(47)

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# SAMPLING PROGRAM

# ANYOX TAILINGS

# ANYOX, BRITISH COLUMBIA

for

REMIDA VENTURES INC.

NOVEMBER, 1990

ANYOX, BRITISH COLUMBIA
SKEENA MINING DISTRICT

NORTH LATITUDE: 55o 25'
WEST LONGITUDE: 129o 50'

by

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SUMMARY

Between 1915 and 1935, Granby Consolidated Mining, Smelting & Power Company, Ltd. (Granby) operated the Hidden Creek mine at Anyox, British Columbia. During the period approximately 24 million tons of ore was processed to produce blister copper. The average grade of the ore was 1.5% copper, 0.005 opt gold and 0.3 opt silver. The operation was closed in August of 1935 because of the depressed market. As a result of the operation there exists at Anyox a tailings pile which has anomolous values of copper and gold.

Sporadic sampling of the tailings was carried out in 1988 when field investigations were carried out on the Hidden Creek mine site. Copper values ranging from 0.05 to 5% copper and gold values from nil to 0.05 opt were recovered.

The tailings pile covers an area estimated to be 500 meters by 150 meters with depth ranging to 6 meters. Based upon gross calculations, there could be up to 1 million tons of tailings in place.

A sampling program was carried out on the tailings pile between November 14 and November 20, 1990. This involved laying out a grid over the area and sampling the pile through to the undisturbed tailing material by means of a vibracore. The samples have been assayed and show an average copper content of 1% with values ranging from 0.09% to 2.2% with minor gold and silver. The iron content ranges from 13% to 44%. A metallurgical analysis is planned to determine the recovery

process to be used.

The tailings pile is well located and suited to a bulk materials sorting process. The material is consolidated but friable and is composed of sulfides, sand and clay which become unconsolidated upon agitation in water. Pyrite is the dominant mineral with chalcopyrite, sphalerite and pyrrhotite in lesser amounts.

## INTRODUCTION

The Anyox district was one of the most important copper mining camps in British Columbia during the first third of the twentieth century. A copper smelter operated at Anyox from 1915 to 1935, processing ore delivered to the smelter from the Hidden Creek mine and the Bonanza mine. The Hidden Creek mine was located approximately one mile north of the smelter and the Bonanza mine was located approximately two miles to the south of the smelter. After production ceased in 1935 the area has been subject to sporadic exploration.

## OWNERSHIP

The property was acquired from Cominco in early 1990 by Moss Management Inc., a private British Columbia company. The tailings pile lies on fee simple land and overlies crown granted claims.

Remida Ventures Inc. has an option to earn a 50% interest in the tailings, mine dumps and minerals within the waters flowing from the Hidden Creek property. In order to earn this option Remida

must spend $80,000 by March 1, 1991 on testing and bring the various components into production by October 1993.

## LOCATION AND ACCESS

The former Anyox townsite is located on tidewater at latitude 55o25' north and longitude 129o50' west, approximately 90 miles from Prince Rupert (see Figure 1). Tides within the area have a range of twenty to thirty feet. Access is by fixed wing aircraft, boat or helicopter from Stewart or Prince Rupert. Highway access is now available to Kitsault, 15 miles east of the property across Observatory Inlet. The tailings pile is located within one half mile of tidewater with road access.

Mobilization and demobilization of materials and equipment is most easily effected by barge if there is considerable material to move, otherwise fixed wing aircraft are suitable. Basic camp facilities in the form of Atco-style trailers are on site and could be satisfactory with rehabilitation for accommodation. Alternatively, accommodation can be set up on barges, towed to the area and moored with a tide compensating gangway system. Fresh water is available from the outlet of Falls (Anyox) Creek adjacent to the former powerhouse. At the location of the tailings pile, fresh water is available from either Hidden Creek or Anyox Creek, the choice being determined by the location of the sorting equipment.

Entry to the tailings pile is via a 2 meter wide ramp from the main access road. The ramp was the roadbed for a narrow guage


**LOCATION PLAN**

FIGURE 1

track and is not suitable for present day vehicles without modification. Shaving the crown with a bulldozer and opening up more of the base should make the ramp into roadway access. Alternate access can be created by clearing a roadway through sparse timber on the flats.

## TERRAIN AND VEGETATION

The terrain at Anyox ranges from a flat-lying area between Hidden Creek and Anyox Creek to low, rolling hills with a maximum elevation of 1000 feet, to rugged mountains inland. In the vicinity of the Anyox townsite vegetation consists only of small shrubs and bushes. The tailings pile is essentially barren of vegetation.

## HISTORY

The history of Anyox and the mining activity has been well documented through technical reports, newspaper articles and books describing the era. The property was acquired by Cominco in 1936 and all usable equipment was salvaged and moved to Trail, British Columbia.

Cominco has carried out local exploration around the Hidden Creek Mine regional scale exploration on the Anyox pendant from 1937 to 1976. In 1980, Mitsui joint ventured an exploration program on the Hidden Creek mine and in 1988, Prospectors Airways carried out work under option. Sparse sampling of the tailing pile was carried out at this time.

## GEOLOGY

The Anyox area is underlain by an assemblage of northerly trending basalts and sedimentary rocks which form a large roof pendant 15 km by 10 km (9 x 6 miles) in the Coast Range batholith. A Triassic age for the pendant rocks is suggested with the granitic rocks of probable late Mesozoic to early Tertiary age. The Anyox property lies on the east side of the pendant.

The mineralization in the area occurs at or near the volcanic-sedimentary contact. Most of the known sulphide deposits including the Hidden Creek, the Bonanza, the Double Ed, and the Red Wing are interpreted as being of exhalative-volcanogenic origin. The sulphides consist of massive iron sulphides, both pyrite and pyrrhotite, hosting chalcopyrite with lesser sphalerite. Grades of copper range from 0.5% to plus 5% while zinc grades average about 0.5%. Precious metals are in general low, 0.005 opt gold, 0.3 opt silver, but can be locally higher.

The general geological relationships in the mine area are described by Dr. E. W. Grove in the B.C. Minister of Mines annual report for 1965, page 57.

## MINING HISTORY

The 1965 B.C. Minister of Mines annual report gives the production from the Hidden Creek ore bodies as:

121,299 ounces gold, 6,638,088 ounces silver, and

708,891,739 pounds of copper from 23,948,419 short tons of ore with an average grade of 1.55% copper.

A report by Mr. L. Telfer dated May 3, 1937, gives the total production from the eight ore bodies at Hidden Creek betwen surface at 800 feet above sea level to 535 feet below sea level, as 21,781,725 metric tonnes having an average grade of 1.67% copper. During the early years, the ores treated at Anyox were smelted directly in blast furnaces, semi-pyritically. Subsequently, it became necessary to concentrate by flotation the more refractory ores and those of a lower sulphide content. In March, 1924, the first unit of the 5,000 ton per day concentrator was put in operation to treat the concentrates from the mill and siliceous gold-silver custom ores.

PREVIOUS RESEARCH

Sampling of the tailings was carried out on a very limited scale in 1988 when Prospectors Airways Co. Ltd. was operating in the area under an option agreement with Cominco. The following samples were taken from the area:

| Type | Scource | Analysis | Number |
|---|---|---|---|
| Water | Hidden Creek | ICAP | 8 |
| Ore | Concentrator | ICAP | 16 |
| Tailings | Ponds | ICAP | 35 |

The complete assay sheets are included as Appendix B.

The numerical averages of the various samples are listed below:

| Type | Copper | Zinc | Gold |
|---|---|---|---|

| | %Cu | %Zn | optAu |
|---|---|---|---|
| Water | 0.762? | | |
| Ore | 11.15 | 4.0 | 0.076 |
| Tailings | 0.94 | 0.07 | 0.008 |

RESULTS OF CURRENT PROGRAM

The tailings pile was sampled between November 13th and 21st, 1990. The pile covers an area roughly lobate in shape measuring approximately 500 meters along the north-south axis and 120 meters along the east-west axis (see Figure 2). Surface weathering extends to a depth of approximately 1 meter (2.5 to 3 feet). In the weathered zone there is only minor mineralization (see Figure 3), the mineral component having been leached since the pile was emplaced in the 1920's. Fifty-five locations were sampled by means of a vibracore unit at 10 meter spacing along grid lines (see Figure 4). The vibracore unit was effective only in unconsolidated sediments with contained fluids. When material was dry and hardpacked i.e. hardpan, there was minimal penetration, or if organic material was encountered the vibrations were damped resulting in no penetration. Penetration into the unweathered portion of the pile was obtained in 53% of the samples. The complete sample recovered from the drill pipe was bagged in 6 mil poly bags and sealed.

A complete tabulation of the assays is included in Appendix C.

The following are the copper grades which were obtained:

