

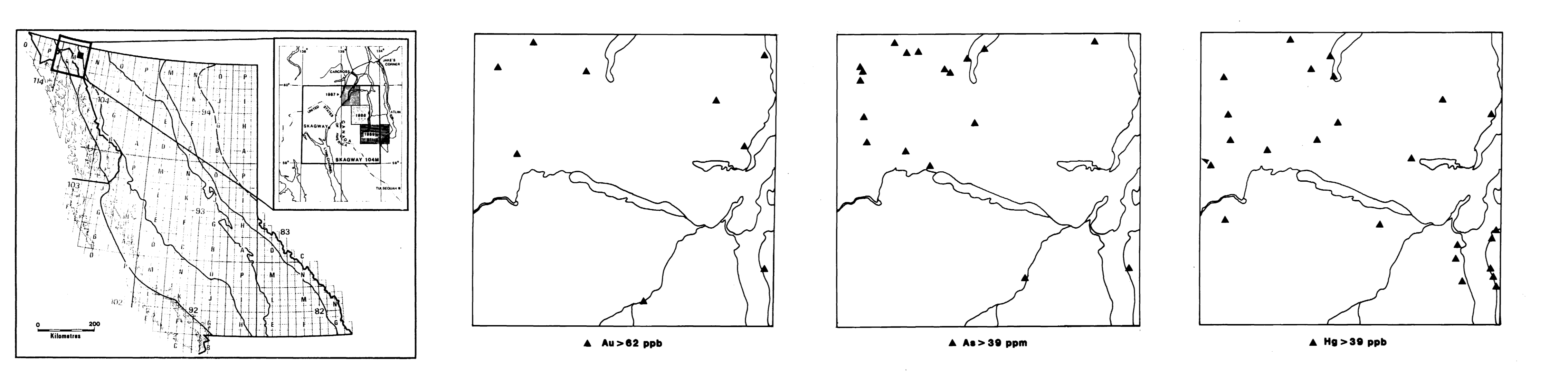
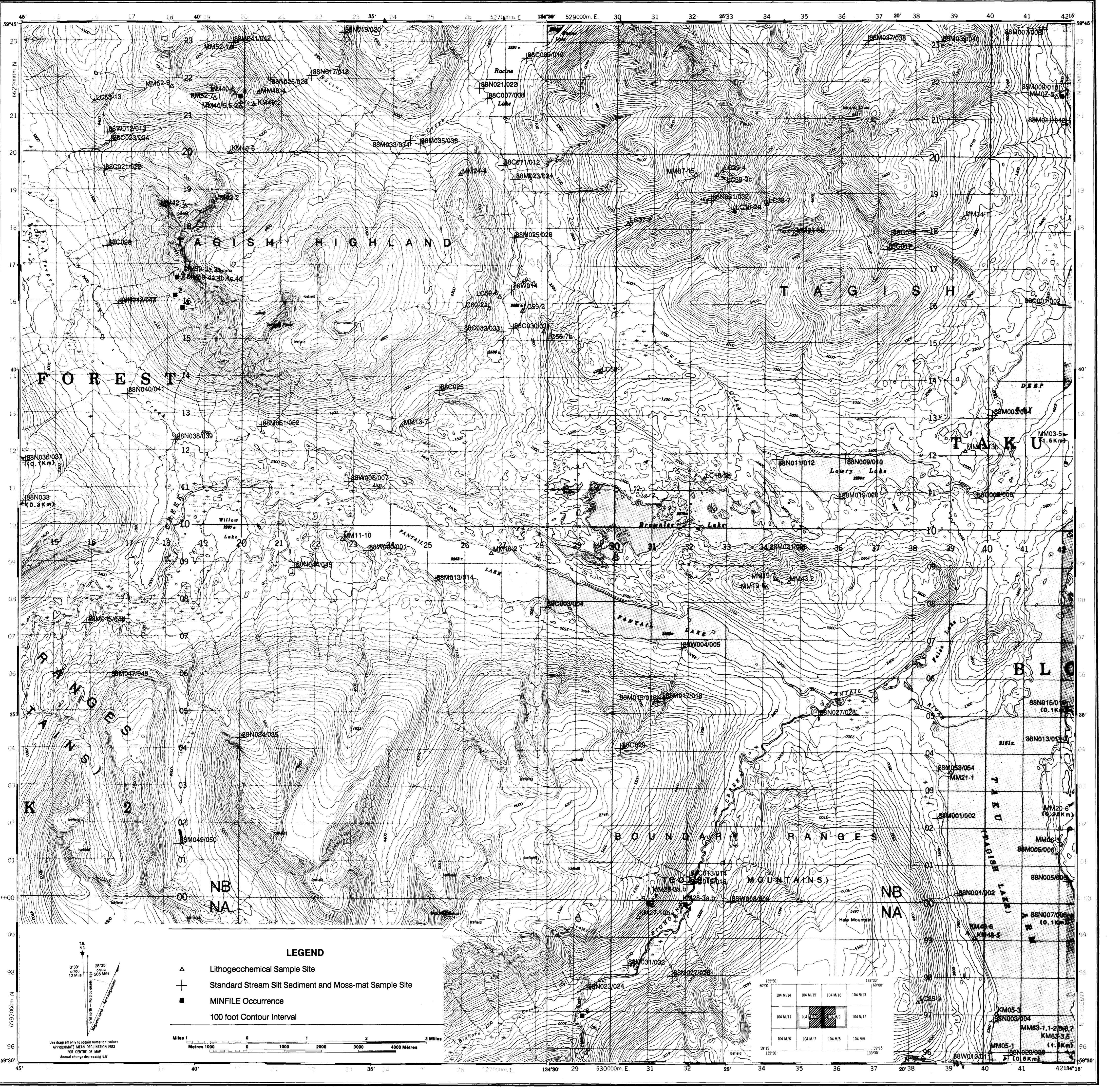
Province of British Columbia Ministry of Mines and Petroleum Resources
MINERAL RESOURCES DIVISION
GEOLOGICAL SURVEY BRANCH
OPEN FILE 1989-13 (SHEET 2 OF 2)
STREAM SEDIMENT AND LITHOGEOCHEMICAL SURVEY RESULTS FOR THE FANTAIL LAKE (WEST) AND WARM CREEK (EAST) MAP AREA
NTS 104M/9/W & 10E
R.L. ARKSEY AND M.G. MIHALYNUK
 SCALE 1:50 000

