	3	75	8	88	8.34	2	-2	0.45	3.60	4.19	0.088	43	0.73	184	10	0.049
216	-0.3	-0.3	11	933	4	31	12	26	6.66	3	2	1.22	4.26	2.24	0.059	45	0.26	93	17	0.043
216	-0.3	-0.3	11	920	3	30	14	24	6.51	3	3	1.20	3.99	2.15	0.059	44	0.24	90	16	0.039
227	-0.3	-0.3	7614	2243	-1	85	5	24	4.74	-1	-2	7.13	0.61	3.90	0.577	40	0.45	340	32	0.537
234	-0.3	-0.3	856	153	-1	5	-3	9	3.20	-1	-2	0.16	0.82	0.25	0.012	8	0.09	18	9	0.014
236	-0.3	-0.3	21	175	3	14	6	11	4.25	-1	3	0.44	2.89	0.58	0.085	12	0.22	103	8	0.004
240	0.3	0.4	291	821	-1	76	4	43	7.44	1	2	0.73	1.18	3.87	0.109	26	0.84	329	26	0.029
305	0.4	-0.3	40	1159	3	30	5	33	7.02	2	-2	4.47	7.13	3.16	0.089	26	0.32	98	21	0.010
S-1	-0.3	-0.3	10	1855	2	8	-3	10	4.88	-1	-2	4.63	6.82	2.41	0.101	23	0.18	51	14	0.007
S-2	-0.3	-0.3	5	1754	1	10	-3	8	4.87	1	-2	3.94	6.20	2.10	0.064	23	0.17	73	14	0.005
H-1A	-0.3	-0.3	5	2678	-1	5	6	9	5.57	-1	3	6.35	6.73	2.97	0.052	86	0.24	55	20	0.087
H-1C	0.7	-0.3	2135	854	5	56	-3	45	6.55	1	2	0.58	1.65	3.11	0.085	9	0.47	482	30	0.115
H-1C (PULP DUP)	0.7	-0.3	2077	841	5	56	5	50	6.43	1	-2	0.58	1.59	2.99	0.084	9	0.48	480	30	0.120
G-2 cert	0.04	0.016	11	232	(1.1	(5	30	86	8.147	2.5	0.037	1.401	3.718	0.452	0.061	478	0.288	36	11	(0.01
G-2	-0.3	-0.3	11	264	-1	2	33	88	5.55	3	-2	1.28	3.92	0.44	0.049	453	0.30	39	6	0.007
SDC-1 cert	0.041	(.08	30	883	(.25	38	25	103	8.338	0.26	0.026	1.001	2.722	1.019	0.069	183	0.606	102	40	0.065
SDC-1	-0.3	-0.3	70	844	2	34	24	99	4.84	3	-2	0.77	2.63	1.00	0.050	150	0.52	90	29	0.046
DNC-1 cert	(.027	(.182	96	1154	(.7	247	6.3	66	9.687	1	(.02	8.055	0.19	6.06	0.037	145	0.287	148	18	(0.039
DNC-1	-0.3	-0.3	100	1191	-1	260	11	67	8.93	-1	-2	8.05	0.17	6.89	0.026	158	0.31	168	16	0.052
SCO-1 cert	0.134	0.14	28.7	410	1.37	27	31	103	7.24	1.84	0.37	1.87	2.30	1.64	0.090	174	0.38	131	26	0.063
SCO-1	0.6	-0.3	28	424	2	30	43	103	13.45	2	-2	2.17	2.83	2.15	0.086	206	0.40	148	34	0.074
GXR-6 cert	1.3	(1	66	1008	2.4	27	101	118	17.68	1.4	(.29	0.179	1.87	0.61	0.035	35	0.498	186	14	0.016
GXR-6	0.5	-0.3	69	975	1	25	97	120	8.90	1	-2	0.16	1.55	0.40	0.053	37	0.45	186	5	0.009
GXR-2 cert	17	4.1	76	1008	(2.1	21	690	530	16.46	1.7	(.69	0.929	1.37	0.85	0.105	160	0.3	52	17	0.031
GXR-2	16.7	1.7	85	764	3	20	707	477	5.94	1	-2	0.63	1.31	0.71	0.053	137	0.31	58	9	0.018
GXR-1 cert	31	3.3	1110	853	18	41	730	760	3.52	1.22	1380	0.958	0.05	0.22	0.065	275	0.036	80	32	0.257
GXR-1	29.8	-0.3	1164	979	17	44	801	673	1.98	1	1431	0.91	0.06	0.22	0.056	335	0.03	94	34	0.234
GXR-4 cert	4	(.86	6520	155	310	42	52	73	7.20	1.9	19	1.01	4.01	1.66	0.120	221	0.29	87	14	1.770
GXR-4	3.7	-0.3	5805	145	304	39	55	76	5.88	2	41	0.96	4.03	1.85	0.115	232	0.26	93	15	1.546

Clients are advised to obtain assays for Ag>100 ppm and Pb>5000 ppm due to potential solubility problems.
 Values for Cu, Ni, Zn, Mo greater than 1% should be assayed if accuracy better than +/-10-15% is required.
 Values above 1% are for informational purposes only and should not be relied upon for promotional or ore
 reserve calculations. Assays are recommended for this purpose.
 Sulphur will precipitate in samples containing massive sulphides.


 Adrienne I. Rittau, B.Sc., G.Chem
 ICP Technical Manager

Activation Laboratories Ltd. Work Order No. 24478 Report No. 24277B

'Near Total' Digestion Analysis: Code 1H

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
G-2 cert	0.04	<u>0.016</u>	11	<u>232</u>	(1.1	(5	<u>30</u>	<u>86</u>	<u>8.147</u>	<u>2.5</u>	<u>0.037</u>	<u>1.401</u>	<u>3.718</u>	<u>0.452</u>	<u>0.061</u>	<u>478</u>	<u>0.288</u>	<u>36</u>	<u>11</u>	(0.01
G-2	-0.3	-0.3	10	211	2	3	30	73	6.47	2	-2	1.18	4.06	0.38	0.052	460	0.23	30	7	0.009
SDC-1 cert	0.041	(.08	<u>30</u>	<u>883</u>	(.25	38	<u>25</u>	<u>103</u>	<u>8.338</u>	<u>3.0</u>	0.26	<u>1.001</u>	<u>2.722</u>	<u>1.019</u>	<u>0.069</u>	<u>183</u>	<u>0.606</u>	<u>102</u>	<u>40</u>	<u>0.065</u>
SDC-1	-0.3	-0.3	28	848	1	29	28	96	7.61	3	3	0.96	2.93	0.98	0.060	206	0.58	91	36	0.065
DNC-1 cert	(.027	(.182	<u>96</u>	<u>1154</u>	(.7	<u>247</u>	<u>6.3</u>	<u>66</u>	<u>9.687</u>	1	(.02	<u>8.055</u>	<u>0.19</u>	<u>6.06</u>	<u>0.037</u>	<u>145</u>	<u>0.287</u>	<u>148</u>	<u>18</u>	(0.039
DNC-1	-0.3	-0.3	103	1178	3	256	8	63	10.91	-1	4	9.04	0.19	6.52	0.031	192	0.30	158	22	0.072
SCO-1 cert	<u>0.134</u>	<u>0.14</u>	<u>28.7</u>	<u>410</u>	<u>1.37</u>	<u>27</u>	<u>31</u>	<u>103</u>	<u>7.24</u>	<u>1.84</u>	0.37	<u>1.87</u>	<u>2.30</u>	<u>1.64</u>	<u>0.090</u>	<u>174</u>	<u>0.38</u>	<u>131</u>	<u>26</u>	<u>0.063</u>
SCO-1	0.4	0.5	28	370	2	27	41	94	11.91	2	3	2.02	2.51	1.98	0.095	218	0.34	127	43	0.086
GXR-6 cert	1.3	(1	<u>66</u>	<u>1008</u>	<u>2.4</u>	<u>27</u>	<u>101</u>	<u>118</u>	<u>17.68</u>	<u>1.4</u>	(.29	<u>0.179</u>	<u>1.87</u>	<u>0.61</u>	<u>0.035</u>	<u>35</u>	<u>0.498</u>	<u>186</u>	<u>14</u>	<u>0.016</u>
GXR-6	0.8	-0.3	69	1077	5	23	114	122	19.84	1	-2	0.26	2.16	0.98	0.064	75	0.50	183	30	0.019
GXR-2 cert	17	4.1	<u>76</u>	<u>1008</u>	(2.1	<u>21</u>	<u>690</u>	<u>530</u>	<u>16.46</u>	<u>1.7</u>	(.69	<u>0.929</u>	<u>1.37</u>	<u>0.85</u>	<u>0.105</u>	<u>160</u>	<u>0.3</u>	<u>52</u>	<u>17</u>	<u>0.031</u>
GXR-2	16.5	2.1	74	830	1	18	704	502	7.83	2	-2	0.66	1.08	0.67	0.064	163	0.28	51	9	0.024
GXR-1 cert	31	3.3	<u>1110</u>	<u>853</u>	<u>18</u>	<u>41</u>	<u>730</u>	<u>760</u>	<u>3.52</u>	<u>1.22</u>	<u>1380</u>	<u>0.958</u>	<u>0.05</u>	<u>0.22</u>	<u>0.065</u>	<u>275</u>	<u>0.036</u>	<u>80</u>	<u>32</u>	<u>0.257</u>
GXR-1	30.7	2.7	1190	1045	22	45	827	733	1.52	1	1079	1.01	0.05	0.21	0.065	422	0.02	90	41	0.286
GXR-4 cert	4	(.86	<u>6520</u>	<u>155</u>	<u>310</u>	<u>42</u>	<u>52</u>	<u>73</u>	<u>7.20</u>	<u>1.9</u>	<u>19</u>	<u>1.01</u>	<u>4.01</u>	<u>1.66</u>	<u>0.120</u>	<u>221</u>	<u>0.29</u>	<u>87</u>	<u>14</u>	<u>1.770</u>
GXR-4	3.1	0.4	5623	144	307	36	52	68	6.23	2	16	1.02	3.51	1.67	0.133	275	0.18	82	16	1.974

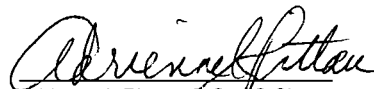
Note: Certificate data underlined are recommended values; other values are proposed except those preceded by a "(" which are information values.
Barite, gahnite, chromite, cassiterite, zircon, sphene, magnetite, and sulphates may not be totally dissolved.

Activation Laboratories Ltd. Work Order No. 24478 Report No. 24277C

SAMPLE	SiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	TOTAL	Ba	Sr	Y	Sc	Zr	Be	V
	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
M-17.11	49.52	13.68	14.75	0.202	6.68	6.22	2.67	1.89	1.263	0.13	3.32	100.32	557	112	25	43	76	-1	268
SY3 CERT	<u>59.62</u>	<u>11.75</u>	<u>6.49</u>	<u>0.32</u>	<u>2.67</u>	<u>8.26</u>	<u>4.12</u>	<u>4.23</u>	<u>0.15</u>	<u>0.54</u>	1.16		450	302	718	6.8	320	20	50 syenite
SY-3/C	59.50	11.64	6.38	0.324	2.64	8.27	4.13	4.25	0.142	0.54			431	310	718	9	331	21	50
NIST 694 CERT	<u>11.20</u>	<u>1.80</u>	<u>0.79</u>	<u>0.01</u>	<u>0.33</u>	<u>43.60</u>	<u>0.86</u>	<u>0.51</u>	0.11	<u>30.20</u>									<u>1736</u> western phosphate rock
NIST 694/C	10.71	1.90	0.72	0.011	0.33	41.87	0.91	0.59	0.116	28.53			111	961	150	3	100	2	1537
W-2 CERT	<u>52.44</u>	<u>15.35</u>	<u>10.74</u>	<u>0.163</u>	<u>6.37</u>	<u>10.87</u>	<u>2.14</u>	<u>0.627</u>	<u>1.06</u>	<u>0.131</u>	0.60		<u>182</u>	<u>194</u>	<u>24</u>	<u>35</u>	<u>94</u>	1.3	262 diabase
W-2/C	53.49	15.37	10.75	0.165	6.39	10.95	2.28	0.69	1.069	0.15			169	198	20	36	88	1	263
DNC-1 CERT	<u>47.04</u>	<u>18.30</u>	<u>9.93</u>	<u>0.149</u>	<u>10.05</u>	<u>11.27</u>	<u>1.87</u>	<u>0.229</u>	<u>0.48</u>	0.085	0.60		<u>114</u>	<u>145</u>	<u>18</u>	<u>31</u>	<u>41</u>	1	148 dolerite
DNC-1/C	46.90	18.35	8.14	0.145	10.08	11.20	1.94	0.27	0.479	0.06			101	144	15	31	35	-1	139
BIR-1 CERT	<u>47.77</u>	<u>15.35</u>	<u>11.26</u>	<u>0.171</u>	<u>9.68</u>	<u>13.24</u>	<u>1.75</u>	0.027	0.96	0.05			7.7	<u>108</u>	<u>16</u>	<u>44</u>	22	0.58	313 basalt
BIR-1/C	48.23	15.61	11.31	0.170	9.65	13.22	1.87	0.03	0.963	0.03			7	109	14	43	15	-1	322
G-2 CERT	<u>69.08</u>	<u>15.35</u>	<u>2.66</u>	<u>0.032</u>	<u>0.75</u>	<u>1.96</u>	<u>4.08</u>	<u>4.48</u>	<u>0.48</u>	<u>0.14</u>			<u>1882</u>	<u>478</u>	<u>11</u>	<u>3.5</u>	<u>309</u>	<u>2.5</u>	36 granite
G-2/C	69.43	15.27	2.58	0.032	0.75	1.93	4.10	4.39	0.476	0.14			1889	482	10	4	308	2	34
NBS 1633b CERT	<u>49.24</u>	<u>28.43</u>	<u>11.13</u>	<u>0.020</u>	<u>0.799</u>	<u>2.11</u>	<u>0.271</u>	2.26	<u>1.32</u>	0.53			<u>709</u>	<u>1041</u>		41			296 fly ash
NBS 1633b/C	49.14	28.43	11.09	0.017	0.91	2.12	0.33	2.29	1.262	0.53			691	1041	88	40	170	12	290
STM-1 CERT	<u>59.64</u>	<u>18.39</u>	<u>5.22</u>	<u>0.22</u>	<u>0.101</u>	<u>1.09</u>	<u>8.94</u>	<u>4.28</u>	<u>0.135</u>	<u>0.158</u>			560	<u>700</u>	<u>46</u>	<u>0.61</u>	<u>1210</u>	9.6	(8.7) syenite
STM-1/C	59.94	18.30	5.15	0.220	0.09	1.13	8.83	4.31	0.129	0.17			586	715	43	1	1209	9	-5
IF-G CERT	<u>41.20</u>	<u>0.15</u>	<u>55.85</u>	<u>0.042</u>	<u>1.89</u>	<u>1.55</u>	<u>0.032</u>	<u>0.012</u>	<u>0.014</u>	<u>0.063</u>			1.5	3	9	0.38	2.4	4.7	4 iron form sample
IF-G/C	39.57	0.12	57.54	0.035	1.90	1.50	0.06	0.04	0.006	0.06			4	4	8	-1	12	4	-5
FK-N CERT	<u>65.02</u>	<u>18.61</u>	<u>0.09</u>	<u>0.005</u>	<u>0.01</u>	<u>0.11</u>	<u>2.58</u>	<u>12.81</u>	<u>0.02</u>	<u>0.02</u>			<u>200</u>	<u>39</u>	0.3	0.05	13	1	3 K-feldspar
FK-N/C	64.60	18.46	0.08	0.003	0.01	0.10	2.57	12.79	0.006	0.02			197	38	-1	-1	2	1	-5

Note: Certificate data underlined are recommended values; other values are proposed except those preceded by a "(" which are information values.

Note: The Fe2O3 for the standards is Total Fe2O3 and has not been adjusted for the FeO.


 Adrienne I. Rittau, B.Sc., C.Chem
 ICP Technical Manager

APPENDIX D

GEOLOGIST'S CERTIFICATE

GEOLOGIST CERTIFICATE

I, Tom Setterfield of 21 Tripp Crescent, Ottawa, in the Province of Ontario, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist and sole proprietor of TNS Consulting with an office at 21 Tripp Crescent, Ottawa, Ontario, as well as Vice President Exploration for Monster Copper Resources Inc.
2. THAT I am a graduate of Carleton University with a Bachelor of Science Honours degree in Geology and Chemistry (1980), the University of Western Ontario with a Masters of Science degree in Geology (1984), and the University of Cambridge with a Doctor of Philosophy degree in Earth Sciences (1991).
3. THAT I am a Professional Geoscientist (P.Geo) registered in good standing with the Association of Professional Geoscientists of Ontario (No. 0103).
4. THAT this report is based on property work I conducted and/or supervised on August 12, 2001, as well as government and academic publications and assessment reports filed with the Yukon Territory.

DATED at Ottawa, Ontario, this 16th day of June, 2002.

Tom Setterfield

Tom Setterfield, PhD, P.Geo.

YUKON ENERGY, MINES
& PETROLEUM RESOURCES LIBRARY
PO Box 103
Whitehorse, Yukon Y1A 2C8

094370
Volume 2

094370

Monster Copper Resources Inc

**2001 GEOLOGICAL RECONNAISSANCE,
ROCK GEOCHEMICAL SAMPLING PROGRAM
AND GRAVITY SURVEY
ON THE MONSTER PROPERTY,
Monster 1-192, 207-216, 231-240, 263-265 and Cookie 1-58 Claims**

Located in the Ogilvie Mountains
Dawson Mining District,
NTS 116B/13
64°49' North Latitude
139°50' West Longitude

-prepared for-
MONSTER COPPER RESOURCES INC.
25th Floor, 1100 René Lévesque Blvd. West
Montréal, QC, Canada
H3B 5C9

-prepared by-
Tom Setterfield, PhD, P.Geo. and Roman Tykajlo, BSc, P.Geo.
MONSTER COPPER RESOURCES INC.
c/o 21 Tripp Crescent
Ottawa, ON, Canada
K2J 1C5

Dates worked: August 1 to August 13, 2001

2001 EXPLORATION PROGRAM ON THE MONSTER PROPERTY

TABLE OF CONTENTS

		<u>Page</u>
	Table of Contents	i
	SUMMARY	ii
1	INTRODUCTION	1
2	LIST OF CLAIMS	1
3	LOCATION, ACCESS AND GEOGRAPHY	6
4	PROPERTY EXPLORATION HISTORY	6
5	2001 EXPLORATION PROGRAM	8
6	REGIONAL GEOLOGY	8
7	PROPERTY GEOLOGY	11
8	ROCK SAMPLING RESULTS	13
9	GRAVITY SURVEY RESULTS	13
10	DISCUSSION AND CONCLUSIONS	17
11.0	REFERENCES	18

APPENDICES

APPENDIX A	List of Field Personnel
APPENDIX B	Statement of Expenditures
APPENDIX C	Certificates of Analysis
APPENDIX D	Gravity Survey Report
APPENDIX E	Complete Bouger Gravity Anomaly Data Listing
APPENDIX F	Geoscientists' Certificates



LIST OF TABLES

1	List of Claims	1
2	Selected Chemical Results	15
3	Rock Sample Descriptions	16

LIST OF FIGURES

1	Project Area Location Map	2
2	Location of Middle Proterozoic assemblages and occurrences of the Wernecke Breccia, Yukon Territory	3
3	Monster Claims Location Map	4
4	Cookie Claims Location Map	5
5	Location of belts of Wernecke Breccia	7
6	Location of significant Cu showings on the Monster Property	9
7	Geology of the Monster/Cookie Property	12
8	Samples Taken for Chemical Analysis	14

SUMMARY

In 2001, Monster Copper Resources Inc. acquired 100% interest in the 273 claim Monster/Cookie Property and the 12 claim Scary Property in the Ogilvie Mountains area of the Yukon Territory from Blackstone Ventures Inc. The properties occur along two long, linear, structurally controlled belts of intrusive, iron oxide-rich hydrothermal breccia, each with anomalous to ore grade occurrences of Cu, Co, Au and Ag. Associated alteration includes carbonatization, hematization and albitization. The breccia belts are correlative with the more widely known hydrothermal intrusive breccias in the Wernecke Mountains, 250 km to the east. These latter breccias have been explored to the tune of \$US 5.5 million by Newmont and associates. By contrast, the breccia belts (collectively known as the Wernecke Breccia) in the Ogilvie Mountains have received very little attention.

Since 1993, Blackstone Ventures Inc has controlled and intermittently explored the ground along the Ogilvie Mountains breccia belts which is considered to be most prospective. Grab samples from these claims contain up to 44.8% Cu, 1.04 g/t Au, 2.8% Co and 176 ppm Ag (different samples). None of the showings have been drilled, and neither gravity nor IP had previously been employed. Monster Copper spent 13 days in the field on its properties, conducting geological reconnaissance/due diligence and performing a gravity survey over part of the Monster/Cookie property. \$57,421.75 was spent on the Monster claims and \$17,811.42 was spent on the Cookie claims. This report documents the results of exploration on the Monster/Cookie property; a separate report covers the program on the Scary property.

The presence of breccia-related mineral occurrences with anomalous to ore grade copper, cobalt and gold was confirmed during this exploration program. Monster Copper's samples produced results of up to 1.07 g/t Au, 14.2 g/t Ag, 6.0% Cu and 0.2% Co. While the presence of this mineralization is very encouraging, the exposed showings are generally small, and are not considered to represent viable drill targets. This is an important conclusion from the 2001 program.

A gravity anomaly that appears to be of significant magnitude and extent has been partially delineated by surveying completed in 2001. This anomaly, when fully defined, is likely to constitute a very attractive drill target. Discovery of this anomaly is considered to represent an important step forward in exploration on the Monster/Cookie property.

In-fill gravity surveying is recommended to complete definition of the flanks and lateral extent of the anomaly detected during this phase of work. Intense geological mapping, sampling, and prospecting around the area of the gravity anomaly are recommended to ascertain whether the body responsible for the anomaly is exposed on surface. Drill testing the anomaly is recommended once geometric and depth parameters are interpreted. Expanding gravity survey coverage over unsurveyed areas within the Monster/Cookie Property is also strongly recommended. This should be accompanied by reconnaissance geological examination and rock sample collection.

1.0 INTRODUCTION

The Monster Project is located in the southern Ogilvie Mountains, approximately 85 km north of Dawson City in the Yukon Territory (Fig. 1). The project consists of two properties, Monster/Cookie and Scary. The Monster/Cookie Property is the largest of these properties and consists of the contiguous Monster and Cookie claim groups. The property was staked in 1993 and 1994 (small portion in 1998) to cover numerous hematite-rich breccias and associated Cu-Co-Au geochemical anomalies. The breccias belong to the Wernecke Breccia, which is the name given to a widespread group of Middle Proterozoic, intrusive, hydrothermal breccias best documented in the Wernecke Mountains 250 km east of the Monster Project (Fig. 2). The Wernecke Breccia has been extensively explored in the Wernecke Mountains for IOCG (Iron Oxide Copper-Gold, also known as Olympic Dam-type) mineralization, but exploration for this deposit type in the Ogilvie Mountains has been more restricted. The Monster/Cookie and Scary properties were purchased by Monster Copper Resources Inc. (Monster Copper) from Blackstone Ventures Inc. (Blackstone); Blackstone has intermittently explored the properties since 1993. The objective of the 2001 exploration program on the Monster/Cookie property was to gain confidence that the geological environment was prospective for IOCG deposits, to examine the known showings, and to commence initial geophysical work that would help to define one or more drill targets. This exploration program consisted of geological reconnaissance, minor rock sampling and a gravity survey that covered almost half the property.

2.0 LIST OF CLAIMS

The Monster/Cookie property comprises 273 contiguous quartz mineral claims, located in the Dawson Mining District (Table 1; Figs. 1, 3 and 4). Government records indicate that all claims are 100% owned by Monster Copper Resources Inc. of Montreal, QC.

Table 1: CLAIM DATA

Claim Name	Grant Number	No. of Claims	Expiry Date*	Owner
Monster 1-72	YB42067-138	72	Dec. 31, 2004	Monster Copper Resources Inc
Monster 73-112	YB48361-400	40	Dec. 31, 2003	Monster Copper Resources Inc
Monster 113-192	YB48591-670	80	Dec. 31, 2003	Monster Copper Resources Inc
Monster 207-216	YB48685-694	10	Dec. 31, 2003	Monster Copper Resources Inc
Monster 231-240	YB48709-718	10	Dec. 31, 2003	Monster Copper Resources Inc
Monster 263-265	YB48741-743	3	Dec. 31, 2003	Monster Copper Resources Inc
Cookie 1-20	YB52507-526	20	Dec. 31, 2004	Monster Copper Resources Inc
Cookie 21-58	YC07474-511	38	Dec. 31, 2004	Monster Copper Resources Inc
		273		

* The expiry dates for the Monster and Cookie Claims are subject to approval of assessment work covered by this report.