Average grade overall: 0.79% Cu

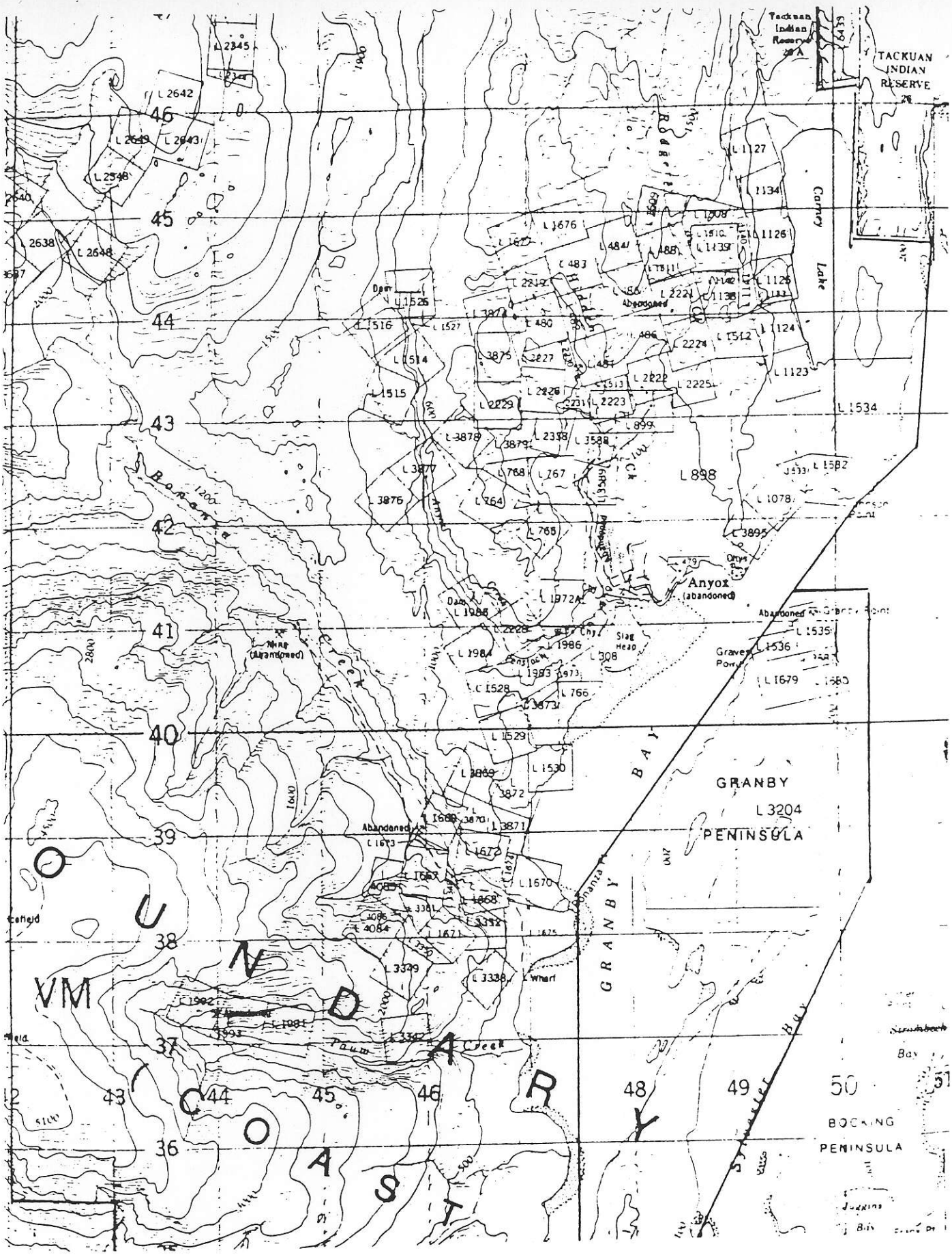


FIGURE 2 - TAILINGS PILE LOCATION

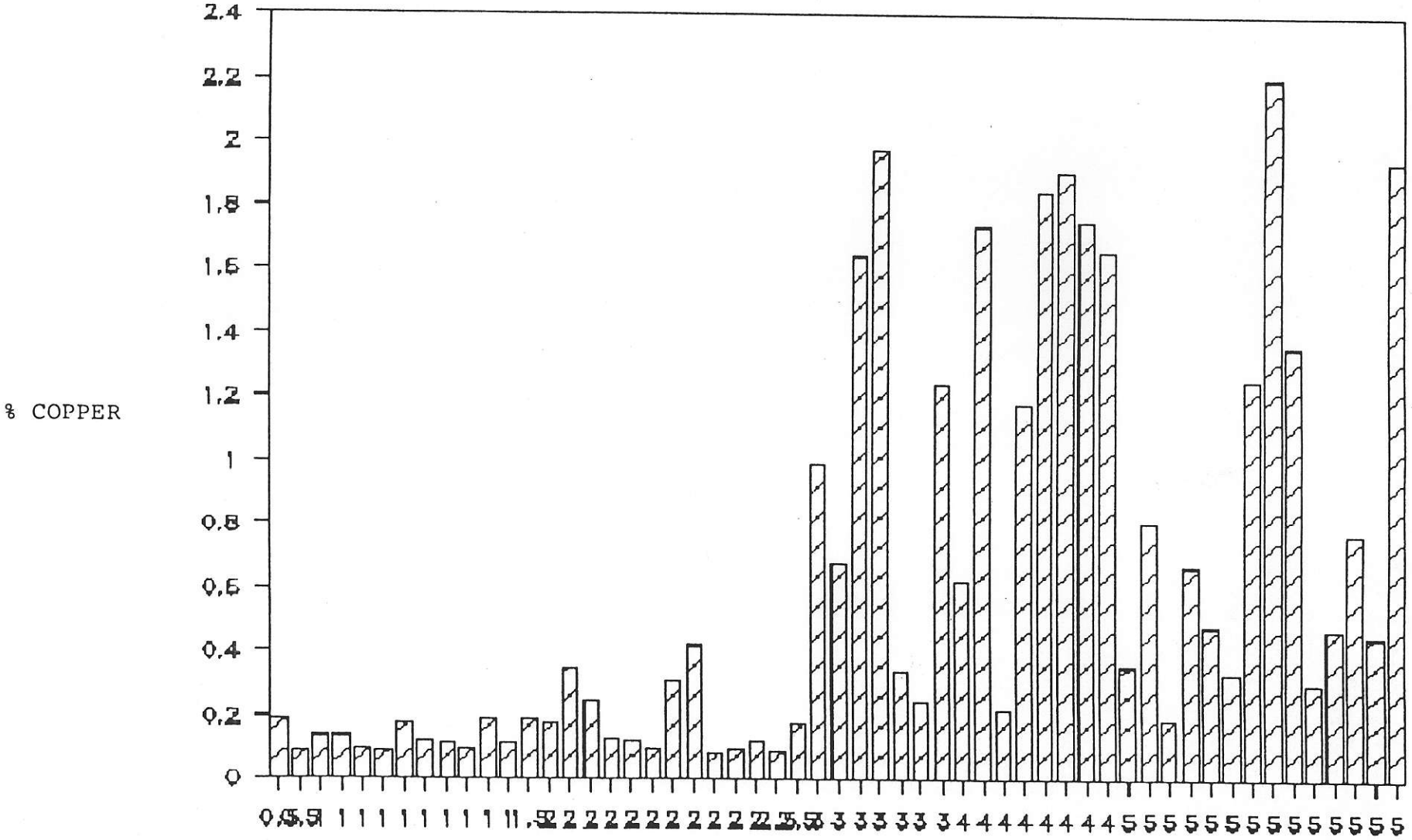


FIGURE 3

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| Sample type | | Tailings | Tailings | Tailings | Tailings | Tailings |
|---|---|---|---|---|---|---|
| Identification | | CP-10 | CP-11 | 123651 | 123652 | 123653 |
| Lab Reference # | | 9313-016 | 9313-017 | 9313-018 | 9313-019 | 9313-020 |
| Analyzed by Plasma Emission Spectroscopy (ICAP) | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| Trace Elements | | | | | | |
| Arsenic | As | < 30 | < 30 | < 30 | < 30 | < 30 |
| Boron | B | 2. | 4. | < 1. | < 1. | < 1. |
| Beryllium | Be | 0.5 | 0.5 | < 0.1 | < 0.1 | < 0.1 |
| Bismuth | Bi | < 20. | < 20. | < 20. | < 20. | < 20. |
| Cadmium | Cd | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Cobalt | Co | 15. | 13. | 5. | 14. | 152. |
| Chromium | Cr | 115. | 104. | 177. | 225. | 157. |
| Copper | Cu | 364 | 365 | 510 | 2580 | 5850 |
| Mercury | Hg | < 10 | < 10 | < 10 | < 10 | < 10 |
| Molybdenum | Mo | < 3. | < 3. | < 3. | < 3. | < 3. |
| Nickel | Ni | 64. | 46. | 10. | 10. | 46. |
| Lead | Pb | < 5. | 7. | < 5. | < 5. | < 5. |
| Antimony | Sb | < 10. | < 10. | < 10. | < 10. | < 10. |
| Selenium | Se | < 10 | < 10 | 20 | 20 | 30 |
| Thorium | Th | < 5. | < 5. | < 5. | < 5. | < 5. |
| Uranium | U | < 30 | < 30 | < 30 | < 30 | < 30 |
| Vanadium | V | 177. | 152. | 429. | 550. | 407. |
| Zinc | Zn | 147 | 147 | 107 | 102 | 440 |
| Results in | | ppm | ppm | ppm | ppm | ppm |
| Precious Metals by Fire Assay | | | | | | |
| Silver | Ag | 0.2 | 0.1 | 0.1 | 0.1 | 0.1 |
| Gold | Au | 0.001 | 0.001 | 0.002 | 0.002 | 0.001 |
| Palladium | Pd | 0.0009 | 0.0008 | 0.0004 | 0.0005 | 0.0006 |
| Platinum | Pt | 0.002 | 0.002 | 0.0007 | 0.002 | 0.002 |
| Rhodium | Rh | < 0.001 | < 0.001 | 0.001 | < 0.001 | < 0.001 |
| Results in | | oz/T | oz/T | oz/T | oz/T | oz/T |
| Majors as Oxides | | | | | | |
| Silicon | % SiO2 | 58.2 | 58.9 | 42.7 | 35.0 | 42.6 |
| Aluminum | %Al2O3 | 16.8 | 16.9 | 7.86 | 6.66 | 10.3 |
| Iron | %Fe2O3 | 7.57 | 6.83 | 32.6 | 42.0 | 29.1 |
| Calcium | % CaO | 2.96 | 3.19 | 0.83 | 0.73 | 1.40 |
| Magnesium | % MgO | 3.02 | 2.99 | 4.55 | 3.67 | 4.73 |
| Sodium | % Na2O | 2.64 | 2.76 | 0.27 | 0.35 | 0.41 |
| Potassium | % K2O | 3.55 | 3.55 | 0.23 | 0.34 | 0.37 |
| Barium | % BaO | 0.16 | 0.16 | 0.025 | 0.025 | 0.023 |
| Manganese | % MnO | 0.17 | 0.16 | 0.13 | 0.11 | 0.13 |
| Phosphorus | % P2O5 | 0.19 | 0.23 | 0.10 | 0.09 | 0.11 |
| Strontium | % SrO | 0.043 | 0.045 | 0.006 | 0.007 | 0.009 |
| Titanium | % TiO2 | 0.75 | 0.83 | 1.39 | 1.11 | 1.19 |
| Zirconium | % ZrO2 | 0.005 | 0.009 | 0.004 | 0.002 | 0.009 |
| Loss on Ignition | | 3.37 | 1.91 | 6.81 | 9.34 | 8.47 |
| Total Oxides | % | 98.2 | 98.2 | 98.1 | 100.0 | 98.8 |
| Total Carbon | %C | 0.56 | 0.51 | 0.10 | 0.15 | 0.02 |
| Total Sulfur | %S | 0.15 | 0.17 | 1.19 | 2.42 | 6.11 |

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| Sample type | | Tailings | Tailings | Tailings | Tailings | Tailings |
|---|---|---|---|---|---|---|
| Identification | | 123654 | 123655 | 123656 | 123657 | 123658 |
| Lab Reference # | | 9313-021 | 9313-022 | 9313-023 | 9313-024 | 9313-025 |
| Analyzed by Plasma Emission Spectroscopy (ICAP) | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| Trace Elements | | | | | | |
| Arsenic | As | < 30 | < 30 | < 30 | < 30 | < 30 |
| Boron | B | < 1. | < 1. | < 1. | < 1. | < 1. |
| Beryllium | Be | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Bismuth | Bi | < 20 | < 20 | < 20 | < 20 | < 20 |
| Cadmium | Cd | < 0.3 | 4.7 | < 0.3 | < 0.3 | < 0.3 |
| Cobalt | Co | 6. | 366. | 126. | 14. | 7. |
| Chromium | Cr | 233. | 163. | 352. | 293. | 197. |
| Copper | Cu | 702. | 12100. | 6420. | 1015. | 1150. |
| Mercury | Hg | < 10. | < 10. | < 10. | < 10. | < 10. |
| Molybdenum | Mo | 3. | < 3. | 3. | < 3. | < 3. |
| Nickel | Ni | 10. | 45. | 41. | 7. | 7. |
| Lead | Pb | < 5. | < 5. | < 5. | < 5. | < 5. |
| Antimony | Sb | < 10. | < 10. | < 10. | < 10. | < 10. |
| Selenium | Se | 20. | 30. | 20. | 20. | 30. |
| Thorium | Th | < 5. | < 5. | < 5. | < 5. | < 5. |
| Uranium | U | < 30. | < 30. | < 30 | < 30 | < 30 |
| Vanadium | V | 404. | 261. | 882. | 340. | 471. |
| Zinc | Zn | 125. | 1660. | 344. | 144. | 107. |
| Results in | | ppm | ppm | ppm | ppm | ppm |
| Precious Metals by Fire Assay | | | | | | |
| Silver | Ag | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Gold | Au | 0.001 | 0.006 | 0.002 | 0.001 | 0.001 |
| Palladium | Pd | < 0.0004 | 0.0010 | < 0.0004 | 0.0008 | 0.0005 |
| Platinum | Pt | 0.002 | 0.003 | 0.0009 | 0.002 | 0.001 |
| Rhodium | Rh | 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Results in | | oz/T | oz/T | oz/T | oz/T | oz/T |
| Majors as Oxides | | | | | | |
| Silicon | % SiO2 | 42.9 | 22.3 | 44.9 | 49.7 | 42.8 |
| Aluminum | %Al2O3 | 7.87 | 6.57 | 9.39 | 8.42 | 8.42 |
| Iron | %Fe2O3 | 33.0 | 42.7 | 29.6 | 26.3 | 31.2 |
| Calcium | % CaO | 0.73 | 0.73 | 1.2 | 0.59 | 0.74 |
| Magnesium | % MgO | 4.41 | 2.94 | 3.90 | 4.21 | 4.78 |
| Sodium | % Na2O | 0.35 | 0.26 | 0.47 | 0.41 | 0.36 |
| Potassium | % K2O | 0.29 | 0.37 | 0.40 | 0.32 | 0.24 |
| Barium | % BaO | 0.027 | 0.027 | 0.022 | 0.025 | 0.027 |
| Manganese | % MnO | 0.12 | 0.075 | 0.12 | 0.12 | 0.135 |
| Phosphorus | % P2O5 | 0.11 | 0.1 | 0.2 | 0.1 | 0.1 |
| Strontium | % SrO | 0.008 | 0.005 | 0.009 | 0.007 | 0.007 |
| Titanium | % TiO2 | 1.24 | 0.633 | 1.16 | 1.29 | 1.51 |
| Zirconium | % ZrO2 | 0.004 | 0.002 | 0.007 | 0.008 | 0.004 |
| Loss on Ignition | | 8.03 | 17.78 | 6.76 | 7.02 | 9.60 |
| Total Oxides | % | 99.2 | 94.5 | 98.1 | 99.0 | 99.9 |
| Total Carbon | %C | 0.19 | 0.11 | 0.05 | 0.20 | 0.21 |
| Total Sulfur | %S | 1.39 | 21.6 | 5.78 | 1.23 | 0.74 |