LITHOGEOCHEMICAL RESULTS

| SAMPLE No. | NTS ZONE # | EASTING | NORTHING | Au ppm | Ag ppm | Cu ppm | Pb ppm | Zn ppm | Hg ppm | As ppm | Sb ppm |
|------------|------------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|
| MM3-5 | 104M09 | 543750 | 661550 | 25 | <0.4 | 2 | 30 | 9 | 15 | 2 | |
| MM3-6 | 104M09 | 543800 | 661550 | 41 | 0.8 | 0 | 30 | 10 | 18 | 110 | 2 |
| MM3-7 | 104M09 | 543850 | 661550 | 53 | 1.9 | 0 | 15% | 30 | 0.7% | 270 | 2 |
| MM3-8 | 104M09 | 543900 | 661550 | 76 | 1 | 9 | 6 | 37 | 10 | 6.4% | 6 |
| MM1-10 | 104M10 | 527500 | 660950 | 2 | 1.4 | 4 | 10 | 54 | <10 | 54 | 2 |
| MM1-11 | 104M10 | 527550 | 660950 | 29 | <0.4 | 152 | 10 | 57 | 20 | 5.6 | 5 |
| MM1-12 | 104M10 | 527600 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-13 | 104M10 | 527650 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-14 | 104M10 | 527700 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-15 | 104M10 | 527750 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-16 | 104M10 | 527800 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-17 | 104M10 | 527850 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-18 | 104M10 | 527900 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-19 | 104M10 | 527950 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-20 | 104M10 | 528000 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-21 | 104M10 | 528050 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-22 | 104M10 | 528100 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-23 | 104M10 | 528150 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-24 | 104M10 | 528200 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-25 | 104M10 | 528250 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-26 | 104M10 | 528300 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-27 | 104M10 | 528350 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-28 | 104M10 | 528400 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-29 | 104M10 | 528450 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-30 | 104M10 | 528500 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-31 | 104M10 | 528550 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-32 | 104M10 | 528600 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-33 | 104M10 | 528650 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-34 | 104M10 | 528700 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-35 | 104M10 | 528750 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-36 | 104M10 | 528800 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-37 | 104M10 | 528850 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-38 | 104M10 | 528900 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-39 | 104M10 | 528950 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-40 | 104M10 | 529000 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-41 | 104M10 | 529050 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-42 | 104M10 | 529100 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-43 | 104M10 | 529150 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-44 | 104M10 | 529200 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-45 | 104M10 | 529250 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-46 | 104M10 | 529300 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-47 | 104M10 | 529350 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-48 | 104M10 | 529400 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-49 | 104M10 | 529450 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-50 | 104M10 | 529500 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-51 | 104M10 | 529550 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-52 | 104M10 | 529600 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-53 | 104M10 | 529650 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-54 | 104M10 | 529700 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-55 | 104M10 | 529750 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-56 | 104M10 | 529800 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-57 | 104M10 | 529850 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-58 | 104M10 | 529900 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-59 | 104M10 | 529950 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-60 | 104M10 | 530000 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-61 | 104M10 | 530050 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-62 | 104M10 | 530100 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-63 | 104M10 | 530150 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-64 | 104M10 | 530200 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-65 | 104M10 | 530250 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-66 | 104M10 | 530300 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-67 | 104M10 | 530350 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-68 | 104M10 | 530400 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-69 | 104M10 | 530450 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-70 | 104M10 | 530500 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-71 | 104M10 | 530550 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-72 | 104M10 | 530600 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-73 | 104M10 | 530650 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-74 | 104M10 | 530700 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-75 | 104M10 | 530750 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-76 | 104M10 | 530800 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-77 | 104M10 | 530850 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-78 | 104M10 | 530900 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-79 | 104M10 | 530950 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |
| MM1-80 | 104M10 | 531000 | 660950 | 1 | 0.5 | 7 | 12 | 16 | 20 | 125 | 11 |