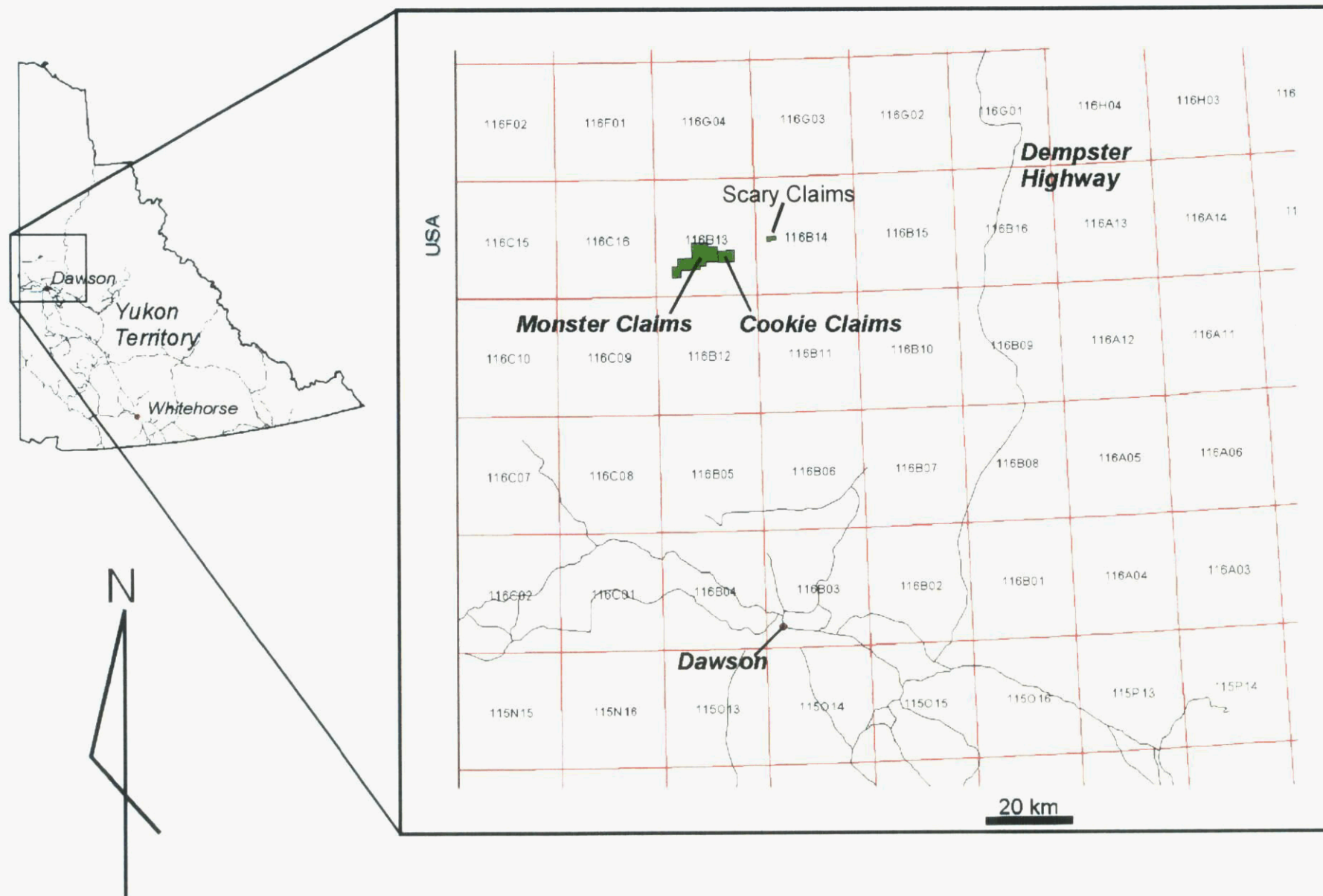


Figure 1: Project Area Location Map

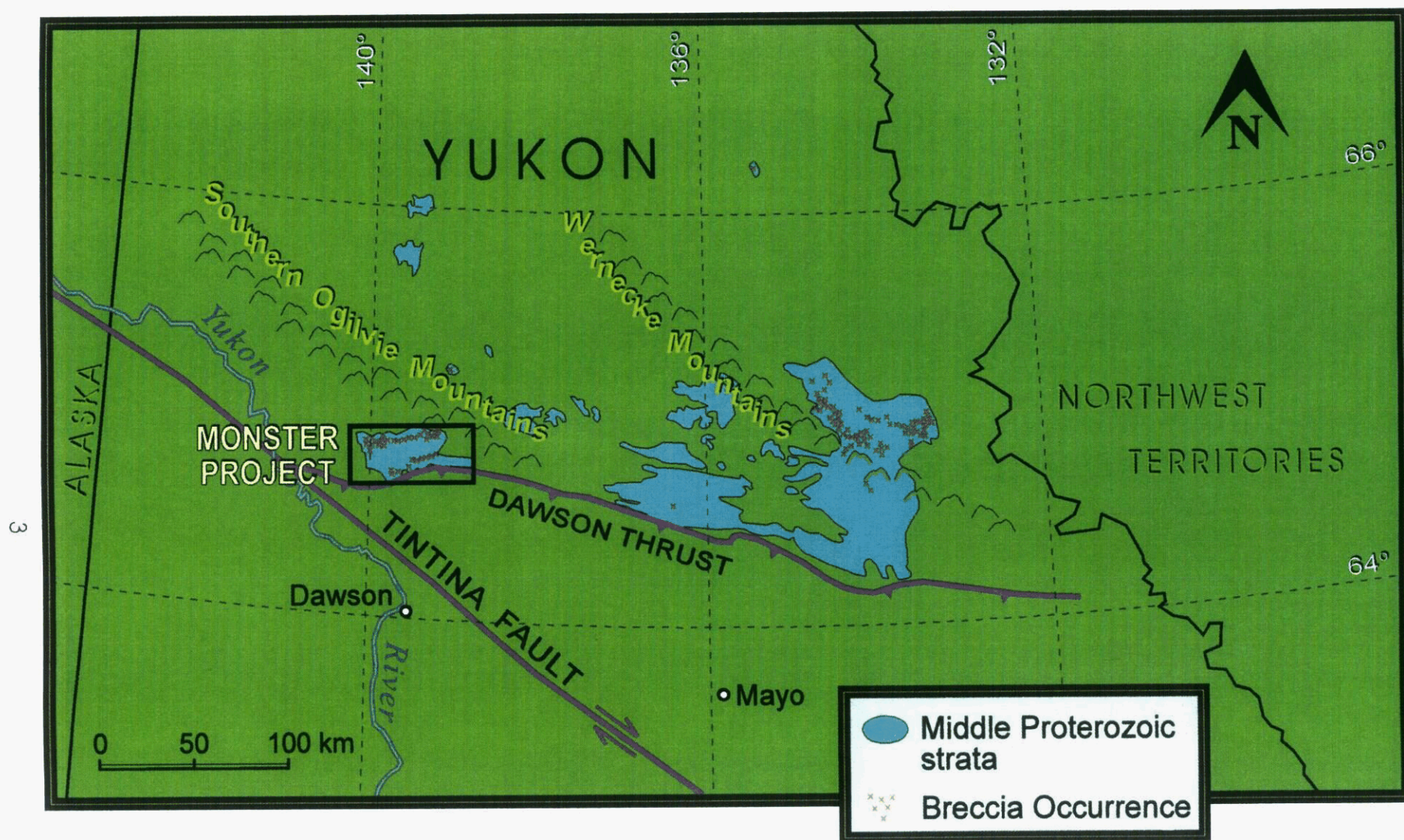


Figure 2: Location of Middle Proterozoic assemblages and occurrences of the Wernecke Breccia, Yukon Territory

Monster Claims Location Map

NTS 116-B-13
UTM Zone 7

Figure 3

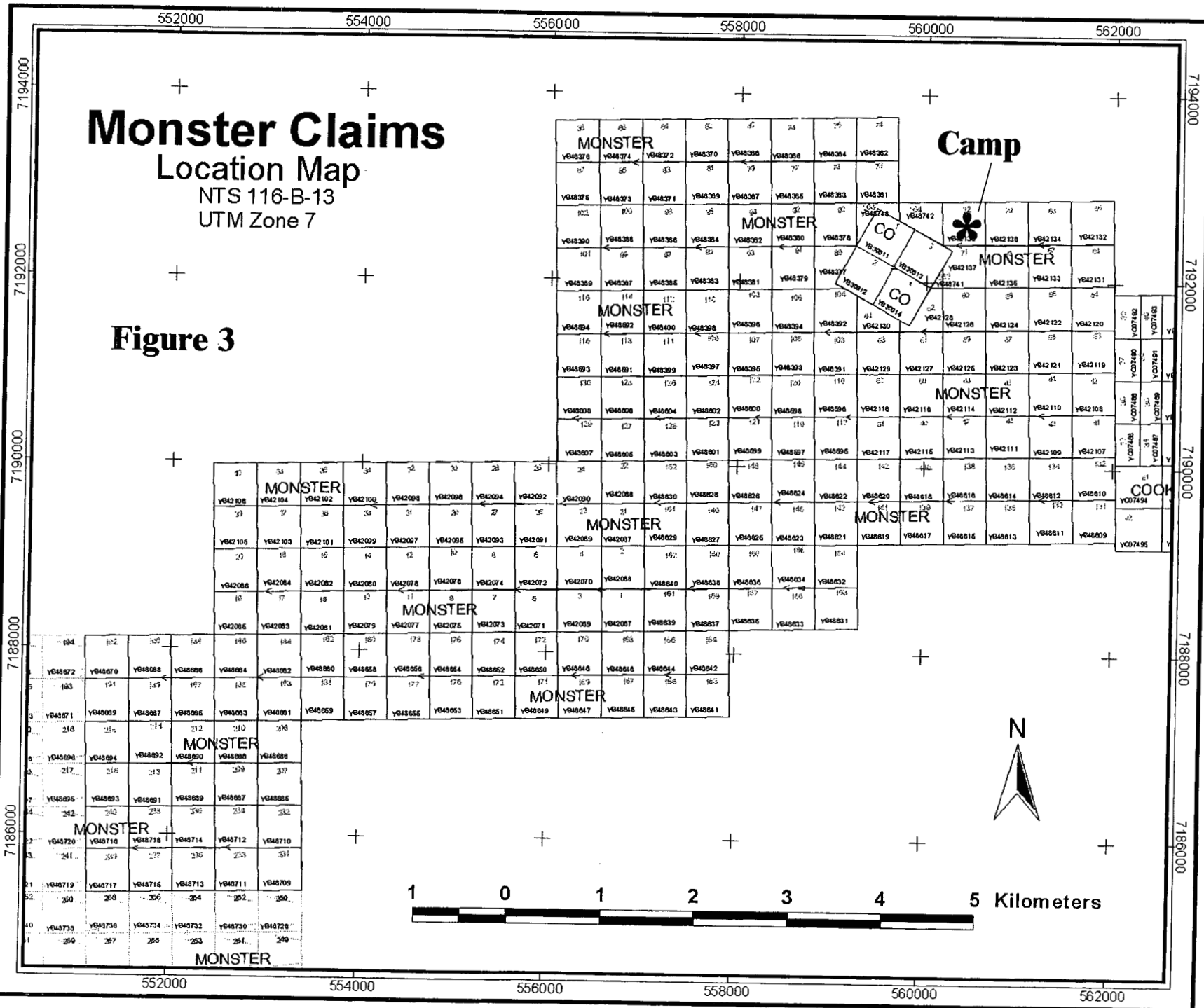
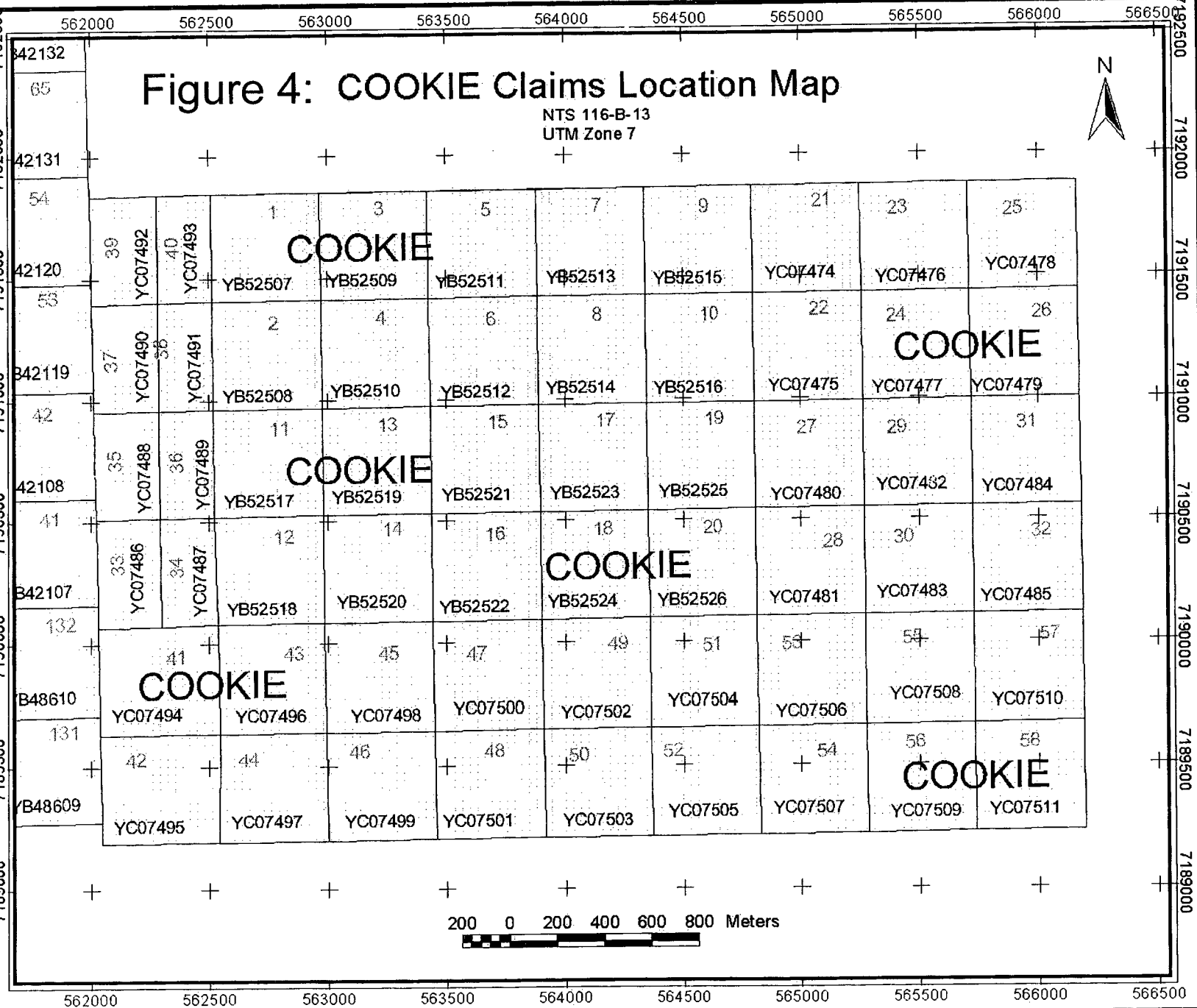


Figure 4: COOKIE Claims Location Map

NTS 116-B-13
UTM Zone 7



3.0 LOCATION, ACCESS AND GEOGRAPHY

The Monster/Cookie Property is located approximately 85 km north-northwest of Dawson City, at the headwaters of Coal Creek, which enters the Yukon River 65 km northwest of Dawson City. The approximate center of the claims is latitude 64° 49' North and longitude 139° 50' West.

The property is located approximately 75 km west of the Dempster Highway (Yukon Highway 11). The Monster/Cookie Property may be accessed by fixed wing aircraft from Dawson City to a 600 m long outfitter's gravel airstrip on the South Tatonduk River (64° 55.7'N, 139° 52.3'W) and hence by helicopter to the property (some 10 km). Dawson City has regular air service from Whitehorse, and also has a full complement of hotels, equipment, expeditors, helicopter companies etc.

The area lies in the western portion of the southern Ogilvie Mountains, 50 km north of the Tintina Trench. This region was unaffected by continental glaciation during the Pleistocene (Lane, 1990) resulting in rounded mountainous terrain. Locally, alpine glaciation has created steep cirques and sharp ridges on many of the mountains on the property. Elevations on the Monster Property range from around 900 m Above Sea Level (<3000') in the Coal Creek valley to about 2000 m Above Sea Level (>6500') on the highest peaks. Most of the property is above treeline, and is covered by alpine grasses, moss and shrubs. Thick stands of spruce are found in some of the major creek and river valleys. Outcrop is abundant on the uppermost slopes of the mountains and less so on ridge crests; valleys and the lower parts of the slopes are typically scree covered.

4.0 PROPERTY EXPLORATION HISTORY

Original exploration in the 1970's in the Wernecke Mountains was for red bed copper, Sullivan-style sedex deposits, and to a lesser extent unconformity associated uranium. Numerous mineral occurrences associated with the Wernecke Breccia (see below) were discovered during this work. Recent exploration in the Wernecke Mountains has concentrated on the breccias and their perceived potential for IOCG deposits. A joint venture between Pamicon Developments/Equity Engineering, Newmont Mining and Westmin Resources has spent US\$5.5 million in the Wernecke Mountains since 1993 (Gorton and Stammers, 2000). This work has not been well documented (at least in publicly available documents), but a number of prospects were developed and at least partially tested. Some of the better intersections include 110 m @ .3% Cu/.06 g/t Au, 75 m @ .41% Cu/.3 g/t Au, 21 m @ 2.0% Cu/.2 g/t Au/.2% Co, and 5.5 m @ 0.5% Cu/.21 g/t Au (Gorton and Stammers, 2000).

The amount of exploration conducted to date in the Ogilvie Mountains is negligible compared to that done in the Wernecke Mountains, although from geological considerations the potential in the two places should be similar. In the mid to late 1970's several companies, including Hudson Bay, Cyprus Anvil and UMEX/Shell, explored in the Ogilvie Mountains, primarily for carbonate-hosted Pb-Zn in the Gillespie Lake Group. The presence of the Wernecke Breccia was noted at this time, and UMEX/Shell conducted mapping, soil geochemistry, IP and magnetic surveys around some of the breccia occurrences. No further work was done in the area until the early 1990's, when Major General Resources (now Commander Resources Ltd) and Placer Dome worked on the Lala (now called the Olympic) breccia/mineralization occurrence in the eastern part of the North Belt of Wernecke Breccia (Fig. 5).

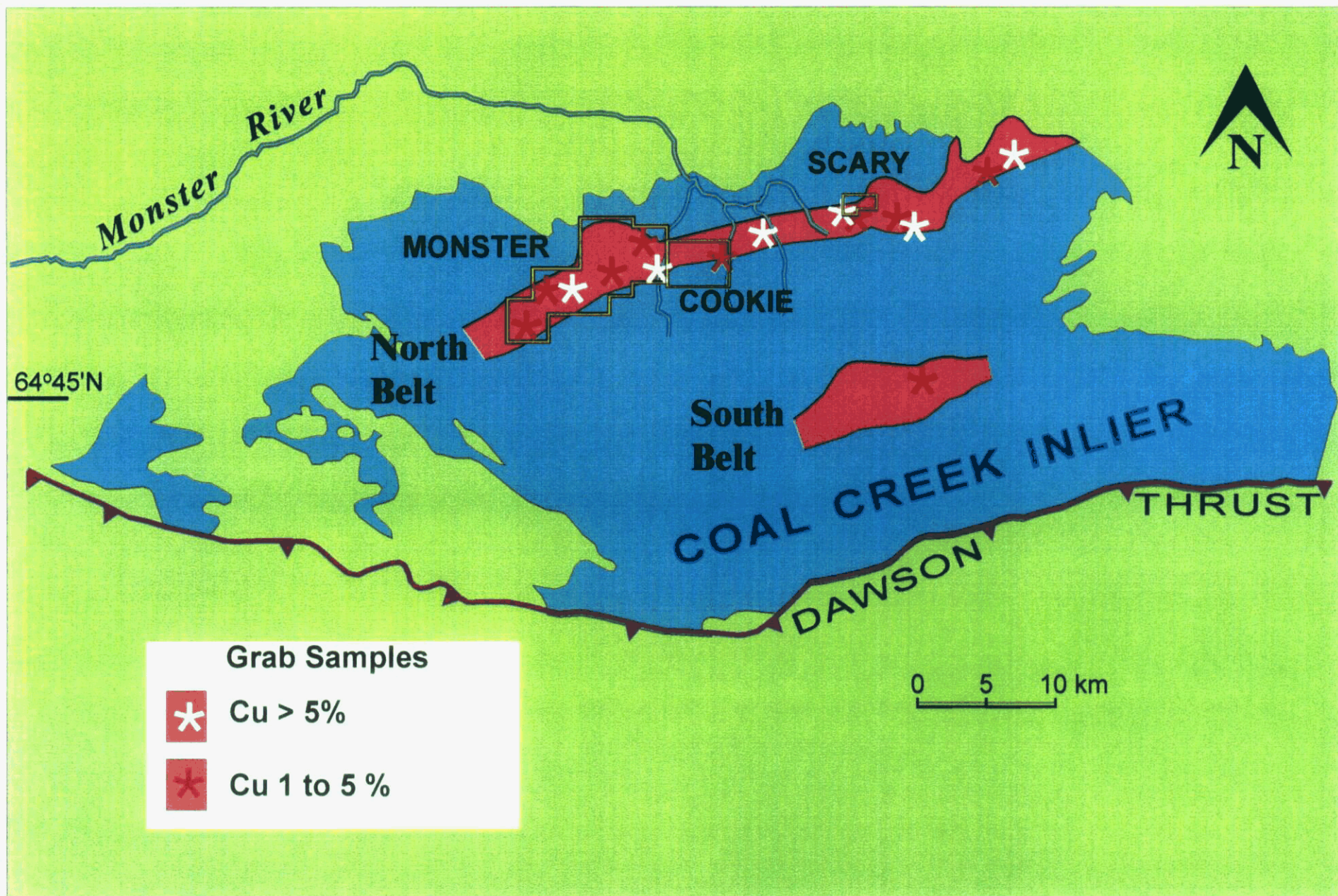


Figure 5: Location of belts of Wernecke Breccia, Monster Project properties and areas of known mineralization in the Coal Creek Inlier of the Ogilvie Mountains (cf. Fig. 2).

In 1993 a preliminary exploration program was carried out by the privately funded Monster Joint Venture (which became Pendisle Resources Ltd.) on the Monster 1-72 Claims (Fig. 3). This work was followed by stream sediment sampling and additional staking in the spring of 1994. Exploration in 1994 consisted of fly camp-based geological mapping and rock, soil and stream sediment sampling over most of the Monster Property and the other properties within the project area (Baknes, 1995; Falls and Baknes, 1995). This work indicated several areas of promising mineralization, including the 4900 Zone and East Cu-Co Zone in the Monster West area, the Cobalt Cirque in the Monster East area and the Choc Zone in the Monster Southwest area (Fig. 6).

In 1996, Blackstone Resources Inc., a successor to Pendisle, flew an airborne magnetic and radiometric geophysical survey over the entire Northern and Southern belts of Wernecke Breccia defined by Lane (1990; Fig. 5), including a detailed survey over the Monster Property itself. The survey was flown on north-south lines spaced 1 km apart over most of the area and 250 m apart over the Monster claims. This survey and all available data were subsequently evaluated in detail by Etheridge Henley Williams, a consulting firm with abundant expertise in searching for IOCG deposits in Australia (EHW, 1997). Etheridge Henley Williams targetted magnetic and structural features in the Monster East-Cookie area, the Monster West area and the Monster Southwest area. In 1998, based mainly on these recommendations, Blackstone staked the Cookie 21-58 claims (Fig. 4) and completed further mapping and soil sampling in several restricted areas (Jones, 1999).

5.0 2001 EXPLORATION PROGRAM

The objectives of Monster Copper's 2001 exploration program were twofold: firstly to gain confidence in the geological environment as it pertained to its prospectivity for IOCG deposits, and secondly to collect gravity data that would help to define one or more drill targets. A fly camp was set up on the Monster 72 claim in the northeast part of the Monster claim group (Fig. 3). This camp was operational from August 1 to August 13 inclusive. Geological reconnaissance, rock sampling and gravity surveying was conducted from the camp, with variable amounts of helicopter support. 16 man-days of geological reconnaissance were conducted on the Monster/Cookie property and 21 rock samples were taken for chemical analysis. A total of 136 gravity data points were collected on and immediately adjacent to the property.