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| Sample type | | Tailings | Tailings | Tailings | Tailings | Tailings |
|---|---|---|---|---|---|---|
| Identification | | 123659 | 123660 | 123661 | 123662 | 123663 |
| Lab Reference # | | 9313-026 | 9313-027 | 9313-028 | 9313-029 | 9313-030 |
| Analyzed by Plasma Emission Spectroscopy (ICAP) | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| Trace Elements | | | | | | |
| Arsenic | As | < 30 | < 30 | < 30 | < 30 | < 30 |
| Boron | B | < 1. | < 1. | < 1. | < 1. | < 1. |
| Beryllium | Be | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Bismuth | Bi | < 20 | < 20 | < 20 | < 20 | < 20 |
| Cadmium | Cd | 1.1 | < 0.3 | 0.4 | < 0.3 | < 0.3 |
| Cobalt | Co | 293 | 18 | 79 | 19 | 47 |
| Chromium | Cr | 142. | 290. | 199. | 277. | 319. |
| Copper | Cu | 5840 | 1800 | 9430 | 2170 | 3520 |
| Mercury | Hg | < 10 | < 10 | < 10 | < 10 | < 10 |
| Molybdenum | Mo | < 3. | < 3. | < 3. | < 3. | < 3. |
| Nickel | Ni | 75. | 6. | 38. | 9. | 17. |
| Lead | Pb | < 5. | < 5. | < 5. | < 5. | < 5. |
| Antimony | Sb | < 10. | < 10. | < 10. | < 10. | < 10. |
| Selenium | Se | 40. | 30. | 10. | 20. | 20. |
| Thorium | Th | < 5. | < 5. | < 5. | < 5. | < 5. |
| Uranium | U | < 30 | < 30 | < 30 | < 30 | < 30 |
| Vanadium | V | 559. | 527. | 278. | 555. | 438. |
| Zinc | Zn | 555 | 120 | 518 | 164 | 175 |
| Results in | | ppm | ppm | ppm | ppm | ppm |
| Precious Metals by Fire Assay | | | | | | |
| Silver | Ag | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Gold | Au | 0.002 | 0.002 | 0.001 | 0.001 | 0.001 |
| Palladium | Pd | 0.0010 | 0.0006 | 0.0005 | 0.0010 | 0.0010 |
| Platinum | Pt | 0.003 | 0.002 | 0.002 | 0.002 | 0.002 |
| Rhodium | Rh | < 0.001 | < 0.001 | < 0.001 | 0.002 | 0.001 |
| Results in | | oz/T | oz/T | oz/T | oz/T | oz/T |
| Majors as Oxides | | | | | | |
| Silicon | % SiO2 | 34.2 | 40.9 | 51.6 | 44.4 | 44.3 |
| Aluminum | %Al2O3 | 8.10 | 8.50 | 11.9 | 9.16 | 10.0 |
| Iron | %Fe2O3 | 39.9 | 33.3 | 20.9 | 31.4 | 29.1 |
| Calcium | % CaO | 1.31 | 0.64 | 1.21 | 0.69 | 0.99 |
| Magnesium | % MgO | 3.34 | 4.29 | 5.31 | 4.75 | 5.13 |
| Sodium | % Na2O | 0.27 | 0.43 | 0.54 | 0.47 | 0.53 |
| Potassium | % K2O | 0.14 | 0.30 | 0.49 | 0.36 | 0.44 |
| Barium | % BaO | 0.018 | 0.028 | 0.035 | 0.028 | 0.035 |
| Manganese | % MnO | 0.10 | 0.13 | 0.14 | 0.13 | 0.14 |
| Phosphorus | % P2O5 | 0.08 | 0.12 | 0.18 | 0.11 | 0.10 |
| Strontium | % SrO | 0.007 | 0.008 | 0.01 | 0.008 | 0.01 |
| Titanium | % TiO2 | 1.04 | 1.28 | 1.20 | 1.30 | 1.30 |
| Zirconium | % ZrO2 | < 0.001 | 0.003 | 0.004 | 0.006 | 0.004 |
| Loss on Ignition | | 6.77 | 8.31 | 5.59 | 6.55 | 6.53 |
| Total Oxides | % | 95.3 | 98.3 | 98.8 | 99.0 | 99.1 |
| Total Carbon | %C | 0.01 | 0.10 | 0.23 | 0.10 | 0.09 |
| Total Sulfur | %S | 10.4 | 1.86 | 4.16 | 1.25 | 3.10 |

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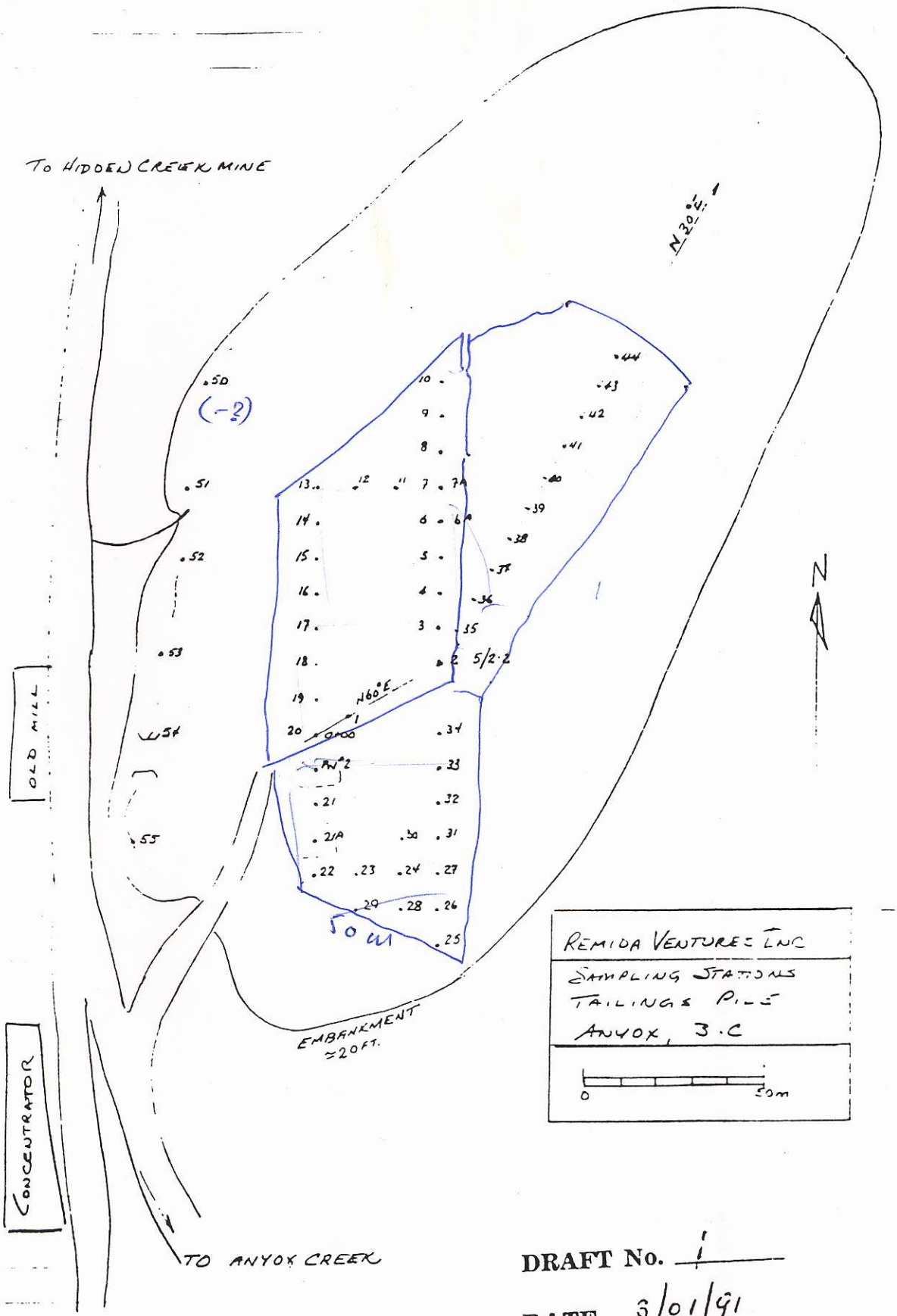
| Sample type | | Tailings | Tailings | Tailings | Tailings | Tailings |
|---|---|---|---|---|---|---|
| Identification | | 123664 | 123665 | 123666 | 123667 | CP-SC |
| Lab Reference # | | 9313-031 | 9313-032 | 9313-033 | 9313-034 | 9313-035 |
| Analyzed by Plasma Emission Spectroscopy (ICAP) | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| Trace Elements | | | | | | |
| Arsenic | As | < 30 | < 30 | < 30 | < 30 | < 30 |
| Boron | B | < 1. | < 1. | < 1. | < 1. | < 1. |
| Beryllium | Be | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Bismuth | Bi | < 20 | < 20 | < 20 | < 20 | < 20 |
| Cadmium | Cd | < 0.3 | < 0.3 | < 0.3 | < 0.3 | < 0.3 |
| Cobalt | Co | 218 | 67 | 118 | 140 | 426 |
| Chromium | Cr | 251. | 234. | 236. | 272. | 200. |
| Copper | Cu | 16400 | 3960 | 7520 | 3570 | 26500 |
| Mercury | Hg | < 10 | < 10 | < 10 | < 10 | < 10 |
| Molybdenum | Mo | 10. | 5. | < 3. | < 3. | 5. |
| Nickel | Ni | 16. | 26. | 17. | 47. | 12. |
| Lead | Pb | 12. | 22. | < 5. | < 5. | < 5. |
| Antimony | Sb | < 10. | < 10. | < 10. | < 10. | < 10. |
| Selenium | Se | 60. | 30. | 30. | 20. | 80. |
| THorium | Th | < 5. | < 5. | < 5. | < 5. | < 5. |
| Uranium | U | < 30. | < 30. | < 30. | < 30. | < 30. |
| Vanadium | V | 158. | 291. | 474. | 409. | 36. |
| Zinc | Zn | 178. | 245. | 303. | 382. | 440. |
| Results in | | ppm | ppm | ppm | ppm | ppm |
| Precious Metals by Fire Assay | | | | | | |
| Silver | Ag | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| Gold | Au | 0.010 | 0.002 | 0.003 | 0.001 | 0.039 |
| Palladium | Pd | 0.0006 | 0.0007 | 0.0010 | 0.0009 | 0.0010 |
| Platinum | Pt | 0.002 | 0.001 | 0.003 | 0.001 | 0.003 |
| Rhodium | Rh | < 0.001 | < 0.001 | 0.001 | < 0.001 | < 0.001 |
| Results in | | oz/T | oz/T | oz/T | oz/T | oz/T |
| Majors as Oxides | | | | | | |
| Silicon | % SiO2 | 33.3 | 45.1 | 30.7 | 42.2 | 13.4 |
| Aluminum | %Al2O3 | 5.12 | 10.2 | 9.13 | 12.7 | 0.96 |
| Iron | %Fe2O3 | 31.6 | 26.0 | 33.7 | 28.8 | 52.7 |
| Calcium | % CaO | 0.74 | 1.01 | 0.95 | 1.62 | 0.31 |
| Magnesium | % MgO | 2.89 | 4.96 | 4.16 | 5.89 | 0.37 |
| Sodium | % Na2O | 0.35 | 0.47 | 0.45 | 0.62 | 0.10 |
| Potassium | % K2O | 0.35 | 0.38 | 0.35 | 0.62 | 0.26 |
| Barium | % BaO | 0.038 | 0.036 | 0.030 | 0.038 | 0.020 |
| Manganese | % MnO | 0.076 | 0.13 | 0.12 | 0.17 | 0.021 |
| Phosphorus | % P2O5 | 0.11 | 0.20 | 0.19 | 0.18 | < 0.09 |
| Strontium | % SrO | 0.007 | 0.009 | 0.008 | 0.01 | < 0.002 |
| Titanium | % TiO2 | 0.84 | 1.14 | 1.08 | 1.28 | 0.28 |
| Zirconium | % ZrO2 | 0.003 | 0.02 | 0.02 | 0.02 | 0.010 |
| Loss on Ignition | | 16.71 | 7.77 | 9.33 | 2.71 | 27.97 |
| Total Oxides | % | 92.2 | 97.4 | 90.2 | 96.9 | 96.2 |
| Total Carbon | %C | 0.28 | 0.20 | 0.08 | 0.10 | 0.13 |
| Total Sulfur | %S | 24.0 | 3.76 | 6.84 | 5.85 | 45.2 |




DRAFT No. 1

DATE 3/01/91

5 TOXT. Blocks
ev 12500 SQ M

Average grade in top 1 meter: 0.17% Cu

Average grade in samples below 1 meter: 0.97% Cu

An estimate of the bulk volume based upon visiting the site and the value of the tailings pile was calculated. The method and results are listed below:

Length x Width x Depth = 1640 feet x 400 feet x 10 feet

= 6,560,000 cubic feet

@ 3.0 specific gravity = 1,181,000,000 pounds

= 590,000 short tons

Value of contained metals ($CDN):

Copper @ 0.97% = 5,730 short tons

@ $1.25/lb = $14,325,000

Gold @ 0.005 opt = 2,950 ounces

@ 400/oz = $1,180,000

Total value = $15.5 million

Assuming a recovery of 90% there may exist an economic unit with a value of $14 million less the recovery costs. Until such time as the complete sampling and metallurgical tests have been carried out, no firm estimates of recovery costs and the recoverable amounts can be calculated.