MINERAL OCCURRENCES

| No. | Name (MINFILE No.) | Commodity | Assay Sample | Width | Description and Reference |
|-----|-----------------------|-----------|--------------|-------|--|
| 1 | TP Main (104M/048) | Au | 22.7 g/t | grab | Stream zones within the pre-Permian metasediments display arsenic-cobaltite-antimony; mineralization developed near the felsic felsic porphyry stock (AR 1330). |
| | | Ag | <10 g/t | grab | |
| | | Co | 3.91% | grab | |
| 2 | TP Camp (104M/049) | Fe | N/A | | Ferrous and massive magnetite occur in a northwesterly trending skarn within the pre-Permian metasediments (AR 1330). |
| 3 | TP Central (104M/050) | Au | 10.8 g/t | grab | Ferrous-chalcopyrite-arsenopyrite mineralization is hosted in a magnetite and calcite skarn zone (AR 1330). |
| | | Ag | 14.7 g/t | grab | |
| | | Cu | NA | | |
| 4 | Spokane (104M/006) | Au | 23.3 g/t | grab | Pre-Permian metasediments host an east-trending 1.1 metre sulphide-bearing quartz vein (AR 1933-78). |
| | | Ag | 6.2 g/t | grab | |
| | | Zn | NA | | |
| | | Pb | NA | | |
| | | Cu | NA | | |
| 5 | Lawsan (104M/007) | Pb | NA | | A narrow quartz vein contains small amounts of pyrite, galena and native gold (AR 5910 and AR 10059). |
| | | Ag | NA | | |
| | | Cu | NA | | |
| 6 | Red Rupert (104M/024) | Ag | 34.3 g/t | 6 cm | A 30 to 60-centimetre quartz vein is hosted within the pre-Permian metasediments (AR 1933-30). |
| | | Ag | 12.7 g/t | 6 cm | |
| 7 | Lakefront (104M/005) | Sb | 6.4% | grab | A 1.0 metre conformable vein composed mostly of quartz and stibnite is hosted within the Jurassic-Laberge Group (GSC Map #37, pp. 116-117). |
| | | Pb | 69 g/t | grab | |
| 8 | Crine Vein (NA) | Au | 2.9 g/t | grab | Discovered during the 1988 regional mapping program. A 0.5-2.0 metre wide north-west-trending, brecciated and sheared sulfidated quartz-veined zone contains stibnite, pyrite and arsenopyrite up to 15% combined. A faulted western margin is in some places well defined. Total strike length may be 1 km or more. |
| | | Ag | 66 g/t | grab | |
| | | Pb | 11 g/t | grab | |



REGIONAL GEOCHEMICAL SURVEY RESULTS

| NTS | SAMPLE No. | EASTING | NORTHING | LITHOLOGY | Mo | Pb | Zn | Ag | Ni | Mn | Fe | U | Th | Cd | V | Cr | Co | Ni | As | Se | Te | Bi | Ge | Sa | Te | LOI | Sample Wt (g) | | | | | | | | | | | | | |
|--------|------------|---------|----------|-----------|------|----|----|----|----|------|----|----|-----|------|---|----|----|----|------|-------|----|----|------|----|------|-----|---------------|------|------|---|---|----|------|-----|-----|-----|-----|-----|-----|----|
| 104M09 | 88C 002a | 542050 | 661607 | ARGL | ARGL | 1 | 55 | 11 | 85 | 0.25 | 35 | 14 | 484 | 4.01 | 5 | 4 | 1 | 71 | 0.83 | 0.079 | 11 | 58 | 1.29 | 73 | 0.10 | 6 | 2.02 | 0.03 | 0.13 | 2 | 5 | 20 | 23.5 | 1.1 | 0.3 | 0.2 | 0.7 | 0.3 | 4.3 | 43 |
| 104M09 | 88C 002b | 542050 | 661607 | ARGL | ARGL | 1 | 55 | 11 | 85 | 0.25 | 35 | 14 | 484 | 4.01 | 5 | 4 | 1 | 71 | 0.83 | 0.079 | 11 | 58 | 1.29 | 73 | 0.10 | 6 | 2.02 | 0.03 | 0.13 | 2 | 5 | 20 | 23.5 | 1.1 | 0.3 | 0.2 | 0.7 | 0.3 | 4.3 | 43 |
| 104M09 | 88C 002c | 542050 | 661607 | ARGL | ARGL | 1 | 55 | 11 | 85 | 0.25 | 35 | 14 | 484 | 4.01 | 5 | 4 | 1 | 71 | 0.83 | 0.079 | 11 | 58 | 1.29 | 73 | 0.10 | 6 | 2.02 | 0.03 | 0.13 | 2 | 5 | 20 | 23.5 | 1.1 | 0.3 | | | | | |