6.0 REGIONAL GEOLOGY

Proterozoic strata of northwestern Canada have been divided into three distinct tectonostratigraphic units (Young et al., 1979). Sequence A comprises deformed, predominantly sedimentary rocks varying in age from 1.7 to approximately 1.0 Ga. The Belt/Purcell Supergroup, which hosts the Sullivan deposit, and the Wernecke Supergroup, host to the Wernecke Breccia, are members of Sequence A. Sequence B consists of marine platform and terrestrial sedimentary rocks aged 1.0 to 0.78 Ma, possibly recording development of an intracratonic basin in the interior of a supercontinent (Rainbird, 1995). This sequence is represented by the Pinguicula Group in the Wernecke Mountains and by the Fifteenmile Group in the Ogilvie Mountains (overlying the Wernecke Supergroup). Sequence C" (0.78 to 0.56 Ga.) contains rifted to passive margin sedimentary rocks developed during fragmentation of this supercontinent. Contacts between individual sequences are characterized by well developed unconformities (Young et al., 1979).

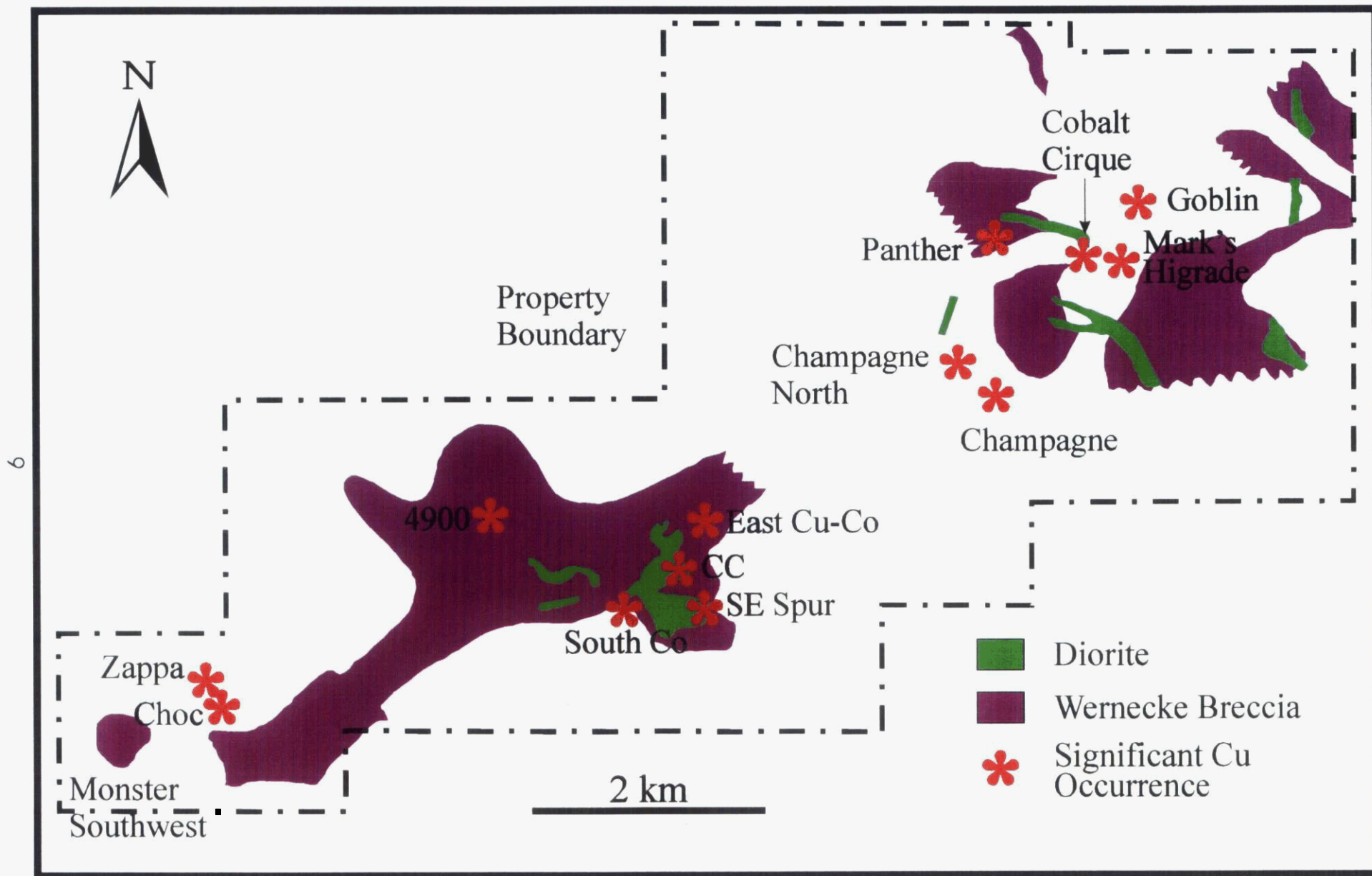


Figure 6: Location of significant Cu showings on the Monster Property. Modified after Caulfield, (1995).

Proterozoic strata of the Wernecke Supergroup within the Wernecke Mountains consist of a minimum of 14 km of mostly fine-grained terrigenous and carbonate rocks, and are interpreted to comprise a possible intracratonic rift basin (Thorkelson, 2000). The Wernecke Supergroup has been subdivided into three conformable groups: i) Fairchild Lake Group (oldest), ii) Quartet Group and iii) Gillespie Lake Group (youngest). The stratigraphic base of the Wernecke is not exposed.

The Fairchild Lake Group (4 km thick) consists of grey-green laminated siltstone, mudstone, fine sandstone and minor carbonate (Delaney, 1981). Metamorphic grade is greenschist with localized development of schists and phyllite. The Fairchild Lake Group is comprised of five formations, with distinctive carbonate beds in the middle and top of the group. Delaney (1981) sees the Fairchild Lake Group as being deposited in deep water by southerly flowing currents.

The Quartet Group (5 km thick) is a monotonous succession of dark grey siltstone, sandstone, mudstone and minor silty dolomite (Delaney, 1981). The base of the Quartet Group is underlain by a pyritic carbonaceous claystone, which possibly represents a sediment starved basin. Overlying siltstone-mudstone rhythmites record a gradual increase of sediment into the basin. These rhythmites grade upward into a thick siliclastic unit typical of a shallow marine setting, such as sub-tidal to inter-tidal facies.

The Gillespie Lake Group (4 km thick) consists of a dominantly orange dolomite with minor intercalations of sand and clay (Delaney, 1981). The base of the Gillespie Lake Group is characterized by shallow marine silicic sediments, with a gradual increase in dolomite up section. Paleocurrents on these silicic sediments indicate a southerly transport. Patches of relict limestone are common throughout the section, implying that much of the group was originally limestone. Thorkelson (1995) postulated that shallow water to partly emergent conditions existed during evolution of the Gillespie Lake Group.

The Wernecke Supergroup is locally overlain by the amygdaloidal, intermediate to mafic Slab volcanics in the Wernecke Mountains. Clasts of these volcanics have been noted in the Wernecke Breccia. Thorkelson (1995) states "a volcanic succession at least 250 m thick was deposited subaerially on a substrate of deformed Wernecke Supergroup prior to generation of Wernecke Breccia". Unfortunately these volcanics are not widespread, and their interpreted stratigraphic position corresponds to the transition between the Wernecke Supergroup (Sequence A) and the Pinguicula Group (Sequence B), which is the site of a major unconformity. Thus the volcanics could have been much more extensive than is now the case.

Dikes and intrusions of diorite, syenite, gabbro and lesser basalt cut the Wernecke Supergroup. In the Wernecke Mountains, the dioritic to syenitic Bonnet Plume River series of intrusions has been dated at 1710 to 1720 Ma (Thorkelson et al., in press). Some dikes are truncated by the unconformity with the overlying Pinguicula Group, whereas others pass through it. Lamprophyre dikes, comprised of phlogopite + clinopyroxene and perovskite, also occur in the Wernecke Supergroup, but these are likely to be of Paleozoic age.

Although described above for the Wernecke Mountains, these stratigraphic relationships are also valid for the Ogilvie Mountains. No volcanics have been found in the Ogilvies, but rare amygdaloidal (i.e. high level) mafic dikes occur. This part of the Ogilvie Mountains is cored by the Coal Creek Inlier, an east-trending window of Middle Proterozoic rocks of the Wernecke Supergroup that have been cut by two belts of Wernecke Breccia (Fig. 5) and by mafic sills and dikes.

The Coal Creek Inlier has been mapped at 1:250,000 scale by Green (1972). The breccias were examined in some detail as part of an MSc thesis by Lane (1990); this mapping was released as a government 1:50,000

scale map (Lane and Godwin, 1992). The Geological Survey of Canada has re-mapped the Dawson map area at a scale of 1:50,000 (Thompson et al., 1992).

7.0 PROPERTY GEOLOGY

Part of Monster Copper's 2001 program involved a reconnaissance examination of the property geology to confirm previous mapping; no original mapping was undertaken. The Monster/Cookie Property is underlain predominantly by Quartet and to a lesser extent Gillespie Lake Group sediments that have been intruded by a discontinuous, ENE-trending belt of Wernecke Breccia and by diorite intrusions (Fig. 7). The Quartet Group consists of grey to black shale, bedded on a mm to cm scale, and with highly variable orientation. The Gillespie Lake Group is represented by light grey, thickly bedded (5 cm to 1 m) dolomite, which locally weathers orange-brown and in some locations is stromatolitic.

The Wernecke Breccia consists predominantly of clasts of Wernecke Supergroup sediments in a matrix of iron carbonate, a red hematite-stained albite, and hematite or hematite-chlorite. Minor hydrothermal magnetite was noted on the Cookie claim group. Clasts vary in size from several mm to several hundred m, and are commonly altered to carbonate, albite or hematite. Some clasts contain veins of hematite which do not penetrate into the matrix, indicating multiple episodes of hydrothermal activity/brecciation. Rare clasts of apparent granite and basalt were noted. The matrix type varies inconsistently and with no evident pattern. In several locations transitions from undisturbed host rock (both Quartet and Gillespie Lake groups) to veined (carbonate $\pm$ quartz) and broken host rock to Wernecke Breccia were observed, over 100 to 1000 m intervals. Medium-grained to lesser fine-grained, non-magnetic to magnetic mafic dikes typically cross-cut the breccia, although in some instances the breccia cuts and engulfs specific dikes, and clasts of dike material are incorporated into the breccia. The breccia clearly cross-cuts the stratigraphy of the Wernecke Supergroup, and is confidently interpreted as an intrusive hydrothermal breccia. The breccia is similar to published accounts of the type Wernecke Breccia from the Wernecke Mountains, and was identified as such by a government geologist familiar with the Wernecke Mountains.

Nine previously documented showings were examined, and several new small showings were discovered in the course of the program. Copper $\pm$ cobalt mineralization is abundant in the breccia, and occurs in three main geologic settings. The most common setting is in sediment, typically shale of the Quartet Group, either immediately adjacent to the breccia, or forming large blocks within the breccia. In this setting, copper occurs in veins of iron carbonate, or along bedding planes and fractures in the sediment. Malachite/azurite, with minor amounts of chalcopyrite, are the typical minerals, and erythrite (cobalt bloom) was seen at one showing. A second setting that mineralization occurs in is close to (within 10 m of) mafic dikes. Several showings are of this style, with the copper in sediments, breccia, or carbonate-quartz veins. Malachite, chalcopyrite, bornite and erythrite were all seen in this setting. Mineralization also occurs disseminated in the Wernecke Breccia. This is most common in the iron carbonate breccia, although examples of copper in hematite breccia were also seen. Malachite is the most common mineral, but disseminated chalcopyrite was also noted. All of the observed showings are relatively limited in extent; none are considered to merit follow-up work in their own right, but the widespread nature of the Cu mineralization is considered very encouraging.

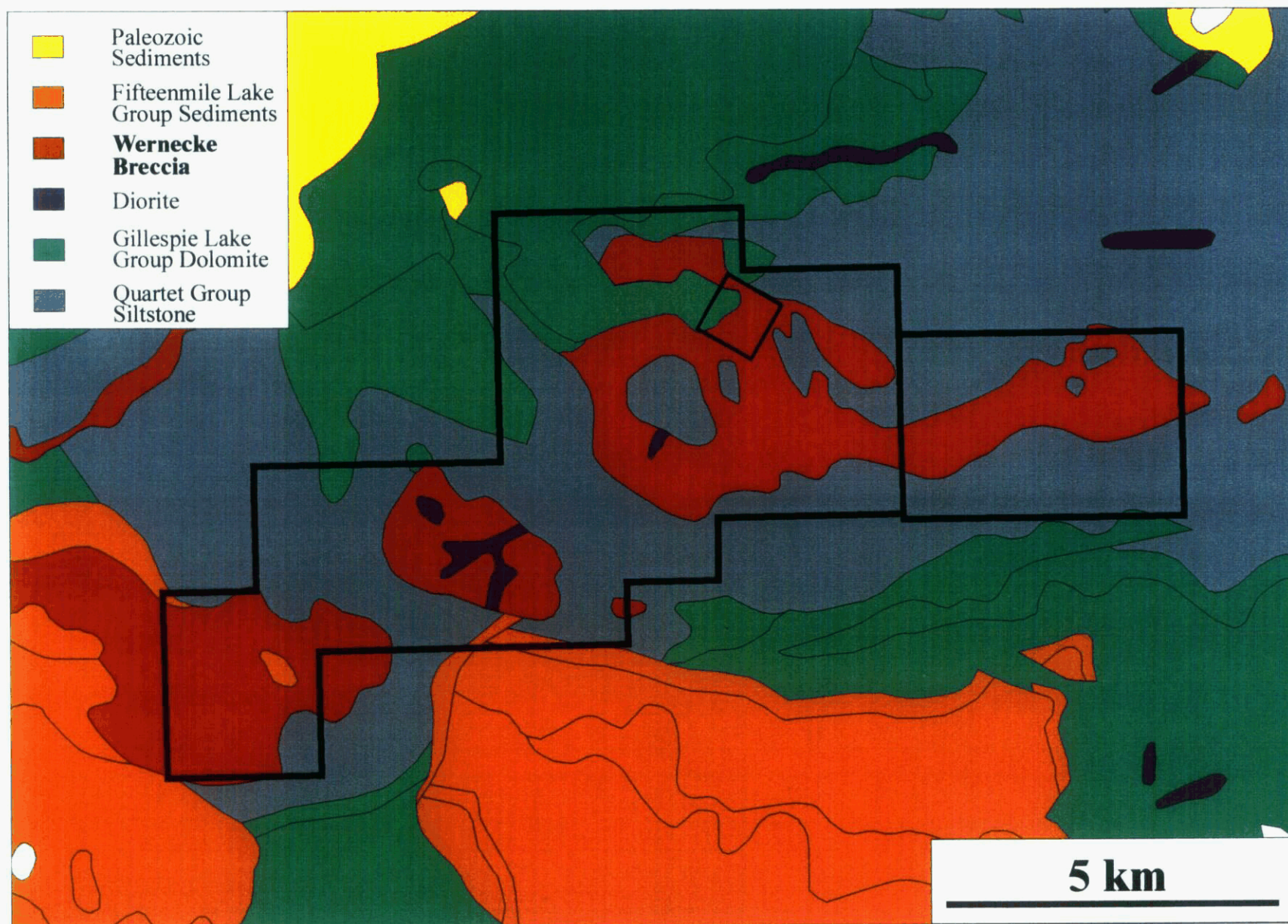


Figure 7: Geology of the Monster/Cookie Property. Modified after Thompson et al. (1992)

8.0 ROCK SAMPLING RESULTS

Twenty-one rock samples and two duplicates were collected and submitted to Activation Laboratories (Actlabs) for analysis. Actlab's "Gold + 48" analytical package was requested- this package provides analyses of all common metals and many other elements of interest. A combination of INNA (Neutron Activation) and ICP (Inductively Coupled Plasma) techniques are used for analysis. A variety of showings and altered rocks were sampled. Sample locations are shown in Figure 8, and results for selected elements are provided in Table 2. Sample descriptions are given in Table 3 and full chemical analyses are given in Appendix C.

The highest assay result, 6.0% Cu, 1.07 g/t Au, 14.2 g/t Ag and 0.2% Co, was from a quartz-carbonate-bornite vein adjacent to a mafic dike cutting Wernecke Breccia. A number of other samples had greater than 1% Cu and anomalous levels of Au and Co. Barium, an element that is consistently anomalous in IOCG systems, is elevated in many of Monster Copper's samples. Uranium, which is an important constituent of many IOCG systems, is low in these samples. This is consistent with analytical results from mineral occurrences in the Wernecke Breccia in the Wernecke Mountains (Thorkelson, 2000). Overall, the results support Monster Copper's belief in the prospectivity of the Monster/Cookie property.

9.0 GRAVITY SURVEY

MWH Geo-surveys Ltd. (MWH) of Vernon, B.C., under contract to Monster Copper Resources Inc., completed a program of gravity surveying over the Monster and Cookie claims and immediate peripheral area from August 2 to 13, 2001. The field survey crew consisted of a gravity meter operator and a GPS receiver operator. Data was processed in the offices of MWH after completion of the field data acquisition work.

The survey program was partially helicopter supported from a field camp located on the property, and consisted of 136 unique station points, and 9 station repeats (required for quality control), for a total program of 145 data points (Maps 1 and 2). The survey was tied to the Canadian Gravity Standardization Network (CGSN) via a base station located at the Dawson airport (details in Appendix A). Station points were spaced at approximately 200-400 m intervals along 14 traverses. Field data collected by MWH included gravity, elevation (determined by differential GPS (DGPS)), and local slope data around a 170 m radius from each station point. Data was reduced to simple Bouguer gravity anomaly using a Bouguer density of 2.67 gm/cc. Local slope data was used to calculate inner terrain corrections, using a terrain density of 2.67 gm/cc. Inner terrain corrections were computed for Hammer Zones (Hammer, 1939) B through D, which collectively account for terrain effects of a circle of terrain with 170 m radius from the station point. Inner terrain corrected Bouguer gravity values, station elevations, and supporting principal fact data is tabulated in Appendix D. Inner terrain corrected Bouguer gravity data, and elevation data is posted against station locations on Map 1.

Complete details of data reduction formulae applied, and instrumentation utilized is summarized in Appendix A. *The original contractor's report included data on surveying outside of the immediate Monster and Cookie claims area that is not relevant to this filing. This information has been edited from the logistics report in Appendix A.*

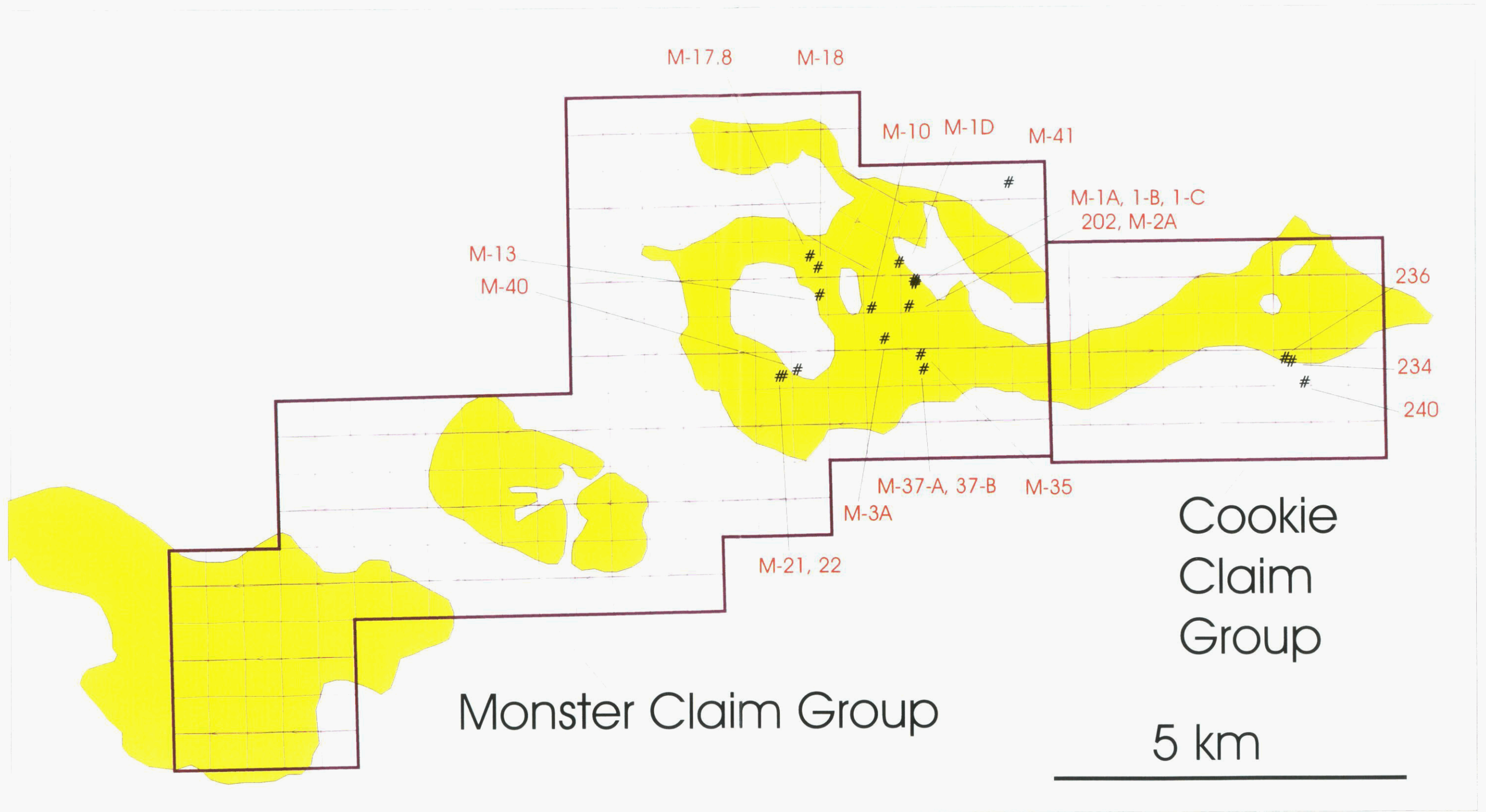


Figure 8: Samples Taken for Chemical Analysis

Table 2: Selected Chemical Results

Sample ID	Claim	UTM	UTM	Cu	Au	Ag	Co	As	Ba	Fe	Mo	U	Zn	Mo
		Easting	Northing	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
M-1A	Monster 59	560336	7191409	1328	25	0.8	30	31.5	330	1.27	-1	1.3	53	-1
M-1B	Monster 59	560345	7191402	11713	35	14.2	43	28.3	340	1.85	-1	3	124	1
M-1C	Monster 59	560349	7191381	45552	11	18.6	27	132	850	1.94	6	3.2	113	3
M-1D	Monster 62	560154	7191631	374	5	0.3	25	7.4	520	8.27	-1	2.4	83	-1
M-2A	Monster 59	560258	7191102	60151	1070	14.2	2090	970	-50	4.35	-1	-0.5	271	-1
M-3A	Monster 50	559961	7190685	354	-2	0.4	15	36.9	1100	3.15	-1	4.1	41	-1
M-10	Monster 61	559804	7191067	11496	20	9.9	58	128	480	1.49	-1	5.6	41	-1
M-13	Monster 103	559152	7191229	3094	23	1.0	482	704	100	4.03	5	2.9	36	4
M-17.8	Monster 104	559040	7191728	28	-2	0.4	6	7.4	1200	3.09	7	1.1	17	-1
M-18	Monster 104	559145	7191570	5452	46	3.9	85	30.4	640	3.28	2	2.6	62	-1
M-21	Monster 119	558694	7190228	4091	9	2.9	14	21.6	780	1.88	5	6.3	26	4
M-22	Monster 119	558660	7190225	53957	28	10.8	102	168	1200	8.7	4	7.6	684	1
M-35	Monster 47	560397	7190494	1244	-2	0.4	22	3.3	740	2.76	4	3.3	13	-1
M-37A	Monster 47	560446	7190317	44	6	0.4	17	6.8	420	6.94	-1	3.7	32	3
M-37B	Monster 47	560453	7190316	4955	5	1.4	39	12.4	720	4.64	-1	6.8	34	-1
M-40	Monster 117	558889	7190312	1128	49	5.5	23	74.2	460	6.52	3	3.8	14	1
M-41	Monster 68	561514	7192624	7285	-2	1.0	22	90	870	5.08	9	9.3	52	6
115 (Dup -37A)	Monster 47	560453	7190316	47	-2	-0.3	15	5.3	440	5.99	-1	2.7	30	2
202	Monster 50	560258	7191103	274	39	0.6	40	7.5	460	9.72	-1	6	88	3
234	Cookie 28	565021	7190396	856	-2	-0.3	7	2.3	100	1.41	-1	3.3	9	-1
236	Cookie 28	564923	7190425	21	-2	-0.3	3	5.1	610	26.5	7	4.6	11	3
240	Cookie 28	565170	7190123	291	-3	0.3	42	5.1	310	12.6	-1	2	43	-1
305 (Dup M-37A)	Monster 47	560453	7190316	40	-2	0.4	18	6.8	500	6.72	5	2.5	33	3

Table 3: Rock Sample Descriptions

Sample ID	Claim	UTM	UTM	Description
		Easting	Northing	
M-1A	Monster 59	560336	7191409	Goblin Showing: Quartz-carbonate vein with malachite
M-1B	Monster 59	560345	7191402	Goblin Showing: Black shale with malachite on bedding planes
M-1C	Monster 59	560349	7191381	Goblin Showing: Black shale with malachite and azurite on bedding planes
M-1D	Monster 62	560154	7191631	Close to Goblin Showing: Wernecke Breccia with hematite-carbonate matrix
M-2A	Monster 59	560258	7191102	Mark's High Grade Showing: Quartz-carbonate-bornite vein
M-3A	Monster 50	559961	7190685	Strongly silicified, fine-grained, ?intrusive with 5% pyrite
M-10	Monster 61	559804	7191067	Malachite-bearing quartz veins cutting shale
M-13	Monster 103	559152	7191229	Panther Showing: silicified shale with disseminated bornite, pyrite, erythrite, malachite
M-17.8	Monster 104	559040	7191728	Limonite-rich interpreted structure in albitized Wernecke Breccia
M-18	Monster 104	559145	7191570	Malachite-bearing silicified shale adjacent to diorite dike
M-21	Monster 119	558694	7190228	Champagne North Showing: Black shale with malachite on bedding planes
M-22	Monster 119	558660	7190225	Quartz-sericite altered Wernecke Breccia along ?structure near Champagne North Showing
M-35	Monster 47	560397	7190494	Massive (hydrothermal) dolomite of Wernecke Breccia with 1% disseminated chalcopyrite
M-37A	Monster 47	560446	7190317	Hematite-rich Wernecke Breccia with minor malachite
M-37B	Monster 47	560453	7190316	Dolomite-albite-hematite altered Wernecke Breccia with minor malachite
M-40	Monster 117	558889	7190312	Silica-limonite altered float with disseminated arsenopyrite
M-41	Monster 68	561514	7192624	Black shale with malachite and azurite along bedding planes
202	Monster 50	560258	7191103	Mark's High Grade Showing: fine-grained mafic dike
234	Cookie 28	565021	7190396	Carbonate-hematite altered Wernecke Breccia with minor quartz veins
236	Cookie 28	564923	7190425	Hematite-rich Wernecke Breccia
240	Cookie 28	565170	7190123	Magnetic Wernecke Breccia with trace malachite

Gravity data acquired and processed to inner terrain corrected Bouguer anomaly values by MWH, was further processed by Geo-Digit-Ex (Roman Tykajlo) of Ottawa, Ontario, to a Complete Bouguer Anomaly (CBA). The CBA includes the inner terrain correction plus outer terrain effects from 170 m to 22 km radius from the gravity station point (equivalent to Hammer Zones E through M (Hammer, 1939)). The outer terrain effects were calculated using a terrain density of 2.67 gm/cc, with a commercial terrain correction software (Geosoft) implementation of methods of Nagey (1966) and Kane (1962). A 90 m digital elevation model (DEM) of Yukon, made available from the Yukon Department of Renewable Resources Geographic Information System (RRGIS), was used as input to the program. Resulting CBA values are posted on Map 1 and 2, contoured in Map 2, and tabulated in Appendix E.