## CONCLUSIONS AND RECOMMENDATIONS

Anomolous values of copper and iron with minor zinc, gold and silver are present within the tailings. The copper content of the non-leached portion of the pile is 1%. The iron content averages 22%.

It is recommended that the samples acquired to date be submitted to metallurgical and mineralogical examination to determine the content and the potential method of copper recovery.

It is recommended that a comprehensive sampling program utilizing a power auger mounted on a backhoe be carried out to determine the overall content of the tailings pile and the dumps. This will involve laying out a grid on the tailings, boring sample holes to a depth sufficient to test through the pile, sampling the borehole cuttings and assaying the samples.

ESTIMATED COST OF PHASE II SAMPLING PROGRAM

Part 1.

| | |
|---|---|
| Mobilization, demobilization of 5 man field crew and equipment, Vancouver to Anyox | $ 15,000 |
| Camp costs, rehabilitation | 10,000 |
| Camp operation @ $30/man/day | 9,000 |
| Labour | 30,000 |
| Equipment rental and/or purchase | 30,000 |
| Assays | 25,000 |
| Supervision | 4,500 |
| Total Part 1. | $124,500 |

Part 2.

| | |
|---|---|
| Metallurgical testing | 10,000 |
| Supervision | 5,000 |
| Consulting, preparation, report preparation | 8,000 |
| Total Part 2. | $27,000 |
| TOTAL | $151,500 |

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# APPENDIX B

## Analysis of Tailings, Water and Ore Samples,1988

Quanta trace laboratories inc.
#401-3700 Bilmore Way, Burnaby, B.C., Canada V5B 4M1 Tel:(604) 438-5226

Pacific GeoRock Exploration Ltd W/O: 8988 Page 3

| Sample type | | Water | Water | Water | Water | Water |
|---|---|---|---|---|---|---|
| Identification | | A1 | A2 | A3 | A4 | A5 |
| Lab Reference # | | 8988-001 | 8988-002 | 8988-003 | 8988-004 | 8988-005 |
| **Precious Metals** | | | | | | |
| Gold | Au | - | - | - | - | < 0.1 |
| Palladium | Pd | - | - | - | - | 0.58 |
| Platinum | Pt | - | - | - | - | 0.45 |
| Rhodium | Rh | - | - | - | - | 0.52 |
| Iridium | Ir | - | - | - | - | < 0.05 |
| Ruthenium | Ru | - | - | - | - | 0.46 |
| Osmium | Os | - | - | - | - | < 0.1 |
| **Miscellaneous Trace Metals** | | | | | | |
| Gallium | Ga | - | - | - | - | 0.6 |
| Indium | In | - | - | - | - | 4.4 |
| Thallium | Tl | - | - | - | - | 0.27 |
| Rhenium | Re | - | - | - | - | < 0.1 |
| Germanium | Ge | - | - | - | - | 0.43 |
| Results in | | ppb | ppb | ppb | ppb | ppb |

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Pacific GeoRock Exploration Ltd W/O: 8988 

| Sample type | | Water | Water | Water | Water |
|---|---|---|---|---|---|
| Identification | | A6 | A7 | A8 | Britannia |
| pH | | 3.7 | 3.7 | 3.9 | 3.9 |
| Lab Reference # | | 8988-006 | 8988-007 | 8988-008 | 8990-005 |
| Analyzed by Plasma Emission Spectroscopy (ICAP) | | | | | |
| Method used | | Total | Total | Total | Total |
| Aluminum | Al | 2.41 | 3.05 | 2.10 | 12.5 |
| Antimony | Sb | < 0.05 | < 0.05 | < 0.05 | 0.05 |
| Arsenic | As | < 0.2 | < 0.2 | < 0.2 | 0.2 |
| Barium | Ba | 0.009 | 0.009 | 0.007 | 0.004 |
| Beryllium | Be | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Boron | B | 0.04 | 0.05 | < 0.01 | < 0.01 |
| Cadmium | Cd | < 0.002 | < 0.002 | < 0.002 | 0.045 |
| Calcium | Ca | 15.5 | 17.1 | 35.3 | 169. |
| Chromium | Cr | < 0.002 | 0.003 | 0.003 | < 0.002 |
| Cobalt | Co | 0.010 | 0.007 | < 0.005 | 0.044 |
| Copper | Cu | 0.595 | 0.570 | 0.488 | 4.73 |
| Iron | Fe | 3.40 | 3.79 | 3.49 | 10.5 |
| Lead | Pb | < 0.02 | < 0.02 | < 0.02 | 0.04 |
| Lithium | Li | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Magnesium | Mg | 12.4 | 6.89 | 85.0 | 36.8 |
| Manganese | Mn | 0.123 | 0.158 | 0.095 | 2.65 |
| Mercury | Hg | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Molybdenum | Mo | < 0.01 | < 0.01 | < 0.01 | < 0.01 |
| Nickel | Ni | < 0.005 | < 0.005 | < 0.005 | 0.035 |
| Phosphorus | P | 0.12 | 0.12 | 0.05 | 0.09 |
| Potassium | K | 4.4 | 1.9 | 31.6 | 0.9 |
| Selenium | Se | < 0.05 | < 0.05 | < 0.05 | 0.07 |
| Silicon | Si | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Sodium | Na | 92.9 | 39.0 | 706. | 6.59 |
| Strontium | Sr | 0.097 | 0.069 | 0.539 | 1.10 |
| Thorium | Th | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Titanium | Ti | 0.007 | 0.004 | 0.002 | 0.016 |
| Uranium | U | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Vanadium | V | 0.006 | 0.003 | 0.028 | 0.010 |
| Zinc | Zn | 0.203 | 0.243 | 0.172 | 9.72 |
| Zirconium | Zr | < 0.005 | < 0.005 | < 0.005 | < 0.005 |
| Results in | | mg/l | mg/l | mg/l | mg/l |

**ouarta trace laboratories inc.**
#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4Y1 Tel:(604)438-5335

# ANALYSIS OF ENVIRONMENTAL SAMPLES

To: Pacific GeoRock Exploration Ltd
256 - 409 Granville Street
Vancouver, B.C.
V6C 1T5

Workorder: 8988
Received : 05-Apr-88
Completed: 08-Apr-88

Attn: Mr. S. Buchan

Re: Chemical Analysis of Anyox Water Samples

| Sample type | | Water | Water | Water | Water | Water |
|---|---|---|---|---|---|---|
| Identification | | A1 | A2 | A3 | A4 | A5 |
| pH | | 3.9 | 5.9 | 4.1 | 4.0 | 3.3 |
| Lab Reference # | | 8988-001 | 8988-002 | 8988-003 | 8988-004 | 8988-005 |
| Analyzed by Plasma Emission Spectroscopy (ICAP) | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| Aluminum | Al | 1.94 | 0.15 | 0.94 | 1.05 | 4.85 |
| Antimony | Sb | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.25 |
| Arsenic | As | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Barium | Ba | 0.007 | 0.008 | 0.008 | 0.008 | 0.033 |
| Beryllium | Be | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Boron | B | < 0.01 | 0.04 | 0.04 | 0.05 | 0.01 |
| Cadmium | Cd | < 0.002 | < 0.002 | < 0.002 | < 0.002 | 0.005 |
| Calcium | Ca | 32.4 | 2.71 | 2.36 | 2.75 | 8.85 |
| Chromium | Cr | 0.010 | 0.003 | < 0.002 | < 0.002 | 0.004 |
| Cobalt | Co | < 0.005 | < 0.005 | < 0.005 | 0.008 | 0.044 |
| Copper | Cu | 0.510 | 0.079 | 0.547 | 0.553 | 2.75 |
| Iron | Fe | 3.42 | 0.592 | 1.98 | 2.16 | 16.9 |
| Lead | Pb | < 0.02 | < 0.02 | < 0.02 | < 0.02 | < 0.03 |
| Lithium | Li | < 0.05 | < 0.05 | 0.12 | < 0.05 | < 0.05 |
| Magnesium | Mg | 77.2 | 0.29 | 0.55 | 0.58 | 4.07 |
| Manganese | Mn | 0.093 | 0.019 | 0.027 | 0.032 | 0.151 |
| Mercury | Hg | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Molybdenum | Mo | < 0.01 | < 0.01 | < 0.01 | 0.02 | 0.01 |
| Nickel | Ni | 0.008 | < 0.005 | < 0.005 | < 0.005 | 0.015 |
| Phosphorus | P | 0.07 | < 0.05 | 0.12 | 0.08 | 0.08 |
| Potassium | K | 28.3 | 0.4 | 0.4 | < 0.2 | 1.3 |
| Selenium | Se | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.05 |
| Silicon | Si | < 0.05 | 0.06 | < 0.05 | 0.65 | < 0.05 |
| Sodium | Na | 673. | 1.19 | 0.82 | 0.74 | 13.5 |
| Strontium | Sr | 0.478 | 0.012 | 0.008 | 0.010 | 0.040 |
| Thorium | Th | < 0.05 | < 0.05 | < 0.05 | < 0.05 | < 0.25 |
| Titanium | Ti | 0.021 | 0.007 | 0.021 | 0.012 | 0.042 |
| Uranium | U | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Vanadium | V | 0.034 | < 0.002 | < 0.002 | < 0.002 | 0.006 |
| Zinc | Zn | 0.174 | 0.011 | 0.077 | 0.085 | 0.218 |
| Zirconium | Zr | < 0.025 | < 0.025 | < 0.025 | < 0.025 | < 0.125 |
| Results in | | mg/l | mg/l | mg/l | mg/l | mg/l |

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401-3700 Bilmore Way, Burnaby, B.C., Canada V5G-4M1 Tele (604) 438-5225

To: Pacific GeoRock Exploration Ltd W/O: 8988 Page 4

| Sample type | Water | Water | water | Water |
|---|---|---|---|---|
| Identification | A6 | A7 | A8 | Britannia |
| pH | 3.7 | 3.7 | 3.9 | 3.9 |
| Lab Reference # | 8988-006 | 8988-007 | 8988-008 | 8990-005 |
| **Precious Metals** | | | | |
| Gold Au | - | - | - | 1.2 |
| Palladium Pd | - | - | - | 2.0 |
| Platinum Pt | - | - | - | 0.77 |
| Rhodium Rh | - | - | - | 0.90 |
| Iridium Ir | - | - | - | 0.15 |
| Ruthenium Ru | - | - | - | 2.4 |
| Osmium Os | - | - | - | 0.48 |
| **Miscellaneous Trace Elements** | | | | |
| Gallium Ga | - | - | - | 33. |
| Indium In | - | - | - | 7.4 |
| Thallium Tl | - | - | - | 0.04 |
| Rhenium Re | - | - | - | 0.24 |
| Germanium Ge | - | - | - | 29. |
| Results in | ppb | ppb | ppb | ppb |

Remarks

1. Samples with higher Sodium values have some mixing of seawater (tide) with the creek water.

2. Note that the sample nearer the mine (#5) is much higher in copper.

3. Note that the analysis of Sample 5 is very similar to the sample from Britannia in most respects.

4. Note that same 5 and the Britannia contain low concentrations of Platinum Group Metals.

5. Britannia Mines produced Cement Copper from Britannia Creek for many years. Typically, depending on dilution from rainfall etc., the feed into the pond ran 4 to 5 gpm Copper. The Cement Copper product typically ran 30 % Copper and 5 % Sulfur. THis product commanded a premium price from smelters because of the low Sulfur content with associated environmental problems. Our personnel conducted chemical analyses for Britannia over a 10 year period.