After full terrain correction, a significant gravity anomaly was defined centred at NAD27 UTM 559528E and 7190978N on claims YB42118 and YB42129. The anomaly is approximately 4.5 mGal in amplitude with a half spatial wavelength of approximately 1200 m (base-peak-base). The anomaly is defined along a single north-south traverse by 6 station points and is of sufficient size in terms of amplitude and spatial wavelength to be of significant exploration interest. The anomaly is compatible with the possible presence of a large pipe-like or funnel-like mass of hematite dominant Wernecke Breccia buried at some depth beneath the ridge top. However, the single profile and wide point spacing defining the anomaly precludes an accurate depth and geometry interpretation of a causative body.

10.0 DISCUSSION AND RECOMMENDATIONS

Monster Copper's 2001 work on the Monster/Cookie Property has served to increase the company's confidence in the target area as a whole. Monster Copper is now confident that the Wernecke Breccia present on the property is an intrusive, iron-rich, variably mineralized hydrothermal breccia, similar to breccias seen by Monster Copper personnel in IOCG-bearing terrains elsewhere in the world (Olympic Dam, Queensland, Great Bear Magmatic Zone, Carajas Province (Brazil), etc.). As such, the company considers the property to have the potential to host a large to giant IOCG deposit. The initial objective of the 2001 exploration program has thus been achieved.

The presence of breccia-related mineral occurrences with anomalous to ore grade copper, cobalt and gold was confirmed during this exploration program. While the presence of this mineralization is very encouraging, the exposed showings are generally small, and are not considered to represent viable drill targets. This is an important conclusion from the 2001 program.

A gravity anomaly that appears to be of significant magnitude and extent has been partially delineated by surveying completed in 2001. This anomaly, when fully defined, is likely to constitute a very attractive drill target. Discovery of this anomaly is considered to represent an important step forward in exploration on the Monster/Cookie property.

In-fill gravity surveying is recommended to complete definition of the flanks and lateral extent of the anomaly detected during this phase of work. A station interval of 50-100 m along the ridge top, and surveying of points laterally away from the ridge-top (if safely permitted by topographic slope), is recommended. Once more fully defined, a 3D gravity inversion model can be completed, to determine geometric and depth parameters for a causative body. Drill testing the anomaly is recommended once geometric and depth parameters are interpreted. Intense geological mapping, sampling, and prospecting

around the area of the gravity anomaly are recommended to ascertain whether the body responsible for the anomaly is exposed on surface.

To aid modeling, it is recommended that a suite of representative rock samples from the vicinity of the gravity anomaly be collected for density analysis. Other physical properties, particularly magnetic susceptibility, can also be determined to test for other existing physical property contrasts.

Expanding gravity survey coverage over unsurveyed areas within the Monster and Cookie claims is strongly recommended. This should be accompanied by reconnaissance geological examination and rock sample collection.

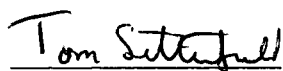
11.0 REFERENCES

- Baknes, M.E. 1995. 1994 Geological Report on the Monster 1-265 Claims. Blackstone Resources Internal Report, 43 p.
- Caulfield, D.A. 1995. Summary of Olympic Dam potential in the Yukon and of the Monster Property. Blackstone Resources Inc. Internal Report, 20 p.
- Delaney, G.D. 1981. The Mid-Proterozoic Wernecke Supergroup, Wernecke Mountains, Yukon Territory; in Proterozoic Basins of Canada, Geological Survey of Canada, Paper 81-10, p. 1-23.
- EHW. 1997. Structural interpretation and targeting of Monster and environs geophysical survey, Yukon Territory, Canada. Blackstone Resources Internal Report, 55 p.
- Falls, R.B. and Baknes, M.E. 1995. 1994 Geological Report on the Cookie 1-20 Claims Blackstone Resources Internal Report.
- Gorton, R. and Stammers, M.A. 2000. Copper-gold mineralization in the Wernecke Breccias, Yukon Territory, Canada. Short Course Notes, Vancouver Mining Exploration Group, Nov. 16, 2000.
- Green, L.H. 1972. Geology of Nash Creek, Larsen Creek and Dawson map-areas, Yukon Territory. Geological Survey of Canada, Memoir 364, 157 p.
- Hammer, S. 1939. Terrain corrections for gravimeter stations. Geophysics, Society of Exploration Geophysicists, v.4, pp.184-194.
- Jones, M.I. 1999. 1998 geological mapping, prospecting, rock and soil sampling program on the Monster property. Blackstone Resources Internal Report, 17 p.
- Kane, M. F. 1962. A comprehensive system of terrain corrections using a digital computer. Geophysics, Society of Exploration Geophysicists, v.27, pp.455-462.

- Lane, R.A. 1990. Geologic setting and petrology of the Proterozoic Ogilvie Mountains Breccia of the Coal Creek Inlier, Southern Ogilvie Mountains, Yukon Territory. MSc Thesis, University of British Columbia, 223 p.
- Lane, R.A. and Godwin, C.I. 1992. Geology of the Ogilvie Mountains Breccias, Coal Creek Inlier (NTS 116 B/11, 13, 14). Department of Indian and Northern Affairs, Open File 1992-1.
- Nagy, D., 1966, The gravitational attraction of a right rectangular prism: Geophysics, Society of Exploration Geophysicists, v.31, pp.362-371
- Rainbird, R.H. 1995. Neoproterozoic sedimentary basins of Northwestern Canada: stratigraphy, correlation, tectonics and metallogeny. *In: Metallogeny of Proterozoic Basins*, MDRU Short Course Notes.
- Thompson, R.I., Roots, C.F. and Mustard, P.S. 1992. Geology of Dawson map area (116 B,C) (northeast of Tintina Trench). Geological Survey of Canada Open File 2849 (13 sheets, scale: 1:50,000).
- Thorkelson, D. J. 1995. Middle Proterozoic hematitic breccias of Northern Yukon. *In: Metallogeny of Proterozoic Basins*, MDRU Short Course Notes.
- Thorkelson, D. J. 2000. Geology and mineral occurrences of the Slat Creek, Fairchild Lake and "Dolores Creek" areas, Wernecke Mountains (106D/16, 106C/13, 106C/14), Yukon Territory. Exploration and Geological Services Division, Yukon. Indian and Northern Affairs, Canada, Bulletin 10, 73 p.
- Thorkelson, D.J., Mortensen, J.K., Davidson, G.J., Creaser, R.A., Perez, W.A. and Abbott, J.G. In Press. Mesoproterozoic intrusive breccias in Yukon, Canada: the role of hydrothermal systems in reconstructions of North America and Australia. *Precambrian Research*.
- Young, G.M., Jefferson, C.W., Delaney, G.D., and Yeo, G.M. 1979. Middle and Late Proterozoic evolution of the northern Canadian Cordillera and Shield. *Geology*, v. 7, pp.125-128.

Respectfully Submitted,

MONSTER COPPER RESOURCES INC.



Tom Setterfield, P.Geo
Ottawa, Ontario
June, 2002



Roman Tykajlo, P.Geo
Ottawa, Ontario
June, 2002

APPENDIX A: LIST OF FIELD PERSONNEL

Michael Downes (Geologist)
Monster Copper Resources Inc
11 Rocksprings Ave
Richmond Hill, ON
L4S 1R2

Tom Setterfield (Geologist)
Monster Copper Resources Inc
21 Tripp Crescent
Ottawa, ON
K2J 1C5

Christine Purves (Cook)
Aurora Geosciences
Suites 11 & 12 - 4078 4th Avenue
Whitehorse, Yukon
Y1A 5P7

Rob Patrick (Gravity Surveyor)
MWH Geo-Surveys Ltd
2916 - 29th Street
Vernon, BC
V1T 5A6

Kaolin Pickett (GPS Surveyor)
MWH Geo-Surveys Ltd
2916 - 29th Street
Vernon, BC
V1T 5A6

APPENDIX B

STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES
MONSTER/COOKIE PROPERTY
Monster 1-192, 207-216, 231-240, 263-265 and Cookie 1-58 Claims
August 1 to August 13, 2001

CANADA) In the matter of an evaluation program on the Monster/Cookie Property

I, Tom Setterfield, of Monster Copper Resources Inc., 21 Tripp Crescent, Ottawa, Ontario, do solemnly declare that a program consisting of geological reconnaissance, rock sampling and gravity surveying was carried out on the Monster 1-192, 207-216, 231-240, 263-265 and Cookie 1-58 Mineral Claims in the period August 1 to August 13, 2001. The following expenses were incurred during the course of this work and in the compilation of the results (does not include cost of report writing):

\$57,421.75 on the Monster claim group,
\$17,811.42 on the Cookie claim group,

see table on following page for details

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared at Ottawa in the
Province of Ontario this

16th day of June, 2002

)
)
)

Tom Setterfield

Table B1: Expenditures Incurred in Planning, Carrying out and Interpreting Monster's Copper's 2001 Exploration Program in the Ogilvie Mountains

	Complete Field Program	Monster Claim Group	Cookie Claim Group	Scary Claim Group	Nearby Reconnaissance
Monster Copper Geologists Fees	25101	15538.71	3585.86	2390.57	3585.86
Monster Copper and Aurora Travel and Accommodation	5883.87	3642.4	840.55	560.37	840.55
Meals	833.2	515.79	119.03	79.35	119.03
Radio Rental	162	100.29	23.14	15.43	23.14
Office Supplies	181.1	112.11	25.87	17.25	25.87
Satellite Phone Charges	439.87	272.3	62.84	41.89	62.84
Courier Charges	132.49	82.02	18.93	12.62	18.93
Maps, airphotos, map plotting charges	685.61	424.43	97.94	65.3	97.94
Helicopter Charter	21073.31	14418.58	3327.36	2218.24	1109.12
Airplane Charter	2812	1924	444	296	148
Monster Copper Geophysicists Fees	4050	2180.77	1246.15		623.08
Geophysical Contractors	21325	11482.69	6561.54		3280.77
Camp Set-up and Maintenance, Groceries	9606.52	5946.89	1372.36	914.91	1372.36
Chemical Analyses	1038.32	780.77	85.85	85.85	85.85
Total	93324.29	57421.75	17811.42	6697.78	11393.34

APPENDIX C

CERTIFICATES OF ANALYSIS

Quality Analysis...



Innovative Technologies

Invoice No.: 24277
Work Order: 24478
Invoice Date: 28-MAR-02
Date Submitted: 22-MAR-02
Your Reference: MONSTER
Account Number: 3372

TNS CONSULTING
21 TRIPP CRESCENT
NEPEAN, ONTARIO
K2J 1C5 CANADA
ATTN: TOM SETTERFIELD

CERTIFICATE OF ANALYSIS

29 ROCKS (PREP.REV3.2)
1 PULP(S)

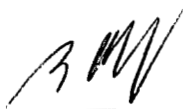
were submitted for analysis.
were submitted for analysis.

The following analytical packages were requested. Please see
our current fee schedule for elements and detection limits.

REPORT 24277 CODE 1H-INAA (INAAGEO.REV1)
REPORT 24277 B CODE 1H-TOTAL DIGESTION ICP (TOTAL.REV2)
REPORT 24277 C CODE 4B-MAJ ELEM FUS ICP (WRA.REV2)

This report may be reproduced without our consent. If only selected
portions of the report are reproduced, permission must be obtained.
If no instructions were given at time of sample submittal regarding
excess material, it will be discarded within 90 days of this report.
Our liability is limited solely to the analytical cost of these analyses.
Test results are representative only of material submitted for analysis.

CERTIFIED BY :


DR E. HOFFMAN/GENERAL MANAGER

ACTIVATION LABORATORIES LTD.

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or +1.888.228.5227 FAX +1.905.648.9613

E-MAIL ancaster@actlabs.com ACTLABS GROUP WEBSITE <http://www.actlabs.com>

Activation Laboratories Ltd. Work Order: 24478 Report: 24277

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir ppb	Mo ppm	Na %	Ni ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sn %	Sr %	Ta ppm	Th ppm	U ppm	W ppm	Zn ppm	La ppm	Ce ppm
M-1A	25	-5	31.5	330	2.4	5	30	18	-1	1.27	-1	-1	-5	-1	0.06	-20	46	0.5	3.7	-3	-0.01	-0.05	-0.5	4.3	1.3	3	77	23.7	48
M-1B	35	18	28.3	340	-0.5	2	43	38	-1	1.85	1	-1	-5	-1	0.03	-20	79	0.4	7.3	-3	-0.01	-0.05	0.7	4.8	3	3	146	2.1	-3
M-1C	11	23	132	850	-0.5	-1	27	39	2	1.94	2	-1	-5	6	0.03	-20	86	1.8	8.3	-3	-0.01	-0.05	-0.5	6	3.2	-1	131	40.3	69
M-1D	5	-5	7.4	520	-0.5	1	25	53	1	8.27	5	-1	-5	-1	0.08	-23	74	0.9	11.6	-3	-0.01	-0.05	1.1	11.5	2.4	-1	160	35.9	73
M-2A	1070	23	970	-50	-0.5	15	2090	-5	-1	4.35	-1	-1	-5	-1	0.02	78	-15	-0.1	5.3	-3	-0.03	-0.05	-0.5	-0.2	-0.5	-1	390	4.6	11
M-3A	-2	-5	36.9	1100	-0.5	-1	15	80	1	3.15	2	-1	-5	-1	0.04	-23	128	4.4	13.2	-3	-0.01	-0.05	-0.5	12.1	4.1	-1	86	76.3	125
M-10	20	14	128	480	-0.5	-1	58	36	-1	1.49	1	-1	-5	-1	0.04	-20	92	1.3	6.1	-3	-0.01	-0.05	-0.5	6.4	5.6	-1	86	29.7	43
M-13	23	-5	704	100	-0.5	2	482	25	-1	4.03	1	-1	-5	5	0.03	78	-15	-0.1	5.4	-3	-0.02	-0.05	1.2	5	2.9	-1	-50	38.3	74
M-17.8	-2	-5	7.4	1200	-0.5	-1	6	59	-1	3.09	6	-1	-5	7	0.1	-20	120	1.1	11.1	-3	-0.01	-0.05	-0.5	13.5	1.1	-1	-50	25.6	52
M-18	46	-5	30.4	640	-0.5	-1	85	54	4	3.28	3	-1	-5	2	1.24	-22	64	1.5	8.9	-3	-0.01	-0.05	-0.5	9.9	2.6	-1	94	10.2	19
M-21	9	-5	21.6	780	-0.5	-1	14	49	2	1.88	2	-1	-5	5	0.05	-20	94	2.7	10.1	-3	-0.01	-0.05	-0.5	9.8	6.3	-1	88	20.3	40
M-22	28	14	168	1200	-0.5	-1	102	49	4	8.7	4	-1	-5	4	0.06	-22	58	13.2	5.8	-3	-0.02	-0.05	-0.5	13.6	7.6	-1	1090	8	16
M-35	-2	-5	3.3	740	-0.5	12	22	30	-1	2.76	3	-1	-5	4	0.08	-20	76	0.8	6.4	5	-0.01	-0.05	-0.5	7.7	3.3	-1	103	9.1	20
M-37A	6	-5	6.8	420	-0.5	4	17	58	3	6.94	4	-1	-5	-1	0.07	-23	203	1.5	13	-3	-0.01	-0.05	1.2	13.1	3.7	3	105	24.6	48
M-37B	5	-5	12.4	720	-0.5	4	39	53	3	4.64	4	-1	-5	-1	0.06	-23	148	1.6	11.4	-3	-0.01	-0.05	1.4	12	6.8	-1	142	28.9	61
M-40	49	6	74.2	460	-0.5	-1	23	54	-1	6.52	2	-1	-5	3	0.06	48	54	20.5	2.2	-3	-0.01	-0.05	-0.5	7.3	3.8	-1	136	5.7	12
M-41	-2	-5	90	870	-0.5	-1	22	56	2	5.08	6	-1	-5	9	0.09	-22	101	1.1	10.4	-3	-0.01	-0.05	-0.5	13.6	9.3	6	154	41.9	74
115	-2	-5	5.3	440	-0.5	5	15	57	3	5.99	4	-1	-5	-1	0.07	-22	174	1.5	11.8	-3	-0.01	-0.05	-0.5	11.7	2.7	3	86	25.6	46
202	39	-5	7.5	460	-0.5	-1	40	68	3	9.72	3	-1	-5	-1	0.67	76	57	0.5	26.5	-3	-0.02	-0.05	-0.5	5.9	6	-1	150	4.8	11
216	-2	-5	8.6	1800	-0.5	1	17	67	3	10.5	5	-1	-5	-1	0.06	-24	213	4.2	12.8	-3	-0.01	-0.05	1.1	13.6	4.2	5	112	49.6	85
227	12	-5	13.3	470	-0.5	9	72	68	-1	10.3	3	-1	-5	3	1.46	91	32	1.6	18.6	-3	-0.02	-0.05	1.6	9.3	2.9	3	152	46.4	78
234	-2	-5	2.3	100	-0.5	-1	7	23	-1	1.41	8	-1	-5	-1	1.71	-25	66	0.6	3.2	-3	-0.02	-0.05	-0.5	12.5	3.3	-1	128	100	194
236	-2	-5	5.1	610	-0.5	-1	3	39	-1	26.5	6	-1	-5	7	0.24	-29	103	1.5	8.2	-3	-0.01	-0.05	-0.5	9.3	4.6	7	80	12.7	23
240	-3	-5	5.1	310	-0.5	1	42	40	-1	12.6	4	-1	-5	-1	2.46	69	68	3.3	43.2	-3	-0.02	-0.05	-0.5	7.8	2	-1	-50	30.5	56
305	-2	-5	6.8	500	-0.5	5	18	67	4	6.72	4	-1	-5	5	0.07	-26	190	2	13	-3	-0.01	-0.05	-0.5	13.3	2.5	-1	111	25.6	46
S-1	-2	-5	2.2	460	-0.5	5	5	31	1	4.96	4	-1	-5	4	0.06	-20	97	1.4	4.7	-3	-0.01	-0.05	1	10.6	3.3	-1	103	32.7	57
S-2	-2	-5	2	700	-0.5	4	7	41	2	4.61	5	-1	-5	4	0.09	-20	118	1	9.5	-3	-0.01	-0.05	0.8	9.6	1.9	4	74	14.7	28
H-1A	-2	-5	4.1	4100	-0.5	6	4	49	1	4.73	5	-1	-5	-1	0.12	-22	130	1.4	7.5	-3	-0.01	-0.05	-0.5	14.6	3.1	-1	-50	22.7	42
H-1C	-2	-5	9.8	710	-0.5	-1	72	30	2	19.5	4	-1	-5	2	0.03	53	71	4.2	34.3	-3	-0.02	-0.05	-0.5	3	4.1	-1	94	40.7	70
H-1C (PULP DUP)	-2	-5	9.3	650	-0.5	-1	71	31	-1	19.2	3	-1	-5	1	0.03	55	65	4.4	34.4	-3	-0.02	-0.05	-0.5	3	4.2	-1	93	41.9	73
DMMAS-15-1121	536	-5	2440	390	4.3	8	70	150	-1	8.18	3	-1	-5	-2	0.8	-32	45	9.7	19.3	-3	-0.03	-0.05	-0.5	1	-0.5	19	300	12.9	21
DMMAS-15-1120	528	-5	2380	500	3.1	8	69	147	2	8.49	2	-1	-5	-1	0.78	-30	37	8.6	19.5	-3	-0.03	-0.05	-0.5	1.2	2.5	19	224	12	25
DMMAS-15-1119	553	-5	2360	520	3	7	71	135	2	8.34	2	-1	-5	-1	0.76	-31	40	8.7	19.5	-3	-0.03	-0.05	-0.5	1.4	1.4	17	276	12.1	20

Accepted Value-DMMAS-15 517+-88 2400+-250 370+-120 3.0+-1.5 8+-1.6 65+-7 132+-22 1+-0.9 7.89+-0.87 2+-1 0.75+-0.08 46+-20 8.3+-2.8 18+-2.0 1.1+-0.6 17+-4 210+-60 12+-1.5 20+-5

Activation Laboratories Ltd. Work Order: 24478 Report: 24277

Sample ID	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Mass g
M-1A	16	3.7	0.4	-0.5	1.3	0.21	30.34
M-1B	-5	0.6	-0.2	-0.5	0.7	0.12	27.07
M-1C	25	4.6	0.7	-0.5	1	0.15	27.8
M-1D	28	4.4	1	-0.5	1.8	0.3	25.75
M-2A	-5	2.4	0.8	2.1	11.7	1.67	27.5
M-3A	41	7.7	0.9	-0.5	1.3	0.2	25.1
M-10	10	1.7	0.4	-0.5	1.4	0.22	27.66
M-13	32	7.2	1.4	1	1.8	0.26	26.04
M-17.8	25	4.6	1	-0.5	2	0.3	24.59
M-18	-5	1.2	-0.2	-0.5	1	0.15	26.55
M-21	13	2.7	0.3	-0.5	1.1	0.16	24.14
M-22	7	1.1	-0.2	0.6	1.3	0.21	27.11
M-35	7	2.9	0.9	-0.5	1.5	0.23	23.31
M-37A	14	3.4	0.7	-0.5	1.9	0.3	23.54
M-37B	18	4.2	0.8	-0.5	1.8	0.29	22.13
M-40	-5	0.7	0.3	-0.5	1.6	0.24	20.34
M-41	29	4.9	1.3	-0.5	1.8	0.29	23.26
115	17	3.3	0.8	0.5	1.9	0.3	24.23
202	6	1.2	0.5	-0.5	1.1	0.17	27.3
216	29	5.8	1.4	0.8	2.2	0.33	28.39
227	27	5.5	1.6	-0.5	2.5	0.4	26.22
234	68	13.2	2.4	-0.5	2.1	0.31	22.03
236	5	1.6	0.6	-0.5	1	0.14	29.9
240	26	4.9	1.4	0.9	3.8	0.57	28.66
305	13	3.5	0.9	-0.5	1.9	0.3	23.08
S-1	16	4.1	1	-0.5	1.1	0.16	25.38
S-2	13	2.2	0.6	-0.5	1.5	0.26	28.76
H-1A	14	3.3	1	-0.5	2.8	0.44	22.53
H-1C	25	5.9	1.9	0.8	3.9	0.6	32.93
H-1C (PULP DUP)	25	6	1.9	0.8	4	0.61	32
DMMAS-15-1121	9	3.7	1.1	-0.5	5.3	0.53	25.21
DMMAS-15-1120	11	3.6	1.2	0.6	3.6	0.54	25.85
DMMAS-15-1119	10	3.6	1.2	-0.5	3.4	0.5	25.15

Accepted Value-DMMAS-15 11+-4 3.5+-0.5 1.1+-0.2 0.7+-0.2 3.3+-1.0 3.49+-0.11

Activation Laboratories Ltd. Work Order No. 24478 Report No. 24277B

'Near Total' Digestion Analysis: Code 1H

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
M-1A	0.8	-0.3	1328	1448	-1	7	14	53	1.69	-1	-2	5.17	1.31	3.05	0.021	12	0.06	32	14	0.034
M-1B	14.2	0.6	11713	885	1	20	18	124	4.04	2	4	2.27	2.49	1.57	0.029	10	0.13	77	7	0.281
M-1C	18.6	0.6	45552	297	3	15	47	113	3.72	2	9	0.36	2.93	0.54	0.037	10	0.21	137	10	0.095
M-1D	0.3	-0.3	374	418	-1	31	6	83	4.29	1	-2	2.05	5.19	2.20	0.066	18	0.29	93	12	0.005
M-2A	14.2	1.6	60151	3270	-1	147	61	271	0.05	-1	5	17.30	0.04	8.62	-0.001	22	-0.01	15	60	2.613
M-3A	0.4	-0.3	354	38	-1	22	26	41	5.44	2	-2	0.20	5.45	0.46	0.066	10	0.24	188	6	1.983
M-10	9.9	-0.3	11496	85	-1	16	12	41	3.74	-1	4	0.18	3.12	0.48	0.056	10	0.20	77	7	0.128
M-13	1.0	-0.3	3094	1586	4	70	5	36	3.51	-1	3	2.74	1.00	2.95	0.031	9	0.09	55	22	0.050
M-17.8	0.4	-0.3	28	39	-1	8	11	17	6.13	-1	-2	0.02	7.48	0.45	0.020	21	0.27	49	7	0.463
M-18	3.9	-0.3	5452	503	-1	35	4	62	5.39	1	3	0.24	1.44	3.02	0.047	19	0.20	116	8	0.122
M-21	2.9	-0.3	4091	344	4	10	11	26	5.54	2	3	0.54	2.88	0.86	0.063	12	0.23	115	12	0.100
M-22	10.8	2.1	53957	16	1	29	86	684	3.96	-1	-2	0.17	3.47	0.26	0.088	23	0.17	52	12	6.285
M-35	0.4	-0.3	1244	2089	-1	5	7	13	3.10	-1	-2	9.21	4.24	4.60	0.067	76	0.13	27	17	0.282
M-37A	0.4	-0.3	44	1154	3	24	9	32	6.38	1	-2	4.55	6.87	3.10	0.082	28	0.30	91	19	0.010
M-37B	1.4	0.3	4955	1366	-1	30	8	34	5.69	1	3	3.35	6.18	2.44	0.064	20	0.26	64	15	0.433
M-40	5.5	-0.3	1128	22	1	29	452	14	2.97	-1	-2	0.04	2.63	0.19	0.014	5	0.13	44	9	4.247
M-41	1.0	-0.3	7285	759	6	26	10	52	7.38	-1	4	0.91	6.01	3.48	0.087	27	0.31	78	17	0.768
115	-0.3	-0.3	47	1270	2	24	6	30	6.55	1	3	4.88	6.96	2.99	0.081	27	0.28	89	20	0.009
202	0.6	-0.3	274	332	3	75	8	88	8.34	2	-2	0.45	3.60	4.19	0.088	43	0.73	184	10	0.049
216	-0.3	-0.3	11	933	4	31	12	26	6.66	3	2	1.22	4.26	2.24	0.059	45	0.26	93	17	0.043
216	-0.3	-0.3	11	920	3	30	14	24	6.51	3	3	1.20	3.99	2.15	0.059	44	0.24	90	16	0.039
227	-0.3	-0.3	7614	2243	-1	85	5	24	4.74	-1	-2	7.13	0.61	3.90	0.577	40	0.45	340	32	0.537
234	-0.3	-0.3	856	153	-1	5	-3	9	3.20	-1	-2	0.16	0.82	0.25	0.012	8	0.09	18	9	0.014
236	-0.3	-0.3	21	175	3	14	6	11	4.25	-1	3	0.44	2.89	0.58	0.085	12	0.22	103	8	0.004
240	0.3	0.4	291	821	-1	76	4	43	7.44	1	2	0.73	1.18	3.87	0.109	26	0.84	329	26	0.029
305	0.4	-0.3	40	1159	3	30	5	33	7.02	2	-2	4.47	7.13	3.16	0.089	26	0.32	98	21	0.010
S-1	-0.3	-0.3	10	1855	2	8	-3	10	4.88	-1	-2	4.63	6.82	2.41	0.101	23	0.18	51	14	0.007
S-2	-0.3	-0.3	5	1754	1	10	-3	8	4.87	1	-2	3.94	6.20	2.10	0.064	23	0.17	73	14	0.005
H-1A	-0.3	-0.3	5	2678	-1	5	6	9	5.57	-1	3	6.35	6.73	2.97	0.052	86	0.24	55	20	0.087
H-1C	0.7	-0.3	2135	854	5	56	-3	45	6.55	1	2	0.58	1.65	3.11	0.085	9	0.47	482	30	0.115
H-1C (PULP DUP)	0.7	-0.3	2077	841	5	56	5	50	6.43	1	-2	0.58	1.59	2.99	0.084	9	0.48	480	30	0.120
G-2 cert	0.04	0.016	11	232	(1.1	(5	30	86	8.147	2.5	0.037	1.401	3.718	0.452	0.061	478	0.288	36	11	(0.01
G-2	-0.3	-0.3	11	264	-1	2	33	88	5.55	3	-2	1.28	3.92	0.44	0.049	453	0.30	39	6	0.007
SDC-1 cert	0.041	(.08	30	883	(.25	38	25	103	8.338	3.0	0.26	1.001	2.722	1.019	0.069	183	0.606	102	40	0.065
SDC-1	-0.3	-0.3	70	844	2	34	24	99	4.84	3	-2	0.77	2.63	1.00	0.050	150	0.52	90	29	0.046
DNC-1 cert	(.027	(.182	96	1154	(.7	247	6.3	66	9.687	1	(.02	8.055	0.19	6.06	0.037	145	0.287	148	18	(0.039
DNC-1	-0.3	-0.3	100	1191	-1	260	11	67	8.93	-1	-2	8.05	0.17	6.89	0.026	158	0.31	168	16	0.052
SCO-1 cert	0.134	0.14	28.7	410	1.37	27	31	103	7.24	1.84	0.37	1.87	2.30	1.64	0.090	174	0.38	131	26	0.063
SCO-1	0.6	-0.3	28	424	2	30	43	103	13.45	2	-2	2.17	2.83	2.15	0.086	206	0.40	148	34	0.074
GXR-6 cert	1.3	(1	66	1008	2.4	27	101	118	17.68	1.4	(.29	0.179	1.87	0.61	0.035	35	0.498	186	14	0.016
GXR-6	0.5	-0.3	69	975	1	25	97	120	8.90	1	-2	0.16	1.55	0.40	0.053	37	0.45	186	5	0.009
GXR-2 cert	17	4.1	76	1008	(2.1	21	690	530	16.46	1.7	(.69	0.929	1.37	0.85	0.105	160	0.3	52	17	0.031
GXR-2	16.7	1.7	85	764	3	20	707	477	5.94	1	-2	0.63	1.31	0.71	0.053	137	0.31	58	9	0.018
GXR-1 cert	31	3.3	1110	853	18	41	730	760	3.52	1.22	1380	0.958	0.05	0.22	0.065	275	0.036	80	32	0.257
GXR-1	29.8	-0.3	1164	979	17	44	801	673	1.98	1	1431	0.91	0.06	0.22	0.056	335	0.03	94	34	0.234
GXR-4 cert	4	(.86	6520	155	310	42	52	73	7.20	1.9	19	1.01	4.01	1.66	0.120	221	0.29	87	14	1.770
GXR-4	3.7	-0.3	5805	145	304	39	55	76	5.88	2	41	0.96	4.03	1.85	0.115	232	0.26	93	15	1.546

Clients are advised to obtain assays for Ag>100 ppm and Pb>5000 ppm due to potential solubility problems.

Values for Cu, Ni, Zn, Mo greater than 1% should be assayed if accuracy better than +/-10-15% is required.

Values above 1% are for informational purposes only and should not be relied upon for promotional or ore reserve calculations. Assays are recommended for this purpose.

Sulphur will precipitate in samples containing massive sulphides.

Adrienne I. Rittau
Adrienne I. Rittau, B.Sc., C.Chem
ICP Technical Manager

Activation Laboratories Ltd. Work Order No. 24478 Report No. 24277B

'Near Total' Digestion Analysis: Code 1H

SAMPLE	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	Be	Bi	Ca	K	Mg	P	Sr	Ti	V	Y	S
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	%	%	%	ppm	%	ppm	ppm	%
G-2 cert	0.04	<u>0.016</u>	11	<u>232</u>	(1.1	(5	<u>30</u>	<u>86</u>	<u>8.147</u>	<u>2.5</u>	<u>0.037</u>	<u>1.401</u>	<u>3.718</u>	<u>0.452</u>	<u>0.061</u>	<u>478</u>	<u>0.288</u>	<u>36</u>	<u>11</u>	(0.01
G-2	-0.3	-0.3	10	211	2	3	30	73	6.47	2	-2	1.18	4.06	0.38	0.052	460	0.23	30	7	0.009
SDC-1 cert	0.041	(.08	<u>30</u>	<u>883</u>	(.25	38	<u>25</u>	<u>103</u>	<u>8.338</u>	<u>3.0</u>	<u>0.26</u>	<u>1.001</u>	<u>2.722</u>	<u>1.019</u>	<u>0.069</u>	<u>183</u>	<u>0.606</u>	<u>102</u>	<u>40</u>	0.065
SDC-1	-0.3	-0.3	28	848	1	29	28	96	7.61	3	3	0.96	2.93	0.98	0.060	206	0.58	91	36	0.065
DNC-1 cert	(.027	(.182	<u>96</u>	<u>1154</u>	(.7	<u>247</u>	<u>6.3</u>	<u>66</u>	<u>9.687</u>	1	(.02	<u>8.055</u>	<u>0.19</u>	<u>6.06</u>	<u>0.037</u>	<u>145</u>	<u>0.287</u>	<u>148</u>	<u>18</u>	(0.039
DNC-1	-0.3	-0.3	103	1178	3	256	8	63	10.91	-1	4	9.04	0.19	6.52	0.031	192	0.30	158	22	0.072
SCO-1 cert	<u>0.134</u>	<u>0.14</u>	<u>28.7</u>	<u>410</u>	<u>1.37</u>	<u>27</u>	<u>31</u>	<u>103</u>	<u>7.24</u>	<u>1.84</u>	<u>0.37</u>	<u>1.87</u>	<u>2.30</u>	<u>1.64</u>	<u>0.090</u>	<u>174</u>	<u>0.38</u>	<u>131</u>	<u>26</u>	0.063
SCO-1	0.4	0.5	28	370	2	27	41	94	11.91	2	3	2.02	2.51	1.98	0.095	218	0.34	127	43	0.086
GXR-6 cert	1.3	(1	<u>66</u>	<u>1008</u>	2.4	<u>27</u>	<u>101</u>	<u>118</u>	<u>17.68</u>	1.4	(.29	<u>0.179</u>	<u>1.87</u>	<u>0.61</u>	<u>0.035</u>	<u>35</u>	<u>0.498</u>	<u>186</u>	<u>14</u>	0.016
GXR-6	0.8	-0.3	69	1077	5	23	114	122	19.84	1	-2	0.26	2.16	0.98	0.064	75	0.50	183	30	0.019
GXR-2 cert	17	4.1	<u>76</u>	<u>1008</u>	(2.1	21	<u>690</u>	<u>530</u>	<u>16.46</u>	1.7	(.69	<u>0.929</u>	<u>1.37</u>	<u>0.85</u>	<u>0.105</u>	<u>160</u>	<u>0.3</u>	<u>52</u>	<u>17</u>	0.031
GXR-2	16.5	2.1	74	830	1	18	704	502	7.83	2	-2	0.66	1.08	0.67	0.064	163	0.28	51	9	0.024
GXR-1 cert	31	3.3	<u>1110</u>	<u>853</u>	18	41	<u>730</u>	<u>760</u>	<u>3.52</u>	1.22	<u>1380</u>	<u>0.958</u>	<u>0.05</u>	<u>0.22</u>	<u>0.065</u>	<u>275</u>	<u>0.036</u>	<u>80</u>	<u>32</u>	0.257
GXR-1	30.7	2.7	1190	1045	22	45	827	733	1.52	1	1079	1.01	0.05	0.21	0.065	422	0.02	90	41	0.286
GXR-4 cert	4	(.86	<u>6520</u>	<u>155</u>	<u>310</u>	<u>42</u>	<u>52</u>	<u>73</u>	<u>7.20</u>	1.9	19	1.01	4.01	1.66	0.120	221	0.29	87	14	1.770
GXR-4	3.1	0.4	5623	144	307	36	52	68	6.23	2	16	1.02	3.51	1.67	0.133	275	0.18	82	16	1.974

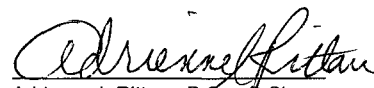
Note: Certificate data underlined are recommended values; other values are proposed except those preceded by a "(" which are information values.
Barite, gahnite, chromite, cassiterite, zircon, sphene, magnetite, and sulphates may not be totally dissolved.

Activation Laboratories Ltd. Work Order No. 24478 Report No. 24277C

SAMPLE	SiO2	Al2O3	Fe2O3	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	TOTAL	Ba	Sr	Y	Sc	Zr	Be	V
	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
M-17.11	49.52	13.68	14.75	0.202	6.68	6.22	2.67	1.89	1.263	0.13	3.32	100.32	557	112	25	43	76	-1	268
SY3 CERT	<u>59.62</u>	<u>11.75</u>	<u>6.49</u>	<u>0.32</u>	<u>2.67</u>	<u>8.26</u>	<u>4.12</u>	<u>4.23</u>	<u>0.15</u>	<u>0.54</u>	1.16		450	<u>302</u>	<u>718</u>	6.8	<u>320</u>	20	50 syenite
SY-3/C	59.50	11.64	6.38	0.324	2.64	8.27	4.13	4.25	0.142	0.54			431	310	718	9	331	21	50
NIST 694 CERT	<u>11.20</u>	<u>1.80</u>	<u>0.79</u>	<u>0.01</u>	<u>0.33</u>	<u>43.60</u>	<u>0.86</u>	<u>0.51</u>	0.11	<u>30.20</u>									<u>1736</u> western phosphate rock
NIST 694/C	10.71	1.90	0.72	0.011	0.33	41.87	0.91	0.59	0.116	28.53			111	961	150	3	100	2	1537
W-2 CERT	<u>52.44</u>	<u>15.35</u>	<u>10.74</u>	<u>0.163</u>	<u>6.37</u>	<u>10.87</u>	<u>2.14</u>	<u>0.627</u>	<u>1.06</u>	<u>0.131</u>	0.60		<u>182</u>	<u>194</u>	<u>24</u>	<u>35</u>	<u>94</u>	1.3	262 diabase
W-2/C	53.49	15.37	10.75	0.165	6.39	10.95	2.28	0.69	1.069	0.15			169	198	20	36	88	1	263
DNC-1 CERT	<u>47.04</u>	<u>18.30</u>	<u>9.93</u>	<u>0.149</u>	<u>10.05</u>	<u>11.27</u>	<u>1.87</u>	<u>0.229</u>	<u>0.48</u>	0.085	0.60		<u>114</u>	<u>145</u>	<u>18</u>	<u>31</u>	<u>41</u>	1	148 dolerite
DNC-1/C	46.90	18.35	8.14	0.145	10.08	11.20	1.94	0.27	0.479	0.06			101	144	15	31	35	-1	139
BIR-1 CERT	<u>47.77</u>	<u>15.35</u>	<u>11.26</u>	<u>0.171</u>	<u>9.68</u>	<u>13.24</u>	<u>1.75</u>	0.027	0.96	0.05			7.7	<u>108</u>	<u>16</u>	<u>44</u>	22	0.58	313 basalt
BIR-1/C	48.23	15.61	11.31	0.170	9.65	13.22	1.87	0.03	0.963	0.03			7	109	14	43	15	-1	322
G-2 CERT	<u>69.08</u>	<u>15.35</u>	<u>2.66</u>	<u>0.032</u>	<u>0.75</u>	<u>1.96</u>	<u>4.08</u>	<u>4.48</u>	<u>0.48</u>	<u>0.14</u>			<u>1882</u>	<u>478</u>	<u>11</u>	<u>3.5</u>	<u>309</u>	<u>2.5</u>	36 granite
G-2/C	69.43	15.27	2.58	0.032	0.75	1.93	4.10	4.39	0.476	0.14			1889	482	10	4	308	2	34
NBS 1633b CERT	<u>49.24</u>	<u>28.43</u>	<u>11.13</u>	<u>0.020</u>	<u>0.799</u>	<u>2.11</u>	<u>0.271</u>	2.26	<u>1.32</u>	0.53			<u>709</u>	<u>1041</u>		41			296 fly ash
NBS 1633b/C	49.14	28.43	11.09	0.017	0.91	2.12	0.33	2.29	1.262	0.53			691	1041	88	40	170	12	290
STM-1 CERT	<u>59.64</u>	<u>18.39</u>	<u>5.22</u>	<u>0.22</u>	<u>0.101</u>	<u>1.09</u>	<u>8.94</u>	<u>4.28</u>	<u>0.135</u>	<u>0.158</u>			560	<u>700</u>	<u>46</u>	<u>0.61</u>	<u>1210</u>	9.6 (8.7	syenite
STM-1/C	59.94	18.30	5.15	0.220	0.09	1.13	8.83	4.31	0.129	0.17			586	715	43	1	1209	9	-5
IF-G CERT	<u>41.20</u>	<u>0.15</u>	<u>55.85</u>	<u>0.042</u>	<u>1.89</u>	<u>1.55</u>	<u>0.032</u>	<u>0.012</u>	<u>0.014</u>	<u>0.063</u>			1.5	3	9	0.38	2.4	4.7	4 iron form sample
IF-G/C	39.57	0.12	57.54	0.035	1.90	1.50	0.06	0.04	0.006	0.06			4	4	8	-1	12	4	-5
FK-N CERT	<u>65.02</u>	<u>18.61</u>	<u>0.09</u>	<u>0.005</u>	<u>0.01</u>	<u>0.11</u>	<u>2.58</u>	<u>12.81</u>	<u>0.02</u>	<u>0.02</u>			<u>200</u>	<u>39</u>	0.3	0.05	13	1	3 K-feldspar
FK-N/C	64.60	18.46	0.08	0.003	0.01	0.10	2.57	12.79	0.006	0.02			197	38	-1	-1	2	1	-5

Note: Certificate data underlined are recommended values; other values are proposed except those preceded by a "(" which are information values.

Note: The Fe2O3 for the standards is Total Fe2O3 and has not been adjusted for the FeO.


 Adrienne I. Rittau, B.Sc., C.Chem
 ICP Technical Manager

APPENDIX D

REPORT ON GRAVITY SURVEY



MWH
Geo-Surveys
Ltd.

Logistical Summary
Gravity Survey; Monster Copper, Yukon

for Monster Copper Resources Limited

MWH Geo-Surveys Ltd.
September 2001

INTRODUCTION:

From July 31 to August 16, 2001, MWH Geo-Surveys Ltd. carried out a gravity survey on Monster Copper properties in the Yukon Territories at the request of Monster Copper Resources Inc. The positional survey associated with this project was carried out by a differential post-processed GPS survey. Gravity stations were accessed on foot with limited helicopter support.

PROJECT SCHEDULE:

The following is the project timeline.

- Mobilization to Dawson City, Yukon: July 31, August 1
- Start of Production: August 2
- Completion of surveys: August 15
- Demobilization: August 16

A total of 172 unique stations and 10 repeats were occupied during thirteen production days.

FIELD OPERATIONS:

Survey Personnel: The personnel involved on this project were:

- | | |
|------------------|------------------|
| • Rob Patrick | Gravity surveyor |
| • Kaolin Pickett | GPS surveyor |
| • Kevin MacNabb | Data processing |

Instrumentation: The gravity meter used on this project was a LaCoste & Romberg Model G gravity meter; serial number 689. The positional survey was conducted using Ashtech Z Surveyor dual frequency GPS receivers.

Field Procedures, Gravity: All gravity readings were taken within closed loops to allow for correction of instrument drift. A gravity base station was established at the field camp after base ties from the IGSN base in Dawson City (9378-1978 value 982,076.911).

Approximately 6 per cent of the gravity stations (10 stations) were repeated on these surveys with an average repeatability .030 milligals.

Field Procedures, GPS Surveying: Gravity stations were positioned by a differentially corrected GPS survey. The GPS survey technique was rapid static observations from two static base stations. The base station receivers were mounted on tripods and the rover gps receiver was carried by backpack. The data rate was 2-second epochs.

DATA REDUCTION and INTEGRITY:

Gravity: The L&R meter data was converted to milligals using the appropriate meter variables. Additional corrections were made for the tides, drift between base ties and an adjustment to the IGSN base value. The results from these calculations are listed as Observed Gravity. The Observed Gravity values were corrected to Bouguer Gravity using the following formula:

$$g_B = g_{obs} - \gamma + (.3086 \times h) - (.04193\rho \times h) + dg_T$$

where:

g_B = Bouguer Gravity

g_{obs} = Observed Gravity

γ = Theoretical Gravity

dg_T = Terrain correction

h = Station elevation metres

ρ = Density gm/cc

There are several theoretical gravity formulae available. We have used the most recently published formula (1998) from The United States National Imagery and Mapping Agency (NIMA). According to this new formula, the theoretical gravity (γ) obtained from the gravity field of the WGS84 reference ellipsoid is

$$\gamma = (978032.53359) \left(\frac{1 + 0.00193185265241 \sin^2(\phi)}{\sqrt{1 - 0.00669437999014 \sin^2(\phi)}} \right) \text{ milligals}$$

where (ϕ) is the geodetic latitude. Using this formula requires a small Atmospheric Gravity Correction (δ) because the WGS84 Earth's gravitational constant includes the mass of the atmosphere. This correction is given by

$$\delta = 0.87e^{-0.118 \left[\left(\frac{h}{1000} \right)^{1.047} \right]}$$

where h is the elevation with respect to sea level.

Bouguer gravity data was calculated using densities of 2.3, 2.5 and 2.67 gm/cc.

Terrain Corrections: The terrain observations are made by the operator in the field, using an optical inclinometer. Slope measurements are made in four sectors of Hammer Zone B (2.0 - 16.5 metres), six sectors of Zone C (16.5 - 53.3 metres) and six sectors of Zone D (53.3 -

170.0 metres). The measured slope is used with the sector midpoint distance to compute a vertical difference. Then using the standard formula for the gravitational attraction of a vertical hollow cylinder:

$$g = 2\pi\gamma\delta [R_2 - R_1 + \sqrt{R_1^2 + h^2} - \sqrt{R_2^2 + h^2}]$$

where:

g = terrain correction in milligals

γ = gravitational constant

δ = density

R_1 = inner zone radius

R_2 = outer zone radius

h = height of cylinder

correction in milligals is calculated for each zone sector.