6. We would recommend that more samples be taken closer to the mine and we would expect higher Copper values. The results would also be expected to be higher during the summer when the creek is not diluted by rain or snowfall.

7. Note that all samples are acid water. This acidity is caused by high sulfate (Sulfuric Acid) content and is a typical acid mine drainage condition.

/5...

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8. A large number of trace metals are present in the water. If these samples are taken again we will analyze the sample for an expanded list of metals including rare earths and Tellurium.

9. We would expect that a Cementation system could be set up at Anyox which would be very similar and parallel to Britannia because the chemistry is so similar.

Quanta Trace Laboratories Inc

Derrel Dixon BSc.
Certified Assayer

**quanta trace laboratories Inc.**
11-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1 Tel: (604) 438-5335

## ANALYSIS OF GEOLOGICAL SAMPLES

To: Pacific GeoRock Exploration Ltd
256 - 409 Granville Street
Vancouver, B.C.
V6C 1T5

Workorder: 8987
Received : 02-Apr-88
Completed: 14-Apr-88

Attn: Mr. S. Buchan

Re: Chemical Analysis of Anyox Samples from Mr. D. Javorsky

Sample Identification

| | |
|---|---|
| AR-1 | Concentrates from Old Tub in Concentrator Tailings Pond |
| AR-2 | Green Oxide from Concentrator Building |
| AR-3 | Metallics from Concentrator Tailings Dump ( Ted's Cow Flap) |
| AR-4 | Blue Sulfide Mud from below Concentrator 50 M to NE at Wooden Pipe 1' deep sample |
| AR-5 | Concentrator Tailings Mud Layer - Blue, Black, Yellow, Brown 75 M North of Concentrator Building |
| AR-6 | Anyox Concentrator Feed - Note sample contained metallics that were assayed separately. |

/2...

quanta trace laboratories Inc.
#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4M1 Tel: (604) 438-5226

To: Pacific GeoRock Exploration Ltd W/O: 8987 Page 2

| Sample type | Ore | Ore | Ore | Ore | Ore |
|---|---|---|---|---|---|
| Identification | AR1 | AR2 | AR3 | AR4 | AR5 |
| Lab Reference # | 8987-001 | 8987-002 | 8987-003 | 8987-004 | 8987-005 |
| **Analyzed by Plasma Emission Spectroscopy (ICAP)** | | | | | |
| Method used | Total | Total | Total | Total | Total |
| **Trace Elements** | | | | | |
| Arsenic As | < 30 | < 30 | < 30 | 90 | 200 |
| Boron B | < 1. | < 1. | < 1. | < 1. | < 1. |
| Beryllium Be | < 0.2 | < 0.2 | < 0.2 | < 0.2 | < 0.2 |
| Bismuth Bi | < 20 | < 20 | < 20 | < 20 | < 20 |
| Cadmium Cd | < 0.3 | 2.0 | 1140. | 6.4 | 4.8 |
| Cobalt Co | 130 | 110 | 10 | 246 | 170 |
| Chromium Cr | 151. | 74. | 66. | 154. | 139. |
| Copper Cu | 3640 | 20000 | 3610 | 26100 | 29200 |
| Mercury Hg | < 10 | < 10 | < 10 | < 10 | < 10 |
| Molybdenum Mo | 11 | 4 | < 3 | 10 | 12 |
| Nickel Ni | 39 | 43 | 51 | 33 | 37 |
| Lead Pb | 59 | 105 | 37100 | 55 | 82 |
| Antimony Sb | < 10 | < 10 | < 10 | < 10 | < 10 |
| Selenium Se | < 10 | < 10 | < 10 | < 10 | < 10 |
| Thorium Th | < 5. | < 5. | < 5. | < 5. | < 5. |
| Uranium U | < 30 | < 30 | < 30 | < 30 | < 30 |
| Vanadium V | 92. | 61. | 20. | 84. | 147. |
| Zinc Zn | 4050 | 1690 | 762000 | 28400 | 2060 |
| Results in | ppm | ppm | ppm | ppm | ppm |
| **Precious Metals by Fire Assay** | | | | | |
| Silver Ag | 0.4 | 0.3 | 0.4 | 0.1 | 0.3 |
| Gold Au | 0.003 | 0.002 | 0.002 | 0.005 | 0.005 |
| Palladium Pd | 0.0010 | 0.0012 | 0.0008 | 0.0009 | 0.0010 |
| Platinum Pt | 0.0012 | 0.0019 | 0.0011 | 0.0010 | 0.0014 |
| Rhodium Rh | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Results in | oz/T | oz/T | oz/T | oz/T | oz/T |
| **Majors as Oxides** | | | | | |
| Silicon % $SiO_2$ | 27.7 | 19.3 | 3.61 | 32.4 | 35.1 |
| Aluminum % $Al_2O_3$ | 3.85 | 3.13 | 0.71 | 3.71 | 3.99 |
| Iron % $Fe_2O_3$ | 43.7 | 18.5 | 3.17 | 29.1 | 30.3 |
| Calcium % CaO | 4.10 | 5.22 | 0.49 | 0.80 | 1.10 |
| Magnesium % MgO | 1.10 | 2.49 | 0.24 | 1.84 | 1.99 |
| Sodium % $Na_2O$ | 0.19 | 0.64 | 0.04 | 0.37 | 0.39 |
| Potassium % $K_2O$ | 0.38 | 0.49 | < 0.06 | 0.40 | 0.46 |
| Barium % BaO | 0.079 | 0.051 | 0.006 | 0.039 | 0.046 |
| Manganese % MnO | 0.049 | 0.049 | 0.037 | 0.052 | 0.068 |
| Phosphorus % $P_2O_5$ | 0.09 | 0.05 | < 0.05 | 0.06 | 0.20 |
| Strontium % SrO | 0.013 | 0.009 | 0.001 | 0.007 | 0.009 |
| Titanium % $TiO_2$ | 0.28 | 0.24 | 0.049 | 0.62 | 0.752 |
| Zirconium % $ZrO_2$ | 0.019 | 0.019 | 0.019 | 0.020 | 0.019 |
| Loss on Ignition | 11.11 | 29.23 | < 0.01 | 16.85 | 12.59 |
| Total Oxides % | 92.64 | 79.46 | 8.37 | 86.31 | 87.01 |
| Total Carbon %C | 0.08 | 0.45 | 0.76 | 0.44 | 0.33 |
| Total Sulfur %S | 5.15 | 13.3 | 0.68 | 24.8 | 19.5 |

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Pacific GeoRock Exploration W/O: 8987 - Page 3

| Sample type | Ore | Metallics |
|---|---|---|
| Identification | AR6 -100 | AR6 +100 |
| Lab Reference # | 8987-006 | 8987-006B |
| **Analyzed by Plasma Emission Spectroscopy (ICAP)** | | |
| Method used | Total | AR Soluble |
| **Trace Elements** | | |
| Arsenic As | 200 | < 100 |
| Boron B | < 1. | < 3. |
| Beryllium Be | < 0.2 | < 0.3 |
| Bismuth Bi | < 20 | < 70 |
| Cadmium Cd | 23.4 | 1100 |
| Cobalt Co | 61 | 20 |
| Chromium Cr | 60. | 15. |
| Copper Cu | 22200 | 4120 |
| Mercury Hg | < 10 | < 30 |
| Molybdenum Mo | < 3 | < 10 |
| Nickel Ni | 39 | 32. |
| Lead Pb | 570 | 12600 |
| Antimony Sb | < 20 | < 30 |
| Selenium Se | < 20 | < 30 |
| Thorium Th | < 5 | < 20 |
| Uranium U | < 30 | < 100 |
| Vanadium V | 125. | 12. |
| Zinc Zn | 9560 | 800000 |
| Results in | ppm | ppm |
| **Precious Metals** | | |
| Silver Ag | 0.6 | 11.0 |
| Gold Au | 0.005 | < 1. |
| Palladium Pd | 0.0010 | 3.0 |
| Platinum Pt | 0.0021 | 12.0 |
| Rhodium Rh | < 0.001 | < 5. |
| Results in | oz/T | ppm |
| **Majors as Oxides** | | |
| Silicon % SiO2 | 19.8 | - |
| Aluminum %Al2O3 | 4.67 | 0.92 |
| Iron %Fe2O3 | 39.1 | 7.12 |
| Calcium % CaO | 5.02 | 0.48 |
| Magnesium % MgO | 1.30 | 0.29 |
| Sodium % Na2O | 0.20 | 0.021 |
| Potassium % K2O | 0.35 | 0.07 |
| Barium % BaO | 0.084 | 0.031 |
| Manganese % MnO | 0.069 | 0.045 |
| Phosphorus% P2O5 | 0.05 | < 0.01 |
| Strontium % SrO | 0.006 | 0.001 |
| Titanium % TiO2 | 0.489 | 0.015 |
| Zirconium % ZrO2 | 0.021 | < 0.001 |
| Loss on Ignition | 14.08 | - |
| Total Oxides % | 85.27 | 9.0 |
| Total Carbon %C | 0.77 | - |
| Total Sulfur %S | 23.8 | - |

Reserve

Ore to sample: 17.8

# quanta trade laboratories inc.

#401-3700 Gilmore Way, Burnaby, B.C., Canada V5G 4Y1 Tel:(604)438-5226

To: Pacific GeoRock Exploration Ltd. W/O: 9316 Page 2

| Sample type | | Ore | Ore | Ore | Ore | Ore |
|---|---|---|---|---|---|---|
| Identification | | X-1 | X-2 | X-3 | F-1 | F-2 |
| Lab Reference # | | 9316-001 | 9316-002 | 9316-003 | 9316-004 | 9316-005 |
| Analyzed by Plasma Emission Spectroscopy (ICAP) | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| Trace Elements | | | | | | |
| Arsenic | As | < 30 | 120. | < 30 | < 30 | 240. |
| Boron | B | < 1. | < 1. | < 1. | < 1. | < 1. |
| Beryllium | Be | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Bismuth | Bi | < 20 | < 20 | < 20 | < 20 | < 20 |
| Cadmium | Cd | 4.4 | 23.4 | < 0.3 | 10.4 | 24.7 |
| Cobalt | Co | 510. | 700. | < 1. | 38. | 592. |
| Chromium | Cr | 150 | 48. | 100 | 469. | 14. |
| Copper | Cu | 220000 | 500000 | 5780 | 55000 | 540000 |
| Mercury | Hg | < 10 | < 10 | 2800 | < 10 | < 10 |
| Molybdenum | Mo | 7. | < 3. | < 3. | < 3. | < 3. |
| Nickel | Ni | 140. | 1640. | 10. | 79. | 1810. |
| Lead | Pb | 778. | 729. | 132. | 401. | 946. |
| Antimony | Sb | < 10. | < 10. | < 10. | < 10. | < 10. |
| Selenium | Se | 70. | 240. | 600. | 20. | 260. |
| Thorium | Th | < 5. | < 5. | < 5. | < 5. | < 5. |
| Uranium | U | < 30 | < 30 | < 30 | < 30 | < 30 |
| Vanadium | V | 9. | 5. | 15. | 8. | 5. |
| Zinc | Zn | 10700 | 2330 | 198. | 2040 | 1760 |
| Results in | | ppm | ppm | ppm | ppm | ppm |
| Precious Metals by Fire Assay | | | | | | |
| Silver | Ag | 4.96 | 15.6 | 0.32 | 1.18 | 17.6 |
| Gold | Au | 0.074 | 0.376 | 0.005 | 0.022 | 0.395 |
| Palladium | Pd | 0.002 | 0.017 | 0.002 | 0.002 | 0.024 |
| Platinum | Pt | 0.006 | 0.007 | 0.003 | 0.009 | 0.009 |
| Rhodium | Rh | 0.002 | 0.003 | < 0.001 | 0.001 | 0.002 |
| Results in | | oz/T | oz/T | oz/T | oz/T | oz/T |
| Majors as Oxides | | | | | | |
| Silicon | % SiO2 | 6.44 | 5.09 | 24.4 | 14.8 | 4.57 |
| Aluminum | %Al2O3 | 0.87 | 0.46 | 5.93 | 2.70 | 0.44 |
| Iron | %Fe2O3 | 51.7 | 18.5 | 2.78 | 31.9 | 14.8 |
| Calcium | % CaO | 0.30 | 0.20 | 14.4 | 2.51 | 0.31 |
| Magnesium | % MgO | 0.21 | 0.11 | 0.61 | 15.1 | 0.20 |
| Sodium | % Na2O | 0.09 | 0.07 | 1.40 | 0.41 | 0.10 |
| Potassium | % K2O | 0.31 | 0.09 | 1.40 | 0.51 | 0.19 |
| Barium | % BaO | 0.011 | 0.011 | 0.089 | 0.043 | 0.006 |
| Manganese | % MnO | 0.055 | 0.02 | 0.02 | 0.12 | 0.01 |
| Phosphorus | % P2O5 | < 0.09 | < 0.08 | < 0.09 | 0.10 | 0.09 |
| Strontium | % SrO | < 0.002 | < 0.002 | 0.040 | 0.010 | < 0.002 |
| Titanium | % TiO2 | 0.057 | 0.036 | 0.22 | 0.15 | 0.032 |
| Zirconium | % ZrO2 | 0.01 | 0.02 | 0.02 | 0.01 | 0.01 |
| Loss on Ignition | | 6.84 | 10.33 | 25.33 | 22.18 | 9.86 |
| Total Oxides | % | 66.9 | 35.05 | 76.58 | 90.55 | 30.3 |
| Total Carbon | %C | 0.21 | 0.09 | 0.33 | 2.34 | 0.21 |
| Total Sulfur | %S | 17.7 | 15.8 | 21.4 | 4.13 | 13.6 |