The listed terrain corrections are computed using a density of 2.0 gm/cc. During bouguer calculations, the terrain correction density is scaled to match the bouguer density.

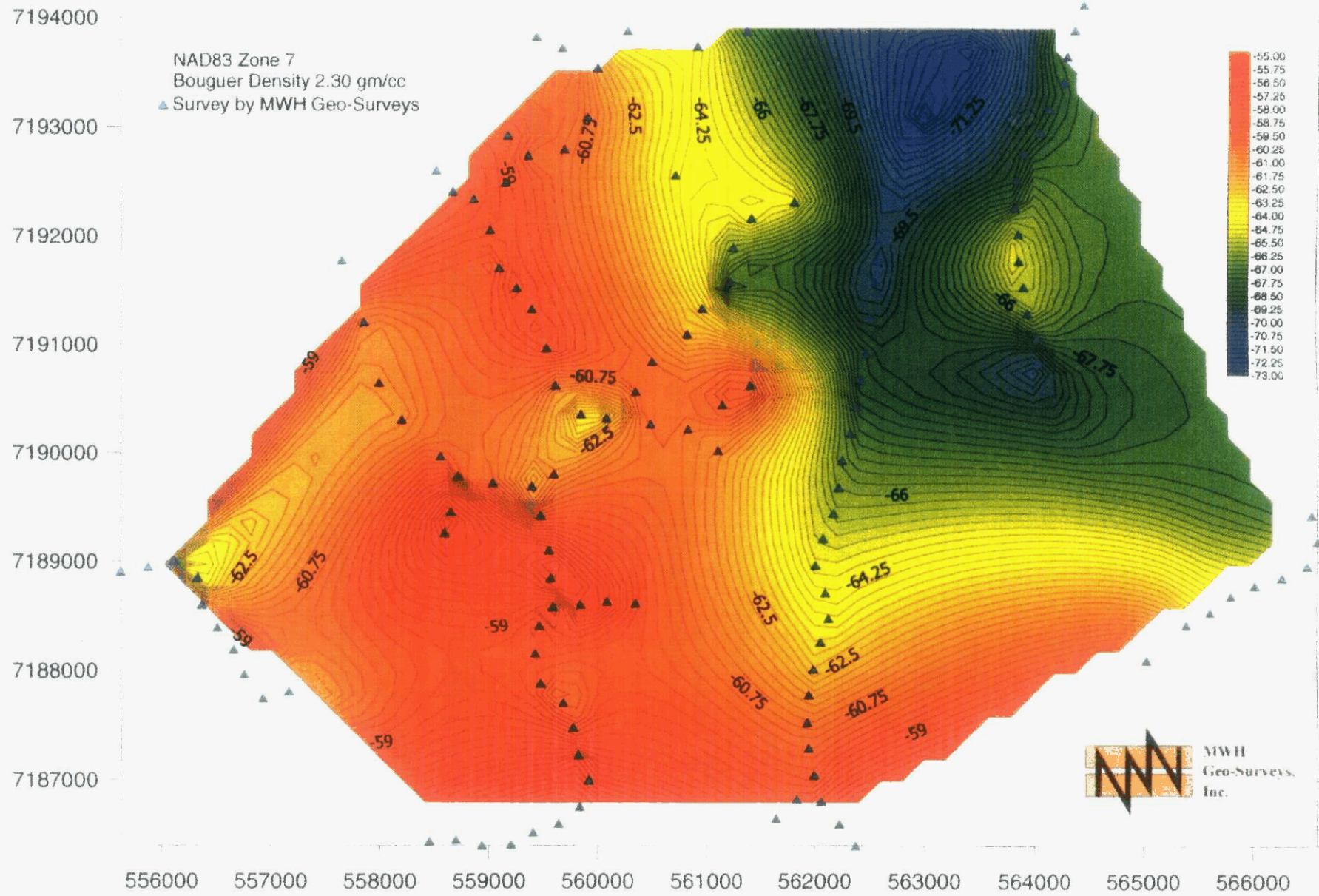
GPS Surveying: Our GPS data was downloaded into Ashtech's Office Suite for Survey (AOSS) version 2.11 processing software daily. All data was recorded at 2-second data intervals with an elevation mask angle of 10 degrees.

In the absence of local survey control, the absolute positional control was derived from single point solutions of the gps base station data. Once the position of the gps bases were established, those points were fixed and all rover observations were processed relative to them. Two base stations were utilized and both base - rover solutions were analyzed and adjusted in a least squares adjustment.

SUMMARY:

There were no technical or logistical problems during the course of this survey. The high accuracy of the gravity measurements and surveyed positions will yield a reliable data set from which geophysical decisions may be based.

Monster Copper Resources Inc.



Appendix I

- ✓ Site Map & Bouguer Gravity Contours
 - ✓ Data Listing
- ✓ GPS Receiver Specifications
- ✓ Gravity Meter Specifications
- ✓ Horizontal & Vertical Reference Information



MWH
Geo-Surveys,
Inc.

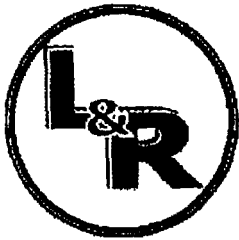
GRAVITY SURVEY: Monster Project, Yukon
for Monster Copper Resources Inc.

Boug density #1:	2.30	unique stations:	172
Boug density #2:	2.50	repeats:	10
Boug density #3:	2.67	avg repeatability:	0.030

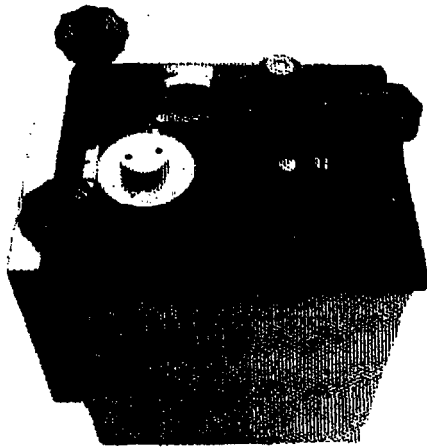
1	1	rp01214	11.47	689	5307.31	0.67	0.030	5400.76	981,845.934	0.17	0.43	1.24	1.94	982280.444	1711.29	561954.2	7194308.3	-69.32	-83.49	-95.53
1	2	rp01214	12.17	689	5298.51	0.63	0.037	5391.80	981,836.873	0.11	0.20	0.72	1.03	982280.398	1755.59	561633.1	7194235.2	-69.78	-84.40	-96.82
1	3	rp01214	12.41	689	5306.55	0.75	0.042	5400.03	981,845.195	0.13	0.29	1.08	1.50	982280.186	1726.16	561374.6	7193886.6	-67.04	-81.37	-93.55
1	4	rp01214	13.10	689	5318.13	0.74	0.045	5411.81	981,856.973	0.12	0.23	0.65	0.99	982280.107	1688.63	560917.6	7193745.4	-63.73	-77.79	-89.74
1	5	rp01214	13.50	689	5296.63	0.69	0.046	5389.92	981,835.084	0.06	0.19	0.87	1.12	982280.194	1786.09	560273.5	7193885.9	-64.88	-79.75	-92.39
1	6	rp01214	14.11	689	5311.09	0.69	0.046	5404.63	981,849.794	0.02	0.08	0.47	0.58	982279.991	1733.79	559996.8	7193549.3	-61.69	-76.18	-88.49
1	7	rp01214	14.35	689	5335.24	0.74	0.044	5429.21	981,874.374	0.00	0.04	0.47	0.51	982280.118	1632.62	559675.5	7193730.2	-58.78	-72.42	-84.02
1	8	rp01214	14.51	689	5324.02	0.72	0.041	5417.79	981,862.951	0.04	0.19	0.98	1.20	982280.181	1669.00	559440.6	7193831.5	-61.76	-75.63	-87.43
1	9	rp01214	15.53	689	5318.31	0.70	0.027	5411.96	981,857.119	0.05	0.15	0.67	0.87	982279.712	1702.04	559906.8	7193097.3	-60.49	-74.67	-86.73
1	10	rp01214	16.20	689	5313.95	0.75	0.018	5407.53	981,852.688	0.07	0.19	0.95	1.21	982279.530	1721.38	559694.1	7192804.5	-60.23	-74.55	-86.72
1	11	rp01214	16.51	689	5313.19	0.67	0.008	5406.72	981,851.880	0.05	0.10	0.58	0.74	982279.496	1726.68	559361.9	7192744.9	-60.44	-74.84	-87.09
1	12	rp01215	10.13	689	5313.24	0.69	-0.016	5406.76	981,851.905	0.05	0.10	0.58	0.74	982279.496	1726.68	559361.9	7192744.9	-60.41	-74.82	-87.06
1	13	rp01215	10.35	689	5330.15	0.65	-0.008	5423.95	981,869.101	0.02	0.06	0.45	0.53	982279.621	1654.93	559171.1	7192929.7	-58.80	-72.63	-84.38
1	14	rp01215	11.04	689	5320.05	0.70	0.002	5413.70	981,858.846	0.06	0.13	0.60	0.78	982279.344	1700.91	559150.7	7192494.8	-58.74	-72.92	-84.98
1	15	rp01215	11.35	689	5341.56	0.53	0.013	5435.54	981,880.683	0.09	0.17	0.61	0.87	982279.306	1601.74	558668.4	7192410.8	-57.79	-71.14	-82.48
1	16	rp01215	11.50	689	5351.85	0.65	0.018	5446.05	981,891.191	0.04	0.04	0.31	0.40	982279.432	1554.21	558517.0	7192601.5	-58.04	-71.04	-82.08
1	17	rp01215	12.48	689	5327.08	0.54	0.033	5420.84	981,865.965	0.13	0.18	0.71	1.02	982279.258	1667.45	558858.1	7192346.7	-58.35	-72.23	-84.03
1	18	rp01215	16.18	689	5445.42	0.65	0.024	5541.24	981,986.337	0.02	0.04	0.10	0.16	982279.600	1043.87	562768.8	7192879.8	-71.60	-80.34	-87.77
1	19	rp01215	16.41	689	5448.12	0.63	0.017	5543.98	981,989.068	0.03	0.02	0.09	0.13	982279.734	1024.55	562977.2	7193095.6	-73.14	-81.72	-89.01
1	20	rp01215	17.04	689	5448.97	0.55	0.009	5544.81	981,989.895	0.02	0.01	0.06	0.10	982279.871	1023.95	563195.2	7193317.5	-72.62	-81.20	-88.49
1	21	rp01215	17.22	689	5450.13	0.49	0.003	5545.97	981,991.048	0.06	0.04	0.10	0.20	982280.032	1017.60	563324.8	7193576.5	-72.86	-81.37	-88.61
1	22	rp01215	17.33	689	5452.01	0.43	-0.001	5547.86	981,992.937	0.02	0.04	0.09	0.15	982280.150	1008.57	563428.4	7193766.6	-73.07	-81.51	-88.69
1	23	rp01216	12.40	689	5318.07	0.65	0.016	5411.69	981,856.734	0.13	0.28	0.92	1.33	982279.076	1706.87	559011.8	7192064.3	-58.68	-72.86	-84.92
1	24	rp01216	13.22	689	5306.51	0.67	0.025	5399.94	981,844.987	0.08	0.14	0.62	0.83	982278.850	1756.98	559091.5	7191713.5	-60.14	-74.79	-87.25
1	25	rp01216	13.36	689	5315.34	0.66	0.028	5408.93	981,853.968	0.03	0.06	0.33	0.42	982278.737	1726.45	559247.9	7191532.0	-58.00	-72.44	-84.71
1	26	rp01216	14.01	689	5299.29	0.67	0.031	5392.60	981,837.643	0.09	0.21	0.63	0.94	982278.609	1795.76	559393.3	7191340.1	-58.90	-73.87	-86.59
1	27	rp01216	14.33	689	5292.04	0.48	0.033	5385.17	981,830.209	0.12	0.23	0.75	1.11	982278.378	1831.46	559528.5	7190978.3	-58.33	-73.58	-86.54
1	28	rp01216	15.02	689	5272.49	0.59	0.033	5365.31	981,810.350	0.12	0.17	0.66	0.95	982278.152	1908.10	559607.2	7190630.6	-61.89	-77.80	-91.32
1	29	rp01218	11.26	689	5260.52	0.66	-0.041	5353.08	981,798.104	0.05	0.19	1.01	1.26	982277.976	1950.92	559844.0	7190360.7	-64.52	-80.75	-94.55
1	30	rp01219	17.50	689	5260.69	0.62	-0.018	5353.27	981,798.127	0.05	0.19	1.01	1.26	982277.976	1950.92	559844.0	7190360.7	-64.50	-80.73	-94.53
1	31	rp01222	17.15	689	5260.73	0.65	-0.052	5353.28	981,798.134	0.05	0.19	1.01	1.26	982277.976	1950.92	559844.0	7190360.7	-64.49	-80.72	-94.52
1	32	rp01216	15.30	689	5260.47	0.73	0.031	5353.13	981,798.162	0.05	0.19	1.01	1.26	982277.976	1950.92	559844.0	7190360.7	-64.46	-80.70	-94.50
1	33	rp01218	11.52	689	5265.27	0.70	-0.035	5357.94	981,802.952	0.16	0.39	1.35	1.91	982277.954	1924.90	560078.8	7190325.9	-64.42	-80.37	-93.93
1	34	rp01216	16.21	689	5265.27	0.69	0.022	5357.99	981,803.020	0.16	0.39	1.35	1.91	982277.954	1924.90	560078.8	7190325.9	-64.35	-80.31	-93.86
1	35	rp01216	17.04	689	5290.58	0.71	0.011	5383.73	981,828.763	0.23	0.48	1.54	2.25	982278.115	1819.27	560347.6	7190574.0	-60.78	-75.81	-88.59
1	36	rp01217	16.55	689	5290.59	0.72	0.011	5383.75	981,828.775	0.23	0.48	1.54	2.25	982278.115	1819.27	560347.6	7190574.0	-60.77	-75.80	-88.58
1	37	rp01216	17.44	689	5303.35	0.60	-0.002	5396.68	981,841.708	0.15	0.39	1.09	1.63	982278.292	1764.17	560499.0	7190851.0	-60.42	-75.05	-87.49
1	38	rp01217	11.24	689	5368.78	0.69	-0.026	5463.25	981,908.255	0.15	0.40	1.46	2.01	982279.227	1434.55	561807.5	7192322.9	-64.31	-76.14	-86.19
1	39	rp01217	12.18	689	5336.65	0.56	-0.009	5430.57	981,875.581	0.10	0.27	1.22	1.59	982279.124	1591.47	561414.4	7192172.6	-64.07	-77.26	-88.46
1	40	rp01217	13.11	689	5310.55	0.68	0.006	5404.94	981,849.054	0.10	0.40	1.33	1.82	982278.949	1704.42	561240.8	7191906.1	-66.19	-80.30	-92.29
1	41	rp01217	14.07	689	5291.44	0.69	0.017	5384.61	981,829.628	0.21	0.50	1.47	2.19	982278.743	1783.54	561212.2	7191588.1	-68.20	-82.94	-95.47
1	42	rp01217	15.03	689	5302.61	0.47	0.022	5395.91	981,840.934	0.11	0.19	0.76	1.06	982278.594	1758.94	560958.1	7191341.3	-63.26	-77.91	-90.36
1	43	rp01217	15.40	689	5304.38	0.55	0.021	5397.74	981,842.760	0.13	0.28	1.13	1.53	982278.448	1748.89	560819.0	7191104.4	-62.88	-77.39	-89.73
1	44	rp01218	12.31	689	5303.38	0.64	-0.023	5396.70	981,841.710	0.03	0.19	0.79	1.01	982277.930	1767.38	560486.5	7190273.5	-60.08	-74.80	-87.32
1	45	rp01218	12.58	689	5309.04	0.77	-0.018	5402.51	981,847.509	0.08	0.25	0.86	1.18	982277.900	1732.90	560827.8	7190228.4	-61.38	-75.79	-88.04
1	46	rp01218	13.37	689	5326.03	0.62	-0.006	5419.76	981,864.749	0.19	0.43	1.33	1.95	982277.781	1645.43	561099.5	7190030.8	-61.69	-75.29	-86.86
1	47	rp01218	14.17	689	5334.48	0.61	0.001	5428.36	981,873.340	0.13	0.34	1.14	1.61	982278.047	1618.66	561138.8	7190452.0	-59.44	-72.85	-84.25
1	48	rp01218	14.40	689	5361.83	0.60	0.005	5456.18	981,901.160	0.04	0.20	0.87	1.12							

1	59	rp01221	9.23	689	5436.80	0.53	-0.058	5532.36	981,977.256	0.01	0.03	0.05	0.09	982278.579	1091.95	562496.9	7191251.1	-69.54	-78.69	-86.47
1	60	rp01221	9.50	689	5435.10	0.56	-0.059	5530.64	981,975.535	0.02	0.02	0.08	0.11	982278.225	1103.85	562408.0	7190686.6	-68.37	-77.61	-85.47
1	61	rp01221	10.01	689	5435.49	0.54	-0.059	5528.99	981,973.890	0.04	0.05	0.14	0.24	982278.069	1113.58	562369.6	7190438.6	-67.65	-76.96	-84.88
1	62	rp01221	10.14	689	5431.84	0.62	-0.059	5527.34	981,972.236	0.07	0.08	0.14	0.29	982277.914	1123.25	562311.9	7190190.8	-67.04	-76.43	-84.41
1	63	rp01221	10.53	689	5431.71	0.66	-0.059	5527.22	981,972.116	0.04	0.03	0.13	0.20	982277.760	1125.88	562236.4	7189944.3	-66.54	-75.96	-83.97
1	64	rp01221	11.14	689	5430.81	0.59	-0.059	5526.28	981,971.178	0.02	0.01	0.06	0.09	982277.601	1132.53	562206.1	7189691.5	-66.04	-75.52	-83.59
1	65	rp01221	11.27	689	5430.78	0.64	-0.058	5526.27	981,971.163	0.00	0.01	0.14	0.15	982277.451	1133.28	562159.9	7189450.4	-65.67	-75.16	-83.23
1	66	rp01221	11.39	689	5429.96	0.77	-0.058	5525.47	981,970.369	0.00	0.01	0.04	0.05	982277.307	1138.06	562069.1	7189219.6	-65.43	-74.97	-83.07
1	67	rp01221	11.59	689	5429.08	0.67	-0.057	5524.55	981,969.444	0.00	0.00	0.05	0.05	982277.150	1145.20	562003.2	7188969.0	-64.69	-74.29	-82.44
1	68	rp01221	12.16	689	5428.57	0.72	-0.055	5524.05	981,968.941	0.00	0.00	0.02	0.02	982276.991	1148.43	562088.6	7188718.5	-64.38	-74.00	-82.19
1	69	rp01221	12.29	689	5427.63	0.71	-0.055	5523.09	981,967.982	0.00	0.00	0.01	0.01	982276.843	1154.53	562116.8	7188484.0	-63.90	-73.58	-81.81
1	70	rp01221	12.41	689	5427.47	0.62	-0.054	5522.90	981,967.793	0.00	0.00	0.01	0.02	982276.708	1157.60	562047.2	7188267.3	-63.30	-73.00	-81.25
1	71	rp01221	12.56	689	5426.90	0.71	-0.053	5522.35	981,967.241	0.00	0.01	0.01	0.02	982276.554	1161.30	561986.4	7188020.9	-62.90	-72.64	-80.92
1	72	rp01221	13.13	689	5426.58	0.70	-0.051	5522.02	981,966.914	0.00	0.00	0.00	0.00	982276.406	1167.30	561946.8	7187784.8	-61.83	-71.62	-79.94
1	73	rp01221	13.25	689	5425.78	0.63	-0.050	5521.19	981,966.080	0.00	0.00	0.00	0.00	982276.246	1174.32	561933.2	7187531.3	-61.02	-70.87	-79.24
1	74	rp01221	13.47	689	5425.24	0.68	-0.047	5520.66	981,965.548	0.00	0.02	0.02	0.03	982276.098	1179.60	561948.3	7187296.3	-60.25	-70.14	-78.55
1	75	rp01221	14.02	689	5424.37	0.63	-0.046	5519.76	981,964.648	0.00	0.00	0.01	0.02	982275.944	1185.36	561997.8	7187051.9	-59.79	-69.73	-78.18
1	76	rp01221	14.21	689	5422.37	0.68	-0.044	5517.74	981,962.631	0.02	0.03	0.06	0.10	982275.804	1198.97	561839.1	7186827.3	-58.68	-68.73	-77.26
1	77	rp01221	14.34	689	5418.56	0.61	-0.043	5513.84	981,958.734	0.01	0.14	0.30	0.45	982275.694	1215.75	561644.3	7186651.7	-58.51	-68.64	-77.29
1	78	rp01221	14.55	689	5422.81	0.50	-0.042	5518.13	981,963.024	0.00	0.00	0.02	0.02	982275.755	1197.58	562057.7	7186802.1	-58.66	-68.70	-77.23
1	79	rp01221	15.09	689	5417.99	0.55	-0.040	5513.25	981,958.138	0.04	0.08	0.20	0.33	982275.685	1225.61	562219.4	7186602.5	-57.11	-67.36	-76.06
1	80	rp01221	15.26	689	5413.20	0.57	-0.039	5508.38	981,953.272	0.00	0.01	0.13	0.13	982275.523	1256.41	562368.5	7186399.9	-55.54	-66.06	-75.00
1	81	rp01222	8.51	689	5351.03	0.56	-0.041	5445.13	981,890.029	0.05	0.12	0.82	0.98	982275.572	1550.30	558451.3	7186442.9	-55.51	-68.41	-79.38
1	86	rp01222	9.11	689	5356.53	0.66	-0.042	5450.76	981,895.651	0.10	0.25	0.85	1.20	982275.578	1526.41	558694.1	7186452.8	-54.70	-67.38	-78.16
1	87	rp01222	9.25	689	5359.84	0.75	-0.044	5454.15	981,899.044	0.11	0.27	0.95	1.33	982275.544	1509.98	558932.9	7186401.8	-54.61	-67.14	-77.79
1	88	rp01222	9.38	689	5361.45	0.66	-0.044	5455.76	981,900.652	0.09	0.22	0.77	1.08	982275.547	1504.56	559199.1	7186409.8	-54.44	-66.95	-77.58
1	89	rp01222	10.00	689	5358.77	0.63	-0.045	5453.02	981,897.913	0.08	0.25	0.80	1.14	982275.614	1521.22	559404.9	7186523.6	-53.65	-66.30	-77.04
1	90	rp01222	10.15	689	5351.30	0.66	-0.047	5445.43	981,890.320	0.11	0.21	0.65	0.97	982275.656	1558.06	559640.3	7186601.0	-53.67	-66.63	-77.66
1	91	rp01222	10.37	689	5330.59	0.60	-0.048	5424.35	981,869.232	0.16	0.33	1.05	1.54	982275.742	1646.42	559835.2	7186755.0	-55.44	-69.09	-80.69
1	92	rp01222	11.02	689	5317.86	0.68	-0.049	5411.42	981,856.302	0.06	0.16	0.71	0.93	982275.892	1704.15	559917.0	7187003.1	-56.97	-71.16	-83.23
1	93	rp01222	11.21	689	5315.36	0.60	-0.050	5408.85	981,853.732	0.10	0.24	0.77	1.11	982276.036	1717.69	559823.0	7187232.7	-56.60	-70.90	-83.05
1	94	rp01222	11.40	689	5299.34	0.70	-0.051	5392.58	981,837.462	0.05	0.26	0.87	1.18	982276.118	1777.60	559773.5	7187482.5	-60.23	-75.02	-87.59
1	95	rp01222	12.10	689	5294.43	0.70	-0.052	5387.59	981,832.462	0.18	0.35	1.10	1.63	982276.330	1794.45	559663.5	7187710.4	-61.28	-76.17	-88.82
1	96	rp01222	12.32	689	5299.88	0.65	-0.052	5393.11	981,837.990	0.15	0.23	0.80	1.17	982276.448	1777.69	559479.8	7187891.8	-59.95	-74.74	-87.31
1	97	rp01222	12.54	689	5305.40	0.64	-0.052	5398.73	981,843.603	0.15	0.34	1.05	1.53	982276.621	1753.15	559427.2	7188162.9	-59.31	-73.86	-86.23
1	98	rp01222	13.17	689	5302.80	0.64	-0.052	5396.08	981,840.955	0.21	0.39	1.18	1.78	982276.779	1761.46	559467.3	7188416.8	-60.06	-74.65	-87.06
1	99	rp01222	13.45	689	5302.37	0.62	-0.052	5395.64	981,840.510	0.10	0.26	1.09	1.46	982276.884	1767.72	559589.5	7188587.3	-59.66	-74.34	-86.81
1	100	rp01222	14.03	689	5319.02	0.65	-0.052	5412.59	981,857.454	0.12	0.29	0.79	1.20	982276.900	1701.06	559842.3	7188608.8	-57.17	-71.32	-83.34
1	101	rp01222	14.15	689	5324.71	0.64	-0.052	5418.37	981,863.238	0.12	0.24	0.74	1.10	982276.918	1674.01	560084.6	7188638.3	-57.26	-71.18	-83.02
1	102	rp01222	14.31	689	5319.07	0.63	-0.051	5412.63	981,857.498	0.12	0.32	1.09	1.53	982276.904	1688.23	560349.2	7188623.1	-59.47	-73.48	-85.02
1	103	rp01222	15.16	689	5317.64	0.73	-0.051	5411.21	981,856.070	0.09	0.24	0.84	1.17	982277.055	1711.65	559569.0	7188852.7	-56.49	-70.73	-82.83
1	104	rp01222	15.34	689	5312.54	0.67	-0.051	5406.00	981,850.862	0.06	0.19	0.89	1.13	982277.123	1735.61	559553.3	7189107.5	-56.82	-71.26	-83.54
1	105	rp01222	16.10	689	5281.13	0.63	-0.050	5374.03	981,818.890	0.08	0.17	0.85	1.10	982277.404	1867.94	559476.4	7189429.3	-60.95	-76.50	-89.73
1	106	rp01222	16.41	689	5272.35	0.69	-0.051	5365.12	981,809.973	0.10	0.24	0.79	1.13	982277.639	1906.24	559595.8	7189811.8	-61.94	-77.81	-91.30
1	107	rp01223	9.49	689	5406.71	0.65	-0.026	5501.82	981,946.671	0.07	0.18	0.66	0.91	982280.343	1253.41	564454.7	7194133.3	-66.70	-77.12	-85.98
1	108	rp01223	10.06	689	5396.45	0.65	-0.027	5491.38	981,936.234	0.11	0.25	0.76	1.12	982280.191	1301.35	564372.6	7193896.4	-66.57	-77.38	-86.56
1	109	rp01223	10.24	689	5382.33	0.63	-0.028	5477.01	981,921.864	0.13	0.34	1.06	1.53	982280.038	1365.84	564302.1	7193658.9	-66.64	-77.94	-87.55
1	110	rp01223	10.49	689	5363.64	0.66	-0.031	5458.00	981,902.859	0.10	0.24	0.87	1.21	982279.880	1449.78	564262.6	7193419.1	-68.04	-80.08	-90.31
1	111	rp01223	11.08	689	5352.07	0.66	-0.033	5446.23	981,891.090	0.13	0.28	1.03	1.43	982279.728	1502.21	564130.4	7193180.2	-68.28	-80.73	-91.32
1	112	rp01223	11.24	689	5344.89	0.59	-0.034	5438.90	981,883.764	0.18	0.33	0.97	1.48	982279.590	1535.04	564043.0	7192962.9	-68.45	-81.18	-91.99
1	113	rp01223	11.49	689	5341.36	0.56	-0.037	5435.30	981,880.162	0.19	0.38	1.10	1.67	982279.465	1552.83	563893.9	7192763.2	-67.93	-80.79	-91.71
1	114	rp01223	12.05	689	5333.16	0.62	-0.039	5426.98	981,871.840	0.17	0.38	1.07	1.62	982279.317	1589.61	563823.9	7192530.4	-68.36	-81.53	-92.72
1	115	rp01223	12.23	689	5327.76	0.63	-0.040	5421.48	981,866.349	0.15	0.36	1.13	1.64	982279.157	1619.68	563813.4	7192272.4	-67.29	-80.71	-92.11
1	116	rp01223	12.16	689	5338.24	0.61	-0.040	5432.14	981,877.004	0.12	0.29	0.87	1.28	982279.003	1586.28	563843.4	7192029.3	-63.98	-77.16	-88.36
1	117	rp01223	13.02	689	5333.73	0.62	-0.044	5427.55	981,872.420	0.15	0.36	1.02	1.52	982278.846	1603.84	563848.2	7191781.8	-6		