# APPENDIX A

## Certificate

# CERTIFICATE

I, Barry L. Whelan, of the city of North Vancouver in the Province of British Columbia, do hereby declare:

1. I am a consulting geologist with an office at #16, 1450 Chesterfield Avenue, North Vancouver, British Columbia, V7M 2N4.
2. I am a graduate of the University of Western Ontario (1961) and McMaster University (1965) and hold a Bachelor of Arts degree and a Bachelor of Science degree in Geology.
3. I am a Fellow of the Geological Association of Canada, and a Professional Geologist of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
4. I have been involved for the past twenty five years in exploration and production programs throughout North America, Africa and Europe.
5. This report is based upon material gathered from public and corporate files, and the work carried out on site under my supervision.
6. I hold no interest, direct or indirect, in the property, nor in any securities of Remida Ventures Inc. or any associated companies.
7. This report may be utilized by Remida Ventures Inc. for its corporate purposes and submission to the regulatory authorities.

Signed at Vancouver

Date

Barry L. Whelan, P. Geol., F.G.A.C.

**quanta trace laboratories inc.**
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To: Pacific GeoRock Exploration Ltd. W/O: 9316 Page 3

Metallic

| Sample type | | Ore | Ore | Ore | Ore | Ore |
|---|---|---|---|---|---|---|
| Identification | | F-3 | F-4 | F-5 | AR-1 | PPC-1 |
| Lab Reference # | | 9316-006 | 9316-007 | 9316-008 | 9316-009 | 9316-010 |
| **Analyzed by Plasma Emission Spectroscopy (ICAP)** | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| **Trace Elements** | | | | | | |
| Arsenic | As | < 30 | < 30 | < 30 | < 30 | < 30 |
| Boron | B | < 1. | < 1. | < 1. | < 1. | < 1. |
| Beryllium | Be | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Bismuth | Bi | < 20 | < 20 | < 20 | < 20 | < 20 |
| Cadmium | Cd | < 0.3 | < 0.3 | 0.4 | < 0.3 | < 0.3 |
| Cobalt | Co | 307 | 405 | 228 | 8. | 67. |
| Chromium | Cr | 81. | 472. | 110 | 316. | 95. |
| Copper | Cu | 101000 | 103000 | 142000 | 1430 | 11100 |
| Mercury | Hg | < 10 | < 10 | < 10 | < 10 | < 10 |
| Molybdenum | Mo | < 3. | 4. | < 3. | < 3. | < 3. |
| Nickel | Ni | 62. | 290 | 310 | 11. | 40. |
| Lead | Pb | 391. | 327. | 168. | 10. | < 5. |
| Antimony | Sb | < 10. | < 10. | < 10. | < 10. | < 10. |
| Selenium | Se | 30. | 20. | 40. | < 10. | < 10. |
| Thorium | Th | < 5. | < 5. | < 5. | < 5. | 5. |
| Uranium | U | < 30 | < 30 | < 30 | < 30 | < 30 |
| Vanadium | V | 33. | 25. | 31. | 10. | 78. |
| Zinc | Zn | 11100 | 7500 | 5440 | 197 | 984. |
| Results in | | ppm | ppm | ppm | ppm | ppm |
| **Precious Metals by Fire Assay** | | | | | | |
| Silver | Ag | 4.40 | 2.80 | 5.42 | 0.28 | 0.16 |
| Gold | Au | 0.125 | 0.054 | 0.128 | 0.014 | 0.005 |
| Palladium | Pd | 0.002 | 0.002 | 0.002 | 0.001 | 0.003 |
| Platinum | Pt | 0.005 | 0.005 | 0.005 | 0.003 | 0.006 |
| Rhodium | Rh | < 0.001 | < 0.00 | < 0.001 | < 0.001 | 0.003 |
| Results in | | oz/T | oz/T | oz/T | oz/T | oz/T |
| **Majors as Oxides** | | | | | | |
| Silicon | % SiO2 | 26.3 | 15.0 | 22.6 | 86. | 38.0 |
| Aluminum | %Al2O3 | 3.05 | 1.71 | 2.54 | 0.56 | 4.66 |
| Iron | %Fe2O3 | 56.8 | 58.4 | 56.1 | 3.31 | 43.7 |
| Calcium | % CaO | 1.81 | 0.48 | 1.20 | 0.09 | 3.31 |
| Magnesium | % MgO | 0.75 | 0.43 | 0.63 | 0.08 | 3.44 |
| Sodium | % Na2O | 0.20 | 0.21 | 0.21 | 0.09 | 0.30 |
| Potassium | % K2O | 0.81 | 0.60 | 0.48 | 0.10 | 0.38 |
| Barium | % BaO | 0.063 | 0.037 | 0.043 | 0.004 | 0.01 |
| Manganese | % MnO | 0.057 | 0.044 | 0.056 | 0.009 | 0.12 |
| Phosphorus | % P2O5 | 0.11 | < 0.09 | < 0.09 | < 0.09 | 0.10 |
| Strontium | % SrO | 0.009 | 0.003 | 0.004 | < 0.002 | 0.004 |
| Titanium | % TiO2 | 0.19 | 0.12 | 0.20 | 0.03 | 0.41 |
| Zirconium | % ZrO2 | 0.02 | 0.02 | 0.006 | 0.01 | 0.008 |
| Loss on Ignition | | < 0.01 | 5.15 | 5.83 | 5.36 | 8.98 |
| **Total Oxides** | % | 90.2 | 82.1 | 89.9 | 96.4 | 98.2 |
| **Total Carbon** | %C | 0.01 | 0.15 | 0.28 | 0.12 | 0.13 |
| **Total Sulfur** | %S | 6.05 | 8.71 | 6.50 | 0.07 | 21.6 |

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To: Pacific GeoRock Exploration Ltd. W/O: 9313 Page 2

| Sample type | | Tailings | Tailings | Tailings | Tailings | Tailings |
|---|---|---|---|---|---|---|
| Identification | | CP-1A | CP-1B | CP-1C | CP-2 | CP-3A |
| Lab Reference # | | 9313-001 | 9313-002 | 9313-003 | 9313-004 | 9313-005 |
| Analyzed by Plasma Emission Spectroscopy (ICAP) | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| Trace Elements | | | | | | |
| Arsenic | As | < 30 | < 30 | < 30 | < 30 | < 30 |
| Boron | B | < 1. | < 1. | < 1. | < 1. | < 1. |
| Beryllium | Be | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Bismuth | Bi | < 20 | < 20 | < 20 | < 20 | < 20 |
| Cadmium | Cd | < 0.3 | < 0.3 | < 0.3 | < 0.3 | 11.6 |
| Cobalt | Co | 9. | 5. | < 1. | 18. | 380. |
| Chromium | Cr | 176. | 176. | 147. | 219. | 111. |
| Copper | Cu | 464 | 592 | 950 | 2840 | 50800 |
| Mercury | Hg | < 10 | < 10 | < 10 | < 10 | < 10 |
| Molybdenum | Mo | < 3. | 3. | < 3. | < 3. | < 3. |
| Nickel | Ni | 11. | 23. | 8. | 8. | 60. |
| Lead | Pb | < 5. | < 5. | < 5. | < 5. | 38. |
| Antimony | Sb | < 10. | < 10. | < 10. | < 10. | < 10. |
| Selenium | Se | 20. | 40. | 40. | 30. | 50. |
| Thorium | Th | < 5. | < 5. | < 5. | < 5. | < 5. |
| Uranium | U | < 30. | < 30. | < 30. | < 30. | < 30. |
| Vanadium | V | 412. | 436. | 475. | 756. | 42. |
| Zinc | Zn | 105. | 92. | 112. | 218. | 4740. |
| Results in | | ppm | ppm | ppm | ppm | ppm |
| Precious Metals by Fire Assay | | | | | | |
| Silver | Ag | 0.1 | 0.4 | 0.4 | 0.2 | 0.4 |
| Gold | Au | 0.0006 | 0.007 | 0.001 | 0.001 | 0.009 |
| Palladium | Pd | 0.0004 | 0.0006 | < 0.0004 | 0.0006 | 0.0010 |
| Platinum | Pt | 0.001 | 0.022 | 0.007 | 0.002 | 0.008 |
| Rhodium | Rh | < 0.001 | < 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Results in | | oz/T | oz/T | oz/T | oz/T | oz/T |
| Majors as Oxides | | | | | | |
| Silicon | % SiO2 | 45.5 | 43.1 | 37.7 | 41.1 | 17.7 |
| Aluminum | %Al2O3 | 7.98 | 6.52 | 5.71 | 5.92 | 1.63 |
| Iron | %Fe2O3 | 29.7 | 33.6 | 35.8 | 40.6 | 40.5 |
| Calcium | % CaO | 0.62 | 1.10 | 1.10 | 0.90 | 0.57 |
| Magnesium | % MgO | 5.36 | 4.45 | 3.90 | 3.39 | 0.71 |
| Sodium | % Na2O | 0.35 | 0.22 | 0.18 | 0.33 | 0.20 |
| Potassium | % K2O | 0.24 | 0.17 | 0.13 | 0.26 | 0.23 |
| Barium | % BaO | 0.026 | 0.024 | 0.020 | 0.035 | 0.030 |
| Manganese | % MnO | 0.14 | 0.14 | 0.13 | 0.11 | 0.033 |
| Phosphorus | % P2O5 | 0.10 | 0.10 | 0.10 | 0.10 | < 0.05 |
| Strontium | % SrO | 0.007 | 0.006 | 0.005 | 0.007 | 0.003 |
| Titanium | % TiO2 | 1.41 | 1.50 | 1.43 | 1.24 | 0.478 |
| Zirconium | % ZrO2 | 0.006 | 0.005 | 0.004 | 0.006 | 0.003 |
| Loss on Ignition | | 6.21 | 7.33 | 7.51 | 5.84 | 19.51 |
| Total Oxides | % | 98.2 | 98.0 | 98.2 | 100. | 81.6 |
| Total Carbon | %C | 0.09 | 0.11 | 0.08 | 0.19 | 0.20 |
| Total Sulfur | %S | 0.78 | 1.33 | 1.59 | 1.81 | 32.2 |