1	152	rp01225	9.59	689	5343.21	0.67	0.014	5437.27	981,882.214	0.17	0.33	0.86	1.36	982276.817	1581.45	556514.0	7188394.2	-57.57	70.65	-81.81
1	153	rp01225	10.12	689	5359.10	0.60	0.014	5453.41	981,898.358	0.11	0.28	0.86	1.24	982276.694	1508.33	556662.5	7188191.1	-56.90	-69.42	-80.07
1	154	rp01225	10.29	689	5379.34	0.65	0.014	5474.02	981,918.963	0.14	0.26	0.89	1.28	982276.561	1412.39	556761.5	7187966.8	-56.47	-68.18	-78.14
1	155	rp01225	11.07	689	5412.59	0.53	0.012	5507.80	981,952.750	0.20	0.38	0.83	1.41	982276.439	1246.37	556933.7	7187750.4	-57.64	-67.95	-76.72
1	156	rp01225	11.41	689	5427.90	0.67	0.009	5523.41	981,968.363	0.06	0.20	0.62	0.89	982276.484	1153.87	557171.6	7187813.5	-62.30	-71.89	-80.04
1	2000	rp01224	18.45	689	5405.08	0.56	-0.078	5500.08	981,945.007	0.00	0.01	0.04	0.05	982279.407	1273.61	560710.4	7192563.2	-64.13	-74.81	-83.88
1	2000	rp01217	8.57	689	5405.02	0.53	-0.069	5500.02	981,945.020	0.00	0.01	0.04	0.05	982279.407	1273.61	560710.4	7192563.2	-64.12	-74.80	-83.87
1	2000	rp01214	8.43	689	5404.83	0.58	-0.032	5499.88	981,945.059	0.00	0.01	0.04	0.05	982279.407	1273.61	560710.4	7192563.2	-64.08	-74.76	-83.83
1	2000	rp01218	18.36	689	5405.10	0.56	-0.021	5500.16	981,945.093	0.00	0.01	0.04	0.05	982279.407	1273.61	560710.4	7192563.2	-64.05	-74.72	-83.80
2	201	rp01226	11.17	689	5299.21	0.70	0.032	5392.53	981,877.596	0.04	0.20	0.78	1.08	982276.143	1766.46	557308.4	7187560.7	-66.66	-71.18	-77.77

**LaCoste & Romberg** LLC*The first name in gravity since 1939***Model "G" Gravity Meter**

The Model "G" gravity meter has been the standard instrument for regional gravity data acquisition throughout the world for almost 40 years! It has a world-wide range of 7,000 milligals without resetting. One turn of the nulling dial is approximately 1 milligal.



The main components you see on the black meter lid are:

- Arrestment Knob (Clamp)
- Nulling Dial
- Three leveling screws
- Bubble Levels
- Switch for Internal Light
- Eyepiece for Viewing Beam Position
- Aliod 100 Electronic Feedback System
- Aliod 100 LCD Display

MODEL "G" GRAVITY METER SPECIFICATIONS

- **RANGE:** 7000 milligal
- **ACCURACY:** 0.04 milligal
- **REPEATABILITY:** 0.01 milligal
- **DRIFT:** 1.0 milligal per month or less
- **LENGTH:** 7-3/4 inches (19.7 cm)
- **WIDTH:** 7 inches (17.8 cm)
- **HEIGHT:** 9-7/8 inches (25.1 cm)
- **WEIGHT:** 7 pounds (3.2 kg)
- **Weight of suitable battery:** 5 pounds (2.3 kg)
- **Weight of meter, battery and carrying case:** 22 pounds (10.0 kg)

Model "D" Meter | Options | Sensor

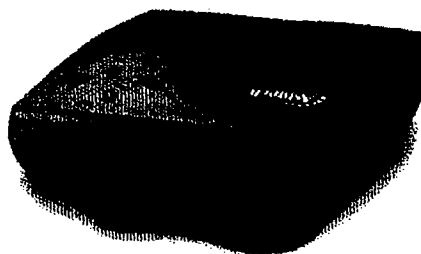
Meters



Ashtech Z-Surveyor

**Integrated, Dual-Frequency, Compact GPS Receiver
for High-Accuracy Post-Processed and RTK Surveying**

- Sub-centimeter accuracy
- Compact, lightweight design
- Integrated & flexible system configuration



The Z-Surveyor™ is a small, light-weight 12-channel, dual-frequency GPS receiver which combines our field-proven Z-tracking™ technology with a built-in battery, removable PC memory card and an internal radio data link for real-time centimeter-level surveying.

The Z-Surveyor can be configured for a variety of survey applications, including topographic mapping, geodetic control, detail, stake-out or photogrammetry. With this proven technology, a one-person crew can survey many more points per day than is possible using traditional survey instruments, especially over long baselines.

Surveying with the Z-Surveyor

The Z-Surveyor is capable GPS surveying techniques including post-processed static, rapid static, and kinematic or real-time kinematic (RTK). You can apply these techniques using a handheld survey controller, or, for post-processed applications, simply use the built-in two-button user interface and LED display. Ashtech offers the user a choice of controller software including Ashtech application packages such as GPS Field Mate™, Seismark II™, Mine Surveyor II™. Third party software is also available, including TDS's Survey Pro with GPS, Strata's PenMap or Carlson's SurvStar. Additionally, we offer a choice of data collectors including the the Husky™ F/S3, MP2500, TDS Ranger™, and a variety of pen computers. For real-time carrier phase differential surveying (RTK), the standard Z-Surveyor can be used as a base station or as a rover. It's fast and reli-

able, and using our patented Z-Tracking technology, it provides reliable performance and high productivity.

The Z-Surveyor provides precise centimeter positions in real-time. It's dual-frequency functionality ensures consistently accurate baseline measurements. The Z-Surveyor offers improved satellite tracking under adverse visibility conditions such as tree canopy, urban canyons or between buildings. Centimeter-level measurements over baselines of one mile can typically be made with two-minute observations. This results in increased productivity since shorter observation times allow the user to complete more in less time.

Integration and Flexibility

The Z-Surveyor is easy-to-use. With all the components in one compact package, the user doesn't need to worry about cumbersome connections or component compatibility. The system offers reduced power consumption and the flexibility to use either internal or external batteries if necessary.

The Z-Surveyor has versatile memory options using an industry-standard PC-Card (PCMCIA) for removable data storage. The standard card is more than sufficient for most tasks; however, the memory can be expanded up to 85 MB. This approach makes data transfer simple. Just remove the PC Card and plug it into a computer. Or, the Z-Surveyor can be connected directly to a computer using one of the four RS232 serial ports and download at 115,200 baud.

The Z-Surveyor is the first GPS surveying receiver to offer an optional internal radio. Used as a data link for real-time centimeter processing, the integration of the radio with the GPS receiver makes the real-time link much easier to use. The integration of the GPS receiver and radio link is more convenient because you have less equipment to carry and more reliability. The receiver is also compatible with external spread spectrum and UHF radios.

Support for Your Application

We offer a wide range of software options for many survey applications. We also offer a broad selection of accessories that makes using the Z-Surveyor simple and efficient. International use has been made easier with our new onboard user-selectable display can be set for use in English, French, German, Italian and Spanish languages.

SuperStation Configurations

The Z-Surveyor SuperStation is a field-to-finish turnkey GPS surveying system. The SuperStation combines the Z-Surveyor with powerful data collector and PC software capable of supporting real-time kinematic and post-processed data collection. We combine the power of industry-standard software and hardware components and tailor the SuperStation to meet the needs of specific applications. This integrated system provides the surveyor with increased flexibility and productivity.

MAGELLAN CORPORATION

471 El Camino Real, Santa Clara, CA 95050-4300, USA
Main Tel: +1 408-615-5100 • Main Fax: +1 408-615-5200
Sales: +1 408-615-3970 or 800-922-2401
In Washington D.C. Tel: +1 703-476-2212 • Fax: +1 703-476-2214
In Europe, Africa & Middle East Tel: +44 1189319600 • Fax: +44 1189319601
In South America +56 2 234 56 43 • Fax: +56 2 234 56 47
In Russia Tel: +7 095 956-5400 • Fax: +7 095 956-5360
Website www.ashtech.com • E-mail sales@ashtech.com

Ashtech
PRECISION PRODUCTS

Ashtech Z-Surveyor Specifications

Ashtech Technology

- 12 Channel All-in-View operation
- Full-wavelength carrier on L1 and L2
- Z-Tracking
- Multipath Mitigation
- Dual-frequency smoothing for improved code differential

Standard Features

- Real-time kinematic (base and rover modes) for cm-accuracy
- Removable PCMCIA memory card
- Internal removable battery
- 8-character LED display
- Audible alarm for low power and battery power level display
- Selectable update rate from 1 to 10 Hz
- RTCM 2.2 input/output (Code: types 1, 2, 9 (input only), 16 as well as Carrier: types 3, 18, 19, 20, 21, 22)
- NMEA 0183 output
- Event marker
- Joint positioning
- 1 PPS timing signal
- Remote monitoring
- Session programming
- Wide array of coordinate transformations
- External power input
- 4 RS-232 ports (115,200 baud max)
- 1-year warranty
- Free technical support

Standard Accessories

- Communications software
- Internal battery
- International dual battery charger
- RS-232 data cable
- Receiver operating manual
- Quick Reference field card
- Soft carrying case

Communication

The Receiver Communication Software enables you to quickly and easily configure the Z-Surveyor for a variety of applications in the office before

your field work. The software runs on Microsoft Windows 95/98 and Windows NT/2000.

Technical Specifications

Typical Survey Performance¹

Static, Rapid Static

- 5 mm + 1 ppm (2 drms)

Post-processed kinematic

- 1 cm + 1 ppm (2 drms)

Real-time Differential Position

- <1 m (2 drms)

Real-time Z Kinematic Position (rms)

- Horizontal: 1 cm + 2 ppm
- Vertical: 1.7 cm + 2 ppm

Occupation Time

- 2 seconds (typical - sub-centimeter accuracy with longer occupation time)

Azimuth (arc sec)

- 0.15 + 1.5/baseline length in km

RTK on-the-fly initialization: Greater than 99.9% reliability. Initialization times as short as 30 seconds following the acquisition of 8 or more satellites.

*Recommended baseline for RTK: ≤10 km.
Maximum baseline for RTK: 40 km.*

Environmental

Water resistance

- Meets MIL-STD 810E for wind driven rain and dust

Temperature Ranges

Z-Surveyor™ Receiver (with external battery)

- Operating: -30° to +55°C
- Storage: -40° to +85°C

Antenna

- Operating: -40° to +65°C
- Storage: -55° to +75°C

Physical

Weight

- Receiver: 3.75 lbs
- Antenna: 3.75 lbs

Dimensions

- 3" H x 7.3" W x 8.25" D

Power

- 10 - 28 VDC, 8.0 W

Internal Battery

- Temperature Range: -20° to +50°C
- Output voltage: 12 V
- Capacity: 3500 mA (typical)

PC Card

- Type: ATA Type II PCMCIA Memory Card
- Temperature Range: -40° to +85°C
- Typical number: 4500 per 2 MB* of epochs

** Based on one session, 8 satellites' data, 20 second recording interval and full measurements. This number can vary significantly depending on the conditions of the session.*

Optional Features

- Internal UHF radio for RTK surveying
- External frequency standard input 5, 10, or 20 MHz

Optional Accessories

- 3, 10, 30-meter antenna cable expandable to 150 meters w/line amps
- External battery
- Ashtech Solutions™ Software Package
- Ashtech Office Suite for Survey™
- Geodetic antenna kit
- Kinematic antenna kit
- Aircraft antenna kit
- AC power cable
- UHF radio kit
- External spread spectrum radio kit
- Choke Ring Antenna
- Backpack Kit
- Survey Tribrach and adapter
- Kinematic bipod and pole

¹ Accuracies assume minimum of 5 satellites, following the procedures recommended in the product manual. High-multipath areas, high PDOP values, and periods of high-activity atmospheric conditions will degrade accuracy. Post processing with Ashtech Solutions™ or Ashtech Office Software.

Specifications are subject to change without notice.

© 2001 Magellan Corporation.

Ashtech® is a registered trademark of Magellan Corporation. Z-Surveyor, Z-SuperStation, Z-12, Z-Tracking, RZ, GPS FieldMate, and Ashtech Solutions are trademarks of Magellan Corporation. All other product and brand names are trademarks or registered trademarks of their respective holders. Ashtech P-code GPS technology has been FCC tested and is capable of performing first order surveys (report available upon request) (5/01)

Ashtech
PRECISION PRODUCTS



Canadian Gravity Standardization Network
[back to CGSN Map](#)

[[9808-1969](#)] [[9168-1990](#)]

STATION IDENTIFICATION

NUMBER: 9378-1978

NAME: DAWSON

PROVINCE / TERRITORY: YUKON TERRITORY

STATION COORDINATES

LATITUDE: N 64 2 37.2 +/- 20 m

LONGITUDE: W 139 7 36.6 +/- 20 m

ELEVATION: 369.0 +/- 3 m

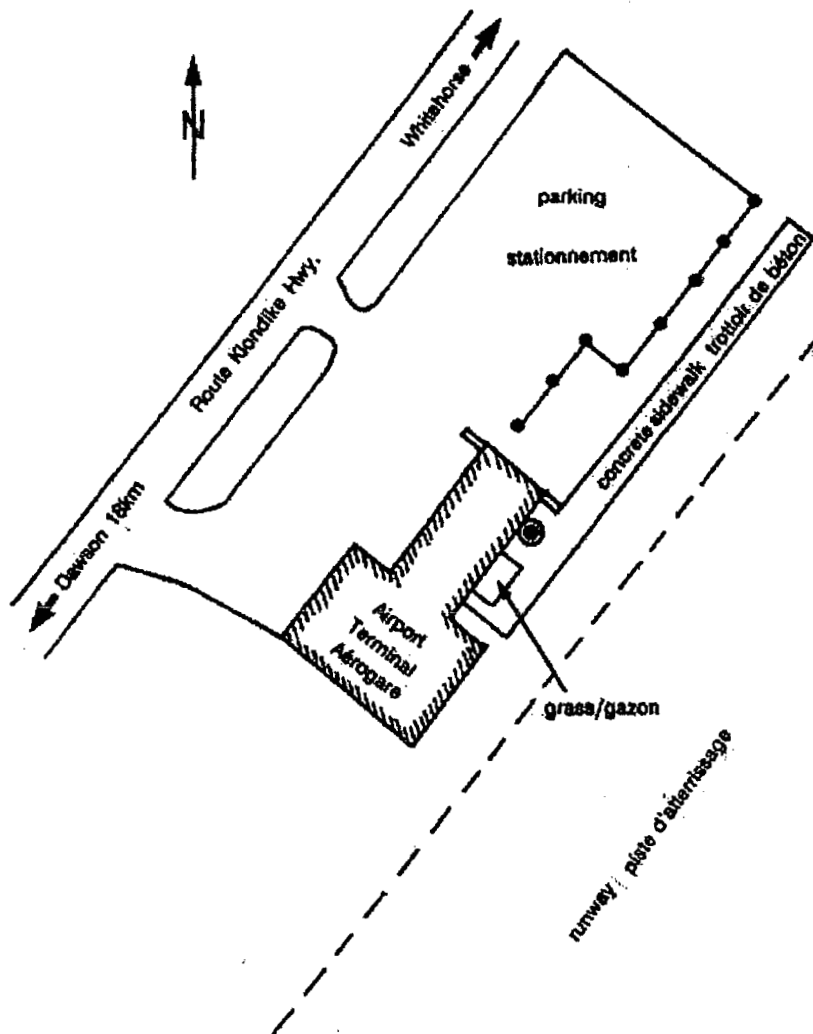
GRAVITY VALUE: 982076.911 +/- .007 mgal

REVISED: 08-OCT-1991

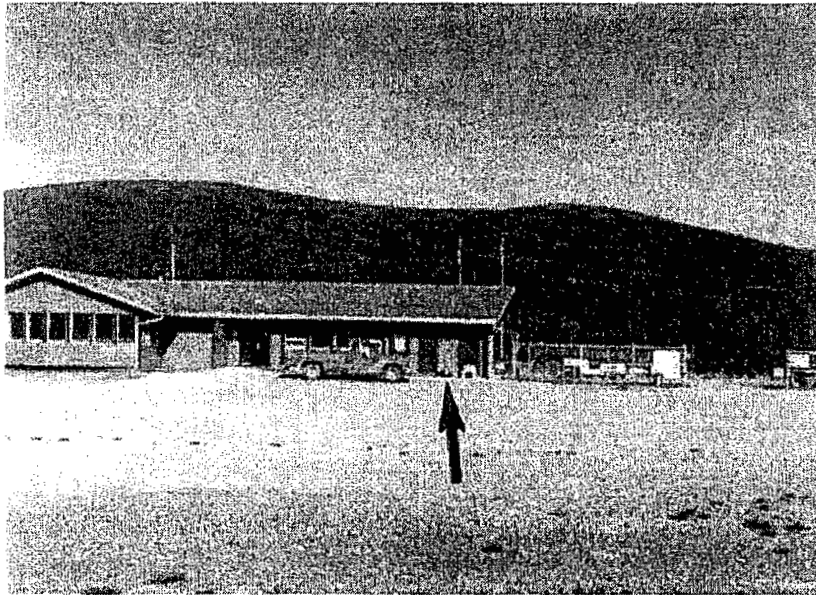
STATION INFORMATION AND LOCATION:

The station is located on the sidewalk on the runway side at the SE corner of the Dawson airport terminal building, 18km N of the town of Dawson. It is monumented by an aluminum disc.

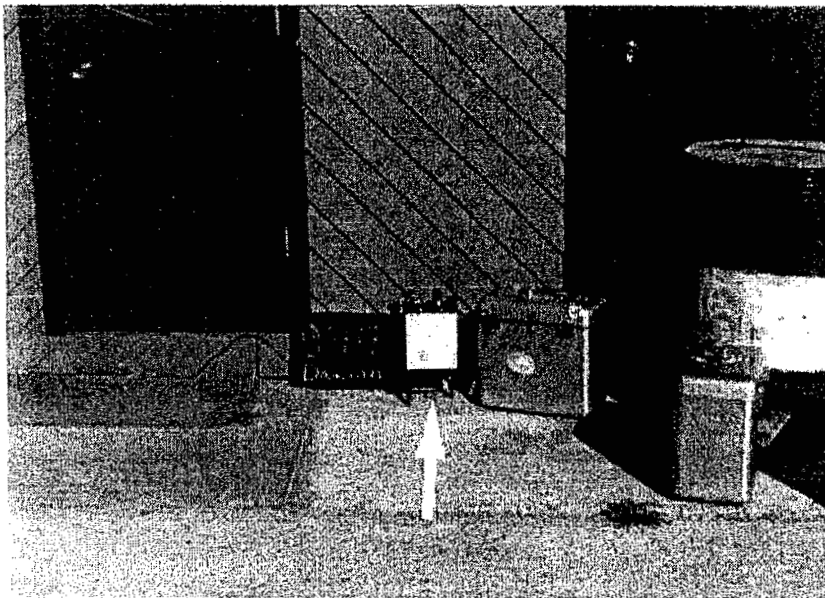
SKETCH:



DISTANT VIEW:



CLOSE-UP VIEW:



FOR FURTHER INFORMATION CONTACT

GEODETIC SURVEY OF CANADA
INFORMATION SERVICES
615 Booth Street
Ottawa, Ontario
K1A 0E9

APPENDIX E

COMPLETE BOUGER GRAVITY ANOMALY DATA LISTING

**Complete Bouguer Gravity Anomaly
Data Listing
for
2001 Monster-Cookie Gravity Survey**

Station	Easting UTM Zone 7 NAD 27 (m)	Northing UTM Zone 7 NAD 27 (m)	Elevations (m) (m)	Inner Terrain* Corrected Bouguer Anomaly (mGal)	Complete** Bouguer Anomaly (mGal)
1	561954.2	7194308.3	1711.29	-95.53	-81.50
2	561633.1	7194235.2	1755.59	-96.82	-79.01
3	561374.6	7193886.6	1726.16	-93.55	-78.65
4	560917.6	7193745.4	1688.63	-89.74	-78.72
5	560273.5	7193885.9	1786.09	-92.39	-76.44
6	559996.8	7193549.3	1733.79	-88.49	-77.16
7	559675.5	7193730.2	1632.62	-84.02	-76.31
8	559440.6	7193831.5	1669.00	-87.43	-77.32
9	559906.8	7193097.3	1702.04	-86.73	-75.53
10	559694.1	7192804.5	1721.38	-86.72	-76.21
11	559361.9	7192744.9	1726.68	-87.09	-75.02
11	559361.9	7192744.9	1726.68	-87.06	-74.99
12	559171.1	7192929.7	1654.93	-84.38	-76.41
13	559150.7	7192494.8	1700.91	-84.98	-75.44
14	558668.4	7192410.8	1601.74	-82.48	-75.17
15	558517.0	7192601.5	1554.21	-82.08	-75.49
16	558858.1	7192346.7	1667.45	-84.03	-74.16
17	562768.8	7192879.8	1043.87	-87.77	-78.22
18	562977.2	7193095.6	1024.55	-89.01	-79.31
19	563195.2	7193317.5	1023.95	-88.49	-78.70
20	563324.8	7193576.5	1017.60	-88.61	-79.42
21	563428.4	7193766.6	1008.57	-88.69	-79.88
22	559011.8	7192064.3	1706.87	-84.92	-75.89
23	559091.5	7191713.5	1756.98	-87.25	-77.43
24	559247.9	7191532.0	1726.45	-84.71	-74.61
25	559393.3	7191340.1	1795.76	-86.59	-72.08
26	559528.5	7190978.3	1831.46	-86.54	-70.42
27	559607.2	7190630.6	1908.10	-91.32	-73.17
28	559844.0	7190360.7	1950.92	-94.55	-76.67
28	559844.0	7190360.7	1950.92	-94.53	-76.65
28	559844.0	7190360.7	1950.92	-94.52	-76.64
28	559844.0	7190360.7	1950.92	-94.50	-76.62
29	560078.8	7190325.9	1924.90	-93.93	-76.69
29	560078.8	7190325.9	1924.90	-93.86	-76.62
30	560347.6	7190574.0	1819.27	-88.59	-77.09
30	560347.6	7190574.0	1819.27	-88.58	-77.08
31	560499.0	7190851.0	1764.17	-87.49	-75.85
32	561807.5	7192322.9	1434.55	-86.19	-78.27
33	561414.4	7192172.6	1591.47	-88.46	-76.95

Station	Easting UTM Zone 7 NAD 27 (m)	Northing UTM Zone 7 NAD 27 (m)	Elevations (m) (m)	Inner Terrain* Corrected Bouguer Anomaly (mGal)	Complete** Bouguer Anomaly (mGal)
34	561240.8	7191906.1	1704.42	-92.29	-77.35
35	561212.2	7191588.1	1783.54	-95.47	-79.42
36	560958.1	7191341.3	1758.94	-90.36	-71.57
37	560819.0	7191104.4	1748.89	-89.73	-75.19
38	560486.5	7190273.5	1767.38	-87.32	-76.79
39	560827.8	7190228.4	1732.90	-88.04	-74.88
40	561099.5	7190030.8	1645.43	-86.86	-75.54
41	561138.8	7190452.0	1618.66	-84.25	-75.59
42	561400.6	7190634.6	1492.51	-82.02	-75.39
43	562452.2	7190929.6	1104.23	-85.42	-76.26
43	562452.2	7190929.6	1104.23	-85.37	-76.21
44	562527.6	7191593.8	1079.84	-86.97	-77.49
45	562554.2	7191968.8	1077.22	-86.36	-77.19
47	557652.2	7191778.6	1494.72	-79.49	-74.09
48	557855.2	7191210.8	1715.96	-87.97	-77.26
49	557993.6	7190652.9	1781.23	-89.04	-75.50
50	558202.2	7190308.9	1823.03	-89.93	-77.37
51	558555.7	7189977.3	1835.99	-88.20	-75.44
52	558713.2	7189792.8	1860.33	-89.78	-75.13
53	558648.0	7189459.7	1703.96	-82.01	-72.32
54	558594.2	7189268.0	1670.49	-82.20	-74.38
55	559036.6	7189726.6	1883.23	-89.44	-75.52
56	559396.1	7189698.6	1937.25	-93.61	-76.65
58	562538.5	7191776.0	1074.35	-87.12	-77.80
59	562496.9	7191251.1	1091.95	-86.47	-76.74
60	562408.0	7190686.6	1103.85	-85.47	-76.50
61	562369.6	7190438.6	1113.58	-84.88	-76.29
62	562311.9	7190190.8	1123.25	-84.41	-76.25
63	562236.4	7189944.3	1125.88	-83.97	-76.07
64	562206.1	7189691.5	1132.53	-83.59	-75.97
65	562159.9	7189450.4	1133.28	-83.23	-75.90
66	562069.1	7189219.6	1138.06	-83.07	-75.68
67	562003.2	7188969.0	1145.20	-82.44	-75.18
68	562088.6	7188718.5	1148.43	-82.19	-75.25
69	562116.8	7188484.0	1154.53	-81.81	-74.52
70	562047.2	7188267.3	1157.60	-81.25	-74.00
71	561986.4	7188020.9	1161.30	-80.92	-74.27
72	561946.8	7187784.8	1167.30	-79.94	-73.54
73	561933.2	7187531.3	1174.32	-79.24	-73.39
74	561948.3	7187296.3	1179.60	-78.55	-73.11
75	561997.8	7187051.9	1185.36	-78.18	-73.06
76	561839.1	7186827.3	1198.97	-77.26	-72.06
77	561644.3	7186651.7	1215.75	-77.29	-72.03
78	562057.7	7186802.1	1197.58	-77.23	-72.01
79	562219.4	7186602.5	1225.61	-76.06	-71.37
80	562368.5	7186399.9	1256.41	-75.00	-70.62
85	558451.3	7186442.9	1550.30	-79.38	-72.15

Station	Easting UTM Zone 7 NAD 27 (m)	Northing UTM Zone 7 NAD 27 (m)	Elevations (m) (m)	Inner Terrain* Corrected Bouguer Anomaly (mGal)	Complete** Bouguer Anomaly (mGal)
86	558694.1	7186452.8	1526.41	-78.16	-71.98
87	558932.9	7186401.8	1509.98	-77.79	-72.21
88	559199.1	7186409.8	1504.56	-77.58	-71.53
89	559404.9	7186523.6	1521.22	-77.04	-70.62
90	559640.3	7186601.0	1558.06	-77.66	-69.84
91	559835.2	7186755.0	1646.42	-80.69	-69.36
92	559917.0	7187003.1	1704.15	-83.23	-73.48
93	559823.0	7187232.7	1717.69	-83.05	-72.55
94	559773.5	7187482.5	1777.60	-87.59	-72.70
95	559683.5	7187710.4	1794.45	-88.82	-76.03
96	559479.8	7187891.8	1777.69	-87.31	-75.79
97	559427.2	7188162.9	1753.15	-86.23	-75.74
98	559467.3	7188416.8	1761.46	-87.06	-75.66
99	559589.5	7188587.3	1767.72	-86.81	-75.22
100	559842.3	7188608.8	1701.06	-83.34	-75.76
101	560084.6	7188638.3	1674.01	-83.02	-74.38
102	560349.2	7188623.1	1688.23	-85.38	-75.75
103	559569.0	7188852.7	1711.65	-82.83	-75.33
104	559553.3	7189107.5	1735.61	-83.54	-74.05
105	559476.4	7189429.3	1867.94	-89.73	-76.01
106	559595.8	7189811.8	1906.24	-91.30	-74.53
107	564454.7	7194133.3	1253.41	-85.98	-80.69
108	564372.6	7193896.4	1301.35	-86.56	-80.54
109	564302.1	7193658.9	1365.84	-87.55	-80.66
110	564262.6	7193419.1	1449.78	-90.31	-81.05
111	564130.4	7193180.2	1502.21	-91.32	-80.34
112	564043.0	7192962.9	1535.04	-91.99	-80.70
113	563893.9	7192763.2	1552.83	-91.71	-80.39
114	563823.9	7192530.4	1589.61	-92.72	-81.21
115	563813.4	7192272.4	1619.68	-92.11	-80.34
116	563843.4	7192029.3	1586.28	-88.36	-77.87
117	563848.2	7191781.8	1603.84	-89.00	-80.79
118	563894.7	7191543.0	1651.69	-89.12	-79.71
119	563934.3	7191299.9	1726.12	-92.66	-80.27
120	564019.3	7191073.5	1786.91	-94.16	-80.07
121	564019.4	7190843.7	1878.09	-99.47	-80.38
123	565028.3	7188096.9	1254.30	-77.77	-71.59
124	565397.0	7188422.9	1221.83	-81.43	-75.87
125	565612.0	7188538.0	1219.11	-81.54	-76.09
126	565808.2	7188685.7	1202.53	-82.40	-76.52
127	566024.7	7188782.8	1187.15	-82.89	-76.96
128	566263.8	7188858.4	1155.52	-83.41	-77.72
129	566484.3	7188963.5	1136.63	-83.62	-77.59
130	566571.1	7189194.3	1124.51	-84.05	-78.35
131	566518.2	7189434.4	1118.80	-84.73	-78.35
147	555627.1	7188904.8	1567.81	-78.54	-70.55
148	555877.0	7188944.6	1648.42	-83.26	-70.47

Station	Easting UTM Zone 7 NAD 27 (m)	Northing UTM Zone 7 NAD 27 (m)	Elevations (m) (m)	Inner Terrain* Corrected Bouguer Anomaly (mGal)	Complete** Bouguer Anomaly (mGal)
149	556113.3	7189006.6	1744.32	-90.69	-73.67
150	556331.3	7188854.3	1767.76	-92.42	-75.02
151	556365.4	7188602.7	1690.74	-87.44	-73.21
152	556514.0	7188394.2	1581.45	-81.81	-71.91
153	556662.5	7188191.1	1508.33	-80.07	-72.93
154	556761.5	7187966.8	1412.39	-78.14	-71.55
155	556933.7	7187750.4	1246.37	-76.72	-70.92
156	557171.6	7187813.5	1153.87	-80.04	-72.79
2000	560710.4	7192563.2	1273.61	-83.88	-76.84
2000	560710.4	7192563.2	1273.61	-83.87	-76.83
2000	560710.4	7192563.2	1273.61	-83.83	-76.79
2000	560710.4	7192563.2	1273.61	-83.80	-76.76

Note:

*Inner Terrain Corrected Bouguer Anomaly from 0m to 170m from station point

** Complete Bouguer Anomaly terrain corrected from 0m to 22km from station point

APPENDIX F

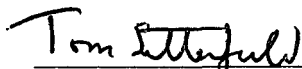
GEOSCIENTISTS' CERTIFICATES

GEOSCIENTIST CERTIFICATE

I, Tom Setterfield of 21 Tripp Crescent, Ottawa, in the Province of Ontario, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist and sole proprietor of TNS Consulting with an office at 21 Tripp Crescent, Ottawa, Ontario, as well as Vice President Exploration for Monster Copper Resources Inc.
2. THAT I am a graduate of Carleton University with a Bachelor of Science Honours degree in Geology and Chemistry (1980), the University of Western Ontario with a Masters of Science degree in Geology (1984), and the University of Cambridge with a Doctor of Philosophy degree in Earth Sciences (1991).
3. THAT I am a Professional Geoscientist (P.Geo) registered in good standing with the Association of Professional Geoscientists of Ontario (No. 0103).
4. THAT this report is based on property work I conducted and/or supervised between August 1 and August 13, 2001, as well as government and academic publications and assessment reports filed with the Yukon Territory.

DATED at Ottawa, Ontario, this 16th day of June, 2002.

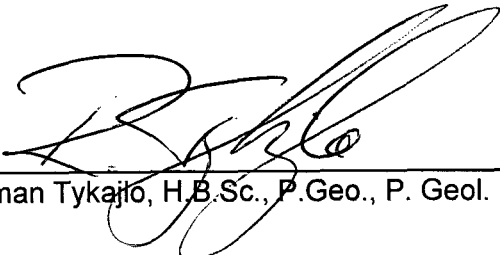

Tom Setterfield, PhD, P.Geo.

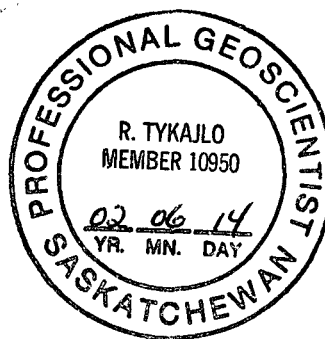
GEOSCIENTIST CERTIFICATE

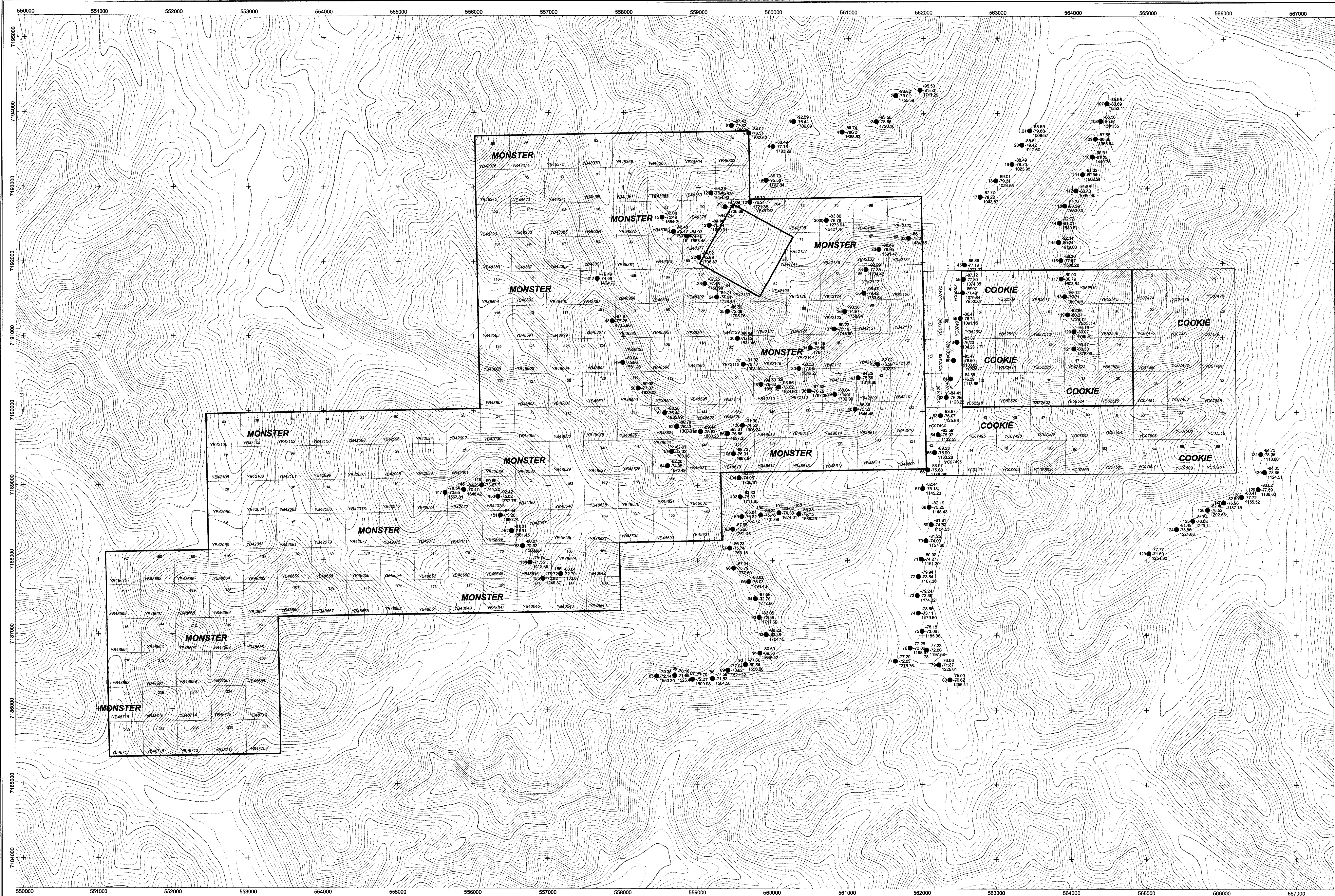
I, Roman Tykajlo of 74 Stonebriar Drive, Ottawa, in the Province of Ontario
DO HEREBY CERTIFY:

1. THAT I am a Consulting Geoscientist and sole proprietor of Geo-Digit-Ex with an office at 74 Stonebriar Drive, Ottawa, Ontario.
2. THAT I am a graduate of Lakehead University with a Bachelor of Science Honours degree in Geology/Physics (1978).
3. THAT I am a Professional Geoscientist (P.Geo.) registered in good standing with the Association of Professional Engineers and Geoscientists of Saskatchewan (APEGS), and a Professional Geologist (P. Geol.) registered in good standing with the Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA).
4. THAT this report is based on property work conducted by MWH Geo-Surveys Ltd. and designed by me between August 2 and 15, 2001.

DATED at Ottawa, Ontario, this 14th day of June, 2002.


Roman Tykajlo, H.B.Sc., P.Geo., P. Geol.





Symbol Legend

● -85.96 Inner terrain corrected Bouguer Gravity (mGal)
● -80.69 Complete Bouguer Gravity (mGal)
● 1253.41 DGPS elevation (m)
● Station number

Technical Note:

Bouguer density used for data reduction was 2.67 gm/cc.

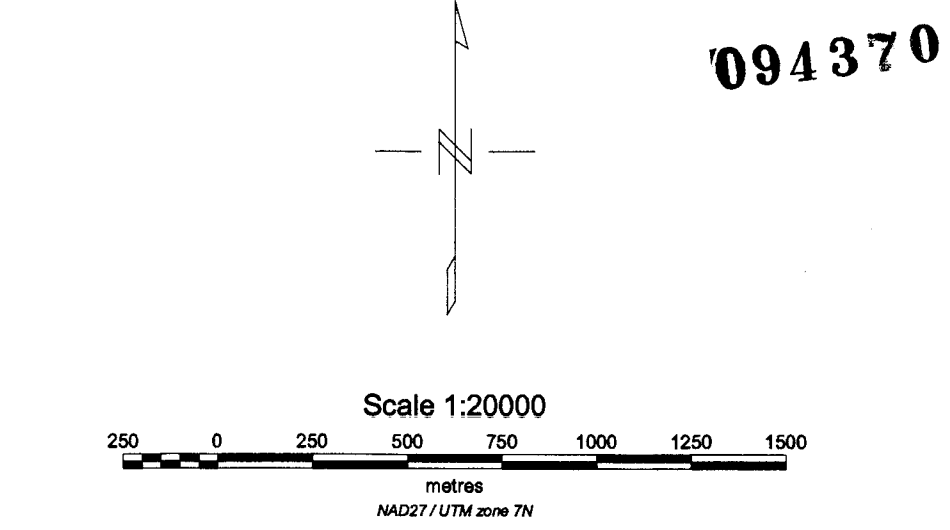
Inner terrain corrections were calculated for Hammer Zones B to D (0-170m radius from gravity station) using local slope corrections. Local slopes were acquired at the gravity station. Terrain density used was 2.67 gm/cc.

Complete Bouguer Gravity Anomaly includes the inner terrain correction applied above, plus an outer terrain correction from 170m out to 22km. Terrain density used was 2.67 gm/cc.

Gravity station elevations were determined using differential GPS.

Elevation contours are based on a 90m cell Digital Elevation Model (DEM) supplied by Yukon Department of Renewable Resources Geographic Information System (RGIS). This DEM was also used in the outer terrain correction calculation.

Claim data was extracted from digital data provided by the Yukon Mining Recorder.



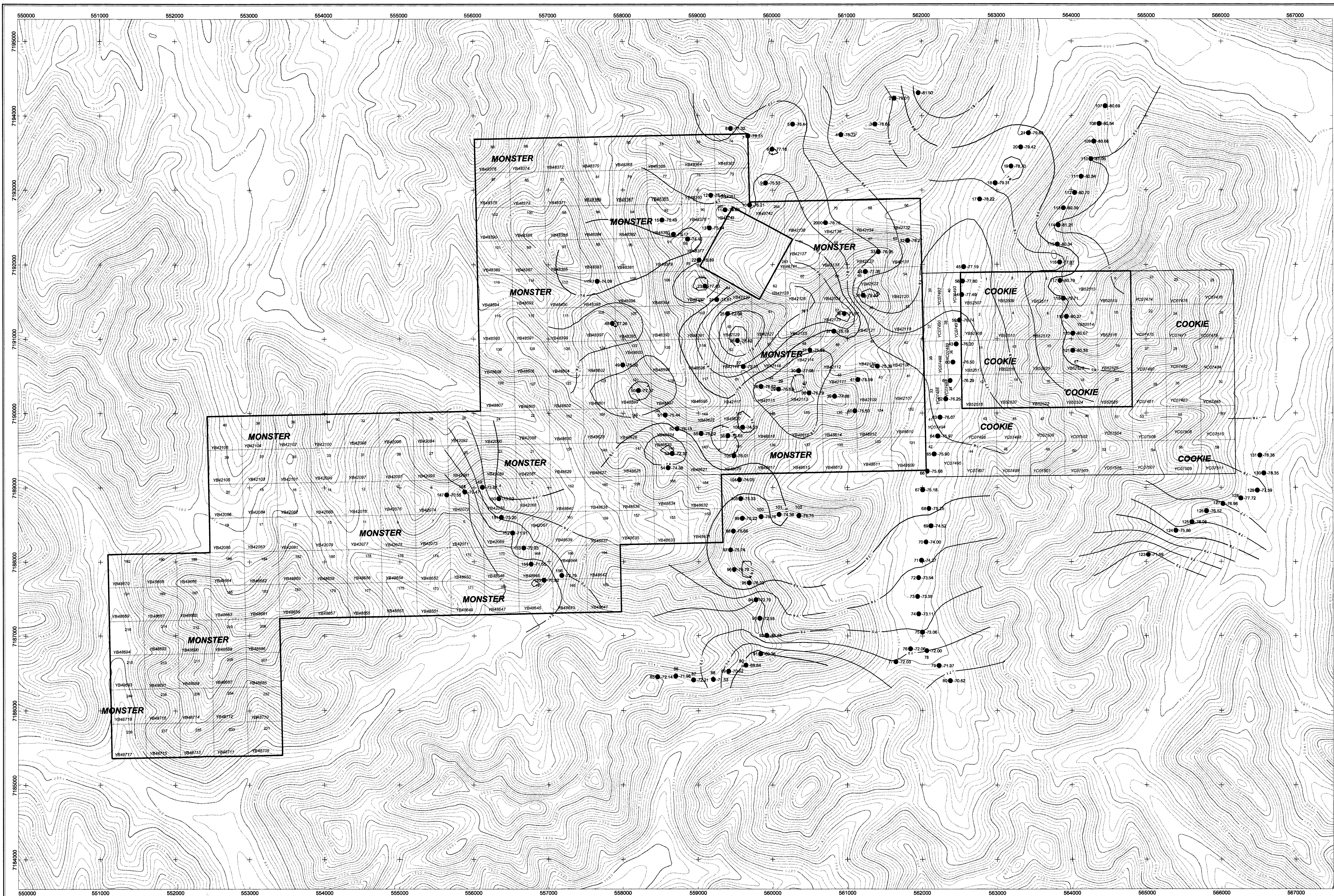
Monster Copper Resources Inc.

Monster Project
Monster and Cookie Claims
NTS 116-B-13
Dawson Mining District, Yukon

Gravity Survey Stations
Data Postings

MAP 1

surveyed 2011 by MMV Geosurveys Ltd.
map prepared June 2012 by Metanex Geoscientific Corporation



Symbol Legend

5 ● -80.69 Complete Bouguer Gravity (mGal)

Contour Interval = 1mGal

Technical Note:

Bouguer density used for data reduction was 2.67 gm/cc.

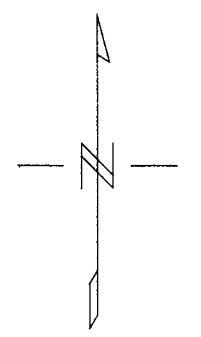
Inner terrain corrections were calculated for Hammer Zones B to D (0-170m radius from gravity station) using local slope corrections. Local slopes were acquired at the gravity station. Terrain density used was 2.67 gm/cc.

Complete Bouguer Gravity Anomaly includes inner terrain correction applied above, plus a outer terrain correction from 170m out to 22km. Terrain density used was 2.67 gm/cc.

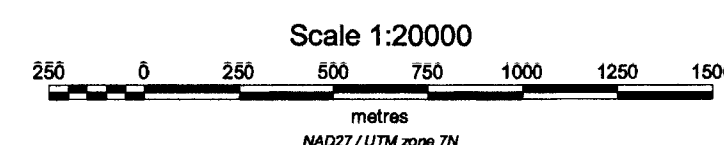
Gravity station elevations were determined using differential GPS.

Elevation contours are based on a 90 m cell Digital Elevation Model (DEM) supplied by the Department of Renewable Resources Geographic Information System (RRGIS). This DEM was used in the outer terrain correction calculation.

Claim data was extracted from digital data provided by the Yukon Mining Recorder.



094370

**Monster Copper Resources Inc**

Monster Project
Monster and Cookie Claim
NTS 116-B-13
Dawson Mining District, Yukon

Gravity Survey Stations and Complete Bouguer Gravity Contours

MAP 2

surveyed 2001 by MWH Geosurveys Ltd.
map prepared June 2002 by Metallum Geoconsultants Corporation