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To: Pacific GeoRock Exploration Ltd. W/O: 9313 Page 3

| Sample type | | Tailings | Tailings | Tailings | Tailings | Tailings |
|---|---|---|---|---|---|---|
| Identification | | CP-3B | CP-3C | CP-4 | CP-5A | CP-5B |
| Lab Reference # | | 9313-006 | 9313-007 | 9313-008 | 9313-009 | 9313-010 |
| Analyzed by Plasma Emission Spectroscopy (ICAP) | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| **Trace Elements** | | | | | | |
| Arsenic | As | < 30 | < 30 | 60 | 60 | < 30 |
| Boron | B | < 1. | < 1. | < 1. | < 1. | < 1. |
| Beryllium | Be | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Bismuth | Bi | < 20 | < 20 | < 20 | < 20 | < 20 |
| Cadmium | Cd | 7.0 | 6.0 | < 0.3 | < 0.3 | < 0.3 |
| Cobalt | Co | 625. | 216. | 17 | 4 | 201. |
| Chromium | Cr | 96. | 140. | 231. | 215. | 189. |
| Copper | Cu | 44500 | 22400 | 4790 | 2800 | 21500 |
| Mercury | Hg | < 10 | < 10 | < 10 | < 10 | < 10 |
| Molybdenum | Mo | < 3. | 7. | 17. | 22. | 9. |
| Nickel | Ni | 32. | 29. | 10. | 9. | 12. |
| Lead | Pb | < 5. | 48. | 157. | 82. | 41. |
| Antimony | Sb | < 10. | < 10. | < 10. | < 10. | < 10. |
| Selenium | Se | 60. | 20. | 60. | 80. | 40. |
| Thorium | Th | < 5. | < 5. | < 5. | < 5. | < 5. |
| Uranium | U | < 30 | < 30 | < 30 | < 30 | < 30 |
| Vanadium | V | 23. | 103. | 235. | 287. | 46. |
| Zinc | Zn | 3350 | 3250 | 383. | 257. | 140. |
| Results in | | ppm | ppm | ppm | ppm | ppm |
| **Precious Metals by Fire Assay** | | | | | | |
| Silver | Ag | 0.1 | 0.1 | 1.1 | 0.9 | 1.1 |
| Gold | Au | 0.011 | 0.008 | 0.027 | 0.028 | 0.053 |
| Palladium | Pd | 0.002 | 0.0008 | 0.001 | 0.0006 | 0.0008 |
| Platinum | Pt | 0.004 | 0.002 | 0.006 | 0.001 | 0.005 |
| Rhodium | Rh | < 0.001 | 0.001 | 0.001 | < 0.001 | < 0.001 |
| Results in | | oz/T | oz/T | oz/T | oz/T | oz/T |
| **Majors as Oxides** | | | | | | |
| Silicon | % SiO2 | 11.8 | 45.8 | 59.5 | 61.9 | 45.2 |
| Aluminum | %Al2O3 | 1.38 | 5.42 | 5.43 | 5.13 | 3.12 |
| Iron | %Fe2O3 | 43.2 | 27.8 | 18.3 | 18.6 | 21.4 |
| Calcium | % CaO | 0.46 | 2.23 | 1.01 | 1.31 | 0.61 |
| Magnesium | % MgO | 0.57 | 1.75 | 3.12 | 2.68 | 0.89 |
| Sodium | % Na2O | 0.18 | 0.74 | 0.58 | 0.72 | 0.34 |
| Potassium | % K2O | 0.15 | 0.83 | 0.83 | 0.94 | 0.55 |
| Barium | % BaO | 0.014 | 0.092 | 0.091 | 0.092 | 0.055 |
| Manganese | % MnO | 0.026 | 0.065 | 0.088 | 0.096 | 0.049 |
| Phosphorus | % P2O5 | < 0.05 | 0.19 | 0.11 | 0.05 | < 0.05 |
| Strontium | % SrO | 0.004 | 0.015 | 0.01 | 0.012 | 0.006 |
| Titanium | % TiO2 | 0.38 | 0.75 | 1.13 | 1.17 | 0.68 |
| Zirconium | % ZrO2 | 0.002 | 0.003 | 0.010 | 0.01 | 0.014 |
| Loss on Ignition | | 23.51 | 7.38 | 7.97 | 6.36 | 14.69 |
| **Total Oxides** | % | 81.7 | 93.0 | 98.3 | 99.0 | 86.6 |
| **Total Carbon** | %C | 0.08 | 0.45 | 0.73 | 0.34 | 0.37 |
| **Total Sulfur** | %S | 38.0 | 11.7 | 3.05 | 1.20 | 21.6 |

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To: Pacific GeoRock Exploration Ltd. W/O: 9313 Page 4

| Sample type | | Tailings | Tailings | Tailings | Tailings | Tailings |
|---|---|---|---|---|---|---|
| Identification | | CP-6 | CP-7 | CP-8 | CP-9A | CP-9B |
| Lab Reference # | | 9313-011 | 9313-012 | 9313-013 | 9313-014 | 9313-015 |
| **Analyzed by Plasma Emission Spectroscopy (ICAP)** | | | | | | |
| Method used | | Total | Total | Total | Total | Total |
| **Trace Elements** | | | | | | |
| Arsenic | As | < 30 | < 30 | < 30 | < 30 | < 30 |
| Boron | B | < 1. | < 1. | < 1. | < 1. | < 1. |
| Beryllium | Be | < 0.1 | < 0.1 | < 0.1 | < 0.1 | < 0.1 |
| Bismuth | Bi | < 20 | < 20 | < 20 | < 20 | < 20 |
| Cadmium | Cd | 2.2 | < 0.3 | 8.7 | 0.5 | < 0.3 |
| Cobalt | Co | 181 | 22 | 304 | 76 | 214 |
| Chromium | Cr | 207. | 314. | 152. | 286. | 402. |
| Copper | Cu | 20200 | 2860 | 24000 | 4610 | 12800 |
| Mercury | Hg | < 10 | < 10 | < 10 | < 10 | < 10 |
| Molybdenum | Mo | 13 | < 3. | < 3. | 4. | < 3. |
| Nickel | Ni | 13. | 10. | 45. | 19. | 42. |
| Lead | Pb | 48. | 7. | 23. | < 5. | < 5. |
| Antimony | Sb | < 10. | < 10. | < 10. | < 10. | < 10. |
| Selenium | Se | 80. | 30. | 80. | 40. | 40. |
| Thorium | Th | < 5. | < 5. | < 5. | < 5. | < 5. |
| Uranium | U | < 30 | < 30 | < 30 | < 30 | < 30 |
| Vanadium | V | 92. | 848. | 137. | 496. | 749. |
| Zinc | Zn | 840 | 210 | 3440 | 154 | 256 |
| Results in | | ppm | ppm | ppm | ppm | ppm |
| **Precious Metals by Fire Assay** | | | | | | |
| Silver | Ag | 0.2 | 0.1 | 0.2 | 0.1 | 0.1 |
| Gold | Au | 0.012 | 0.002 | 0.045 | 0.003 | 0.002 |
| Palladium | Pd | 0.0007 | 0.0006 | 0.0005 | 0.0009 | 0.0008 |
| Platinum | Pt | 0.001 | 0.002 | 0.001 | 0.002 | 0.002 |
| Rhodium | Rh | 0.001 | 0.001 | < 0.001 | < 0.001 | < 0.001 |
| Results in | | oz/T | oz/T | oz/T | oz/T | oz/T |
| **Majors as Oxides** | | | | | | |
| Silicon | % SiO2 | 47.0 | 35.5 | 20.9 | 41.2 | 35.0 |
| Aluminum | %Al2O3 | 4.93 | 9.28 | 2.91 | 8.51 | 5.20 |
| Iron | %Fe2O3 | 22.2 | 38.8 | 41.5 | 32.9 | 34.6 |
| Calcium | % CaO | 1.00 | 1.10 | 0.96 | 0.89 | 1.07 |
| Magnesium | % MgO | 2.18 | 4.89 | 1.50 | 4.35 | 6.74 |
| Sodium | % Na2O | 0.61 | 0.59 | 0.20 | 0.48 | 0.89 |
| Potassium | % K2O | 0.78 | 0.92 | 0.26 | 0.42 | 1.22 |
| Barium | % BaO | 0.064 | 0.046 | 0.029 | 0.035 | 0.054 |
| Manganese | % MnO | 0.065 | 0.15 | 0.049 | 0.13 | 0.20 |
| Phosphorus | % P2O5 | < 0.05 | 0.34 | 0.05 | 0.1 | 0.40 |
| Strontium | % SrO | 0.010 | 0.01 | 0.005 | 0.010 | 0.018 |
| Titanium | % TiO2 | 0.83 | 1.40 | 0.52 | 1.20 | 1.58 |
| Zirconium | % ZrO2 | 0.008 | < 0.001 | 0.002 | 0.005 | 0.026 |
| Loss on Ignition | | 13.37 | 5.27 | 18.01 | 8.85 | 8.78 |
| Total Oxides | % | 93.1 | 98.0 | 86.9 | 99.0 | 97.2 |
| Total Carbon | %C | 0.36 | 0.07 | 0.28 | 0.08 | 0.02 |
| Total Sulfur | %S | 18.4 | 1.91 | 29.1 | 4.28 | 8.88 |

# APPENDIX C

## Assays of tailings samples, 1990

# TAILINGS PILE COPPER CONCENTRATION - ANYOX

| Sample # | Depth of sample | % copper | ft. x % |
|---|---|---|---|
| 25 ✓ | 0.5 | 0.09 | 0.045 |
| 2A 48 ✓ | 0.5 | 0.19 | 0.095 |
| 3 ✓ | 1 | 0.09 | 0.09 |
| 34 ✓ | 1 | 0.1 | 0.1 |
| 19 ✓ | 1 | 0.1 | 0.1 |
| 21 ✓ | 1 | 0.11 | 0.11 |
| 27 ✓ | 1 | 0.11 | 0.11 |
| 26 ✓ | 1 | 0.12 | 0.12 |
| 4 ✓ | 1 | 0.14 | 0.14 |
| 20 ✓ | 1 | 0.14 | 0.14 |
| 11 ✓ | 1 | 0.18 | 0.18 |
| 8 ✓ | 1 | 0.19 | 0.19 |
| 12 ✓ | 1.5 | 0.19 | 0.285 |
| 29 ✓ | 2 | 0.08 | 0.16 |
| 17 ✓ | 2 | 0.1 | 0.2 |
| 18 ✓ | 2 | 0.1 | 0.2 |
| 24 ✓ | 2 | 0.12 | 0.24 |
| 33 ✓ | 2 | 0.12 | 0.24 |
| 16 ✓ | 2 | 0.13 | 0.26 |
| 15 ✓ | 2 | 0.18 | 0.36 |
| 31 ✓ | 2 | 0.25 | 0.5 |
| 23 ✓ | 2 | 0.31 | 0.62 |
| 30 ✓ | 2 | 0.35 | 0.7 |
| 10 ✓ | 2 | 0.42 | 0.84 |
| 28 ✓ | 2.5 | 0.09 | 0.225 |
| 32 ✓ | 2.5 | 0.18 | 0.45 |
| 9 ✓ | 3 | 0.34 | 1.02 |
| 42 ✓ | 3 | 0.68 | 2.04 |
| 41 ✓ | 3 | 0.99 | 2.97 |
| 38 ✓ | 3 | 1.24 | 3.72 |
| 39 ✓ | 3 | 1.64 | 4.92 |
| 52 ✓ | 3 | 1.75 | 5.25 |
| 35 ✓ | 3 | 1.98 | 5.94 |
| 43 ✓ | 4 | 0.22 | 0.88 |
| 54 ✓ | 4 | 0.45 | 1.8 |
| 13 ✓ | 4 | 0.62 | 2.48 |
| 40 ✓ | 4 | 1.18 | 4.72 |
| 22 ✓ | 4 | 1.66 | 6.64 |
| 3A 49 ✓ | 4 | 1.74 | 6.96 |
| 37 ✓ | 4 | 1.85 | 7.4 |
| 53 ✓ | 4 | 1.91 | 7.64 |
| 50 ✓ | 5 | 0.19 | 0.95 |
| 51 ✓ | 5 | 0.25 | 1.25 |
| 7 ✓ | 5 | 0.3 | 1.5 |
| 7A 46 ✓ | 5 | 0.33 | 1.65 |
| 6A 45 ✓ | 5 | 0.36 | 1.8 |
| 5 ✓ | 5 | 0.47 | 2.35 |
| 6 ✓ | 5 | 0.48 | 2.4 |
| 44 ✓ | 5 | 0.67 | 3.35 |
| 14A 47 ✓ | 5 | 0.77 | 3.85 |

| | | |
|---|---|---|
| sample depth | < 2.5 | |
| % x depth | 39.5 | |
| total ft. | 6.7 | |
| avg. % Cu | 0.17 | |

| | | |
|---|---|---|
| 3 | 0.34 | 1.02 |
| 3 | 0.68 | 2.04 |
| 3 | 0.99 | 2.97 |
| 3 | 1.24 | 3.72 |
| 3 | 1.64 | 4.92 |
| 3 | 1.75 | 5.25 |
| 3 | 1.98 | 5.94 |
| 4 | 0.22 | 0.88 |
| 4 | 0.45 | 1.8 |
| 4 | 0.62 | 2.48 |
| 4 | 1.18 | 4.72 |
| 4 | 1.66 | 6.64 |
| 4 | 1.74 | 6.96 |
| 4 | 1.85 | 7.4 |
| 4 | 1.91 | 7.64 |
| 5 | 0.19 | 0.95 |
| 5 | 0.25 | 1.25 |
| 5 | 0.3 | 1.5 |
| 5 | 0.33 | 1.65 |
| 6 | 0.36 | 2.16 |
| 6 | 0.47 | 2.82 |
| 6 | 0.48 | 2.88 |
| 5 | 0.67 | 3.35 |
| 5 | 0.77 | 3.85 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 14 | 5 | 0.81 | 4.05 | 5 | 0.81 | 4.05 |
| 1 | 5 | 1.26 | 6.3 | 5 | 1.26 | 6.3 |
| 36 | 5 | 1.36 | 6.8 | 5 | 1.36 | 6.8 |
| 55 | 5 | 1.94 | 9.7 | 5 | 1.94 | 9.7 |
| 2 | 5 | 2.21 | 11.05 | 5 | 2.21 | 11.05 |
| | 162.5 | 33.83 | 128.08 | 126 | | 122.69 |
| | | | 0.788184 | | | 0.973730 |

avg. % Cu overall 0.79

avg. % Cu samples > 2.5 ft. 0.97

avg. % Cu samples <2.5 ft. 0.17

TAILINGS PILE IRON CONCENTR

| depth of sample | %iron | % x ft. |
|---|---|---|
| 0.5 | 30.00 | 15.00 |
| 0.5 | 30.40 | 15.20 |
| 1 | 26.20 | 26.20 |
| 1 | 25.70 | 25.70 |
| 1 | 30.40 | 30.40 |
| 1 | 30.80 | 30.80 |
| 1 | 25.90 | 25.90 |
| 1 | 28.20 | 28.20 |
| 1 | 25.60 | 25.60 |
| 1 | 28.10 | 28.10 |
| 1 | 2.30 | 2.30 |
| 1 | 22.00 | 22.00 |
| 1.5 | 21.50 | 32.25 |
| 2 | 23.80 | 47.60 |
| 2 | 26.50 | 53.00 |
| 2 | 28.10 | 56.20 |
| 2 | 25.80 | 51.60 |
| 2 | 30.70 | 61.40 |
| 2 | 26.80 | 53.60 |
| 2 | 25.90 | 51.80 |
| 2 | 31.10 | 62.20 |
| 2 | 28.70 | 57.40 |
| 2 | 33.00 | 66.00 |
| 2 | 18.30 | 36.60 |
| 2.5 | 28.40 | 71.00 |
| 2.5 | 28.00 | 70.00 |
| 3 | 20.70 | 62.10 |
| 3 | 18.00 | 54.00 |
| 3 | 18.70 | 56.10 |
| 3 | 36.80 | 110.40 |
| 3 | 39.60 | 118.80 |
| 3 | 13.50 | 40.50 |
| 3 | 39.40 | 118.20 |
| 4 | 17.70 | 70.80 |
| 4 | 6.60 | 26.40 |
| 4 | 22.30 | 89.20 |
| 4 | 27.60 | 110.40 |
| 4 | 40.50 | 162.00 |
| 4 | 42.50 | 170.00 |
| 4 | 44.30 | 177.20 |
| 4 | 29.50 | 118.00 |
| 5 | 3.18 | 15.90 |
| 5 | 11.40 | 57.00 |
| 5 | 24.50 | 122.50 |
| 5 | 13.30 | 66.50 |
| 5 | 16.20 | 81.00 |
| 5 | 22.30 | 111.50 |
| 5 | 21.10 | 105.50 |
| 5 | 28.10 | 140.50 |
| 5 | 19.60 | 98.00 |

| | | |
|---|---|---|
| 5 | 24.00 | 120.00 |
| 5 | 30.60 | 153.00 |
| 5 | 34.50 | 172.50 |
| 5 | 19.90 | 99.50 |
| 5 | 34.40 | 172.00 |
| 162.5 | | 4045.55 |
| | avg.% Fe | 24.90 |

VGC VANGEOCHEM LAB LIMITED

MAIN OFFICE
1630 PANDORA STREET
VANCOUVER, B.C.
V5L 1L6
TEL (604) 251-5656
FAX (604) 254-5717

BRANCH OFFICES
BATHURST, N.B.
RENO, NEVADA, U.S.A.

# ASSAY ANALYTICAL REPORT

**CLIENT: REMIDA VENTURES INC.**
ADDRESS: 530 - 1111 Melville St.
: Vancouver BC
: V6E 2X5

DATE: DEC 03 1990

**REPORT#: 900755 AB**
JOB#: 900755

PROJECT#: NONE GIVEN
SAMPLES ARRIVED: NOV 28 1990
REPORT COMPLETED: DEC 03 1990
ANALYSED FOR: Cu Zn Fe

INVOICE#: 900755 NA
TOTAL SAMPLES: 58
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 58 ROCK PULPS

SAMPLES FROM: MR. BARRY WHELAN
COPY SENT TO: REMIDA VENTURES INC.

**PREPARED FOR: MR. BARRY WHELAN**

ANALYSED BY: Raymond Chan

SIGNED: _____
Registered Provincial Assayer

GENERAL REMARK: None

VGC VANGEOCHEM LAB LIMITED

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FAX (604) 254-5717

BRANCH OFFICES
BATHURST, N.B.
RENO, NEVADA, U.S.A.

REPORT NUMBER: 900755 AB JOB NUMBER: 900755 REMIDA VENTURES INC. 

| SAMPLE # | Cu % | Zn % | Fe % |
|---|---|---|---|
| 1 | 1.26 | .09 | 30.60 |
| 2 | 2.21 | .13 | 34.40 |
| 3 | .09 | .01 | 26.20 |
| 4 | .14 | .01 | 25.60 |
| 5 | .47 | .02 | 22.30 |
| 6 | .48 | .03 | 21.10 |
| 6A | .36 | .12 | 16.20 |
| 7 | .30 | .02 | 24.50 |
| 7A | .33 | .02 | 13.30 |
| 8 | .19 | .01 | 22.00 |
| 9 | .34 | .04 | 20.70 |
| 10 | .42 | .10 | 18.30 |
| 11 | .18 | .01 | 22.30 |
| 12 | .19 | .01 | 21.50 |
| 13 | .62 | .05 | 22.30 |
| 14 | .81 | .02 | 24.00 |
| 14A | .77 | .11 | 19.60 |
| 15 | .18 | .01 | 25.90 |
| 16 | .13 | .02 | 26.80 |
| 17 | .10 | .02 | 26.50 |
| DETECTION LIMIT | .01 | .01 | .01 |

1 troy oz/short ton = 34.28 ppm  1 ppm = 0.0001%  ppm = parts per million  < = less than

signed: _____

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| SAMPLE # | Cu % | Zn % | Fe % |
|---|---|---|---|
| 18 | .10 | .01 | 28.10 |
| 19 | .10 | .02 | 30.40 |
| 20 | .14 | .01 | 28.10 |
| 21 | .11 | .02 | 30.80 |
| 21A | .19 | .02 | 30.40 |
| 22 | 1.66 | .04 | 40.50 |
| 23 | .31 | .02 | 28.70 |
| 24 | .12 | .02 | 25.80 |
| 25 | .09 | .02 | 30.00 |
| 26 | .12 | .01 | 28.20 |
| 27 | .11 | .01 | 25.90 |
| 28 | .09 | .02 | 28.40 |
| 29 | .08 | .02 | 23.80 |
| 30 | .35 | .01 | 33.00 |
| 31 | .25 | .01 | 31.10 |
| 32 | .18 | .01 | 28.00 |
| 33 | .12 | .01 | 30.70 |
| 34 | .10 | .01 | 25.70 |
| 35 | 1.98 | .27 | 39.40 |
| 36 | 1.36 | .10 | 34.50 |
| DETECTION LIMIT | .01 | .01 | .01 |

1 Troy oz/short ton = 34.28 ppm  1 ppm = 0.0001%  ppm = parts per million  < = less than

signed: _____

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| SAMPLE # | Cu % | Zn % | Fe % |
|---|---|---|---|
| 37 | 1.85 | .17 | 44.30 |
| 37A | 1.74 | .18 | 42.50 |
| 38 | 1.24 | .14 | 36.80 |
| 39 | 1.64 | .07 | 39.60 |
| 40 | 1.18 | .03 | 27.60 |
| 41 | .99 | .03 | 18.70 |
| 42 | .68 | .08 | 18.00 |
| 43 | .22 | .03 | 17.70 |
| 44 | .67 | .08 | 28.10 |
| 50 | .19 | .01 | 3.18 |
| 51 | .25 | .01 | 11.40 |
| 52 | 1.75 | .17 | 13.50 |
| 53 | 1.91 | .33 | 29.50 |
| 54 | .45 | .03 | 6.60 |
| 55 | 1.94 | .27 | 19.90 |
| PIT WALL #2 | .12 | .01 | 37.30 |
| NO NAME A | .10 | .28 | 22.00 |
| NO NAME B | .12 | .31 | 22.00 |
| DETECTION LIMIT | .01 | .01 | .01 |

1 Troy oz/short ton = 34.28 ppm  1 ppm = 0.0001%  ppm = parts per million  < = less than

signed: _____

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BRANCH OFFICES
BATHURST, N.B.
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# ASSAY ANALYTICAL REPORT

CLIENT: REMIDA VENTURES INC.
ADDRESS: 530 - 1111 Melville St.
: Vancouver BC
: V6E 2X5

DATE: NOV 30 1990
REPORT#: 900755 AA
JOB#: 900755

PROJECT#: NON GIVEN
SAMPLES ARRIVED: NOV 28 1990
REPORT COMPLETED: NOV 30 1990
ANALYSED FOR: Ag Au

INVOICE#: 900755 NA
TOTAL SAMPLES: 58
REJECTS/PULPS: 90 DAYS/1 YR
SAMPLE TYPE: 58 ROCK PULPS

SAMPLES FROM: MR. BARRY WHELAN
COPY SENT TO: REMIDA VENTURES INC.

PREPARED FOR: MR. BARRY WHELAN

ANALYSED BY: Raymond Chan

SIGNED: _____
Registered Provincial Assayer

GENERAL REMARK: None

VGC VANGEOCHEM LAB LIMITED

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BRANCH OFFICES
BATHURST, N.B.
RENO, NEVADA, U.S.A.



| SAMPLE # | Ag oz/st | Au oz/st |
|---|---|---|
| 1 | .20 | .012 |
| 2 | .16 | .014 |
| 3 | <.01 | <.005 |
| 4 | .04 | <.005 |
| 5 | <.01 | <.005 |
| 6 | .02 | <.005 |
| 6A | <.01 | <.005 |
| 7 | .04 | <.005 |
| 7A | <.01 | <.005 |
| 8 | .02 | <.005 |
| 9 | .01 | <.005 |
| 10 | .05 | <.005 |
| 11 | .05 | <.005 |
| 12 | .05 | <.005 |
| 13 | .01 | <.005 |
| 14 | <.01 | <.005 |
| 14A | <.01 | <.005 |
| 15 | .03 | <.005 |
| 16 | .07 | <.005 |
| 17 | .08 | <.005 |
| DETECTION LIMIT | .01 | .005 |

1 troy oz/short ton = 34.28 ppm  1 ppm = 0.0001%  ppm = parts per million  < = less than

signed: _____

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RENO, NEVADA, U.S.A.



| SAMPLE # | Ag oz/st | Au oz/st |
|---|---|---|
| 18 | .03 | <.005 |
| 19 | .10 | <.005 |
| 20 | .06 | <.005 |
| 21 | .06 | <.005 |
| 21A | .08 | <.005 |
| 22 | .02 | <.005 |
| 23 | .04 | <.005 |
| 24 | .06 | <.005 |
| 25 | .04 | <.005 |
| 26 | .05 | <.005 |
| 27 | .06 | <.005 |
| 28 | .09 | <.005 |
| 29 | .02 | <.005 |
| 30 | .03 | <.005 |
| 31 | .07 | <.005 |
| 32 | .02 | <.005 |
| 33 | .03 | <.005 |
| 34 | .02 | <.005 |
| 35 | .36 | <.005 |
| 36 | .09 | <.005 |
| DETECTION LIMIT | .01 | .005 |

1 Troy oz/short ton = 34.28 ppm  1 ppm = 0.0001%  ppm = parts per million  < = less than

signed: _____