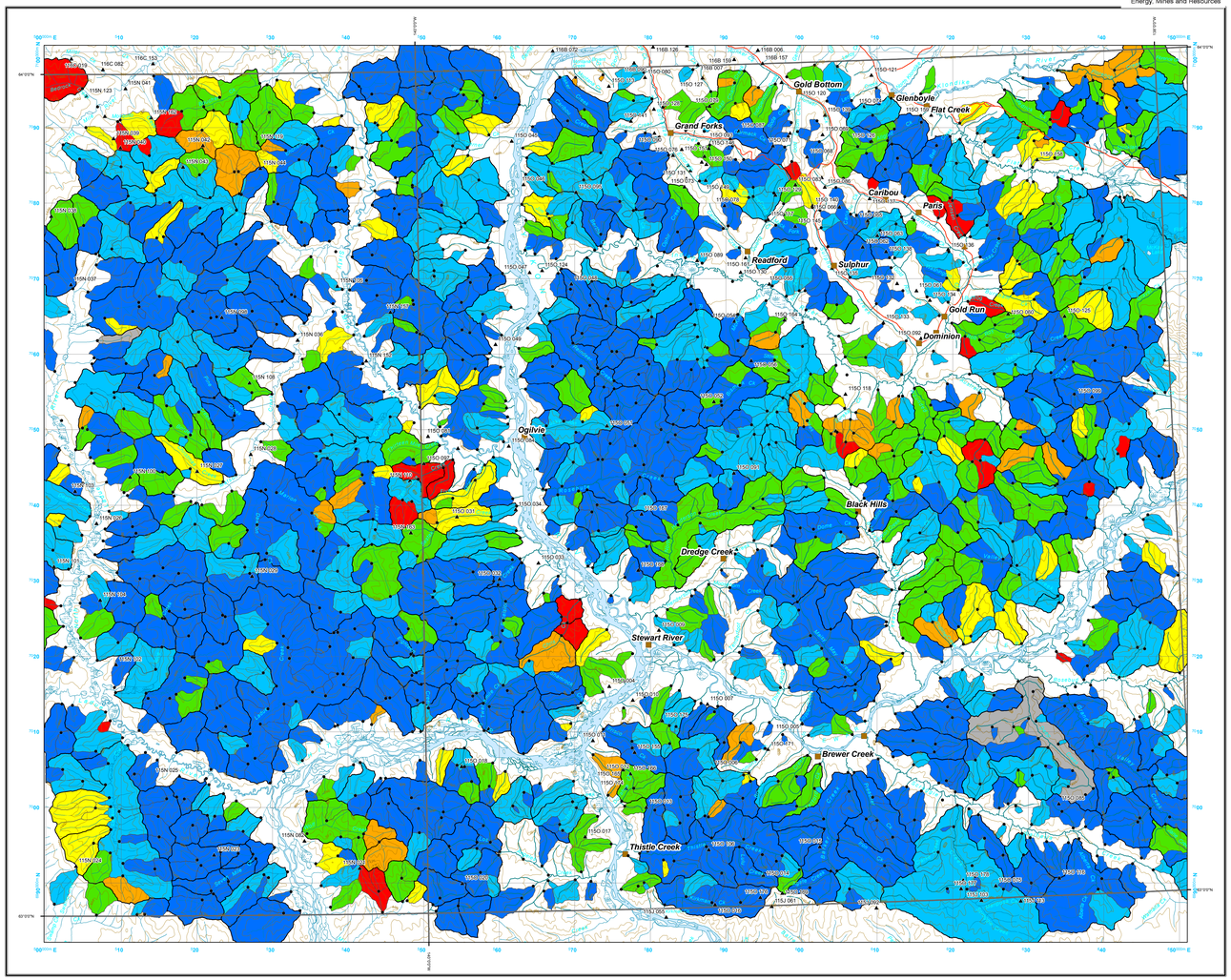


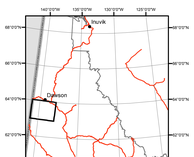


*1:250 000-scale topographic base data produced by CENTRE FOR TOPOGRAPHIC INFORMATION, NATURAL RESOURCES CANADA*

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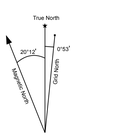
ONE THOUSAND METRE GRID
Universal Transverse Mercator Projection
North American Datum 1983
Zone 7

CONTOUR INTERVAL 100 FEET
Elevations in metres above Mean Sea Level

**Intrusion-related Au**
**Weighted sums model**
**(Geology Levelled)**
**Sheet 2 of 13**

SCALE 1:250 000

0 1 2 3 4 5
kilometres




Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 2016
FOR CENTRE OF MAP

| | | |
|---|---|---|
| 116C PART OF 116B | 116B DAWSON | 116A LARSEN CREEK |
| 115N THIS MAP | 115O THIS MAP | 115P MCQUESTEN |
| 115K PART OF 115J | 115J STEVENSON RIDGE | 115I CARMACKS |

## INTRODUCTION

New geochemical data from re-analysis of archived stream sediment samples have been assessed using weighted sums modeling and catchment basin analysis as described in the methodology report that accompanies this map (Mackie *et al*., 2015). Both commodity and pathfinder element abundances are evaluated to highlight areas that show geochemical responses consistent with a variety of base and precious-metal mineral deposit types. The results of modeling, completed using two approaches, are presented as a series of catchment maps and associated data files. This release is part of a regional assessment of stream sediment geochemistry that covers a large part of Yukon.

## SAMPLING AND ANALYSIS PROGRAMS

Stream sediment and water samples from the Stewart River Area (NTS 115O and part of 115N) were collected at a reconnaissance scale in 1986 as part of the Canada-Yukon Mineral Development Agreement (Friske *et al*., 2001). Field descriptions and initial geochemical data for 1392 sites were released in Geological Survey of Canada (GSC) Open File 1364 / Indian and Northern Affairs Canada, Exploration and Geological Services Division Open File 2001-13D. New geochemical data from the re-analysis of archive sample material were released in Yukon Geological Survey (YGS) Open File 2016-4 (Jackaman, 2016). The reader is referred to these reports for detailed descriptions of sampling techniques, analytical procedures, and quality control measures.

## MINERAL OCCURRENCES

A variety of types of base and precious-metal mineralization have been identified in the Stewart River Area as listed in Table 1 (Yukon MINFILE, 2015). The most significant deposits are classed as orogenic Au (Golden Saddle deposit and OV prospect), polymetallic Ag-Pb-Zn (Connaught and Lerner deposits), intrusion-related Au (Moosehorn deposit and Flume prospect), quartz-vein hosted Au (Lone Star and Violet deposits, and Eureka prospect) and Cu-Zn-Pb volcanogenic massive sulphide (Touleray prospect). The Casino Cu-Mo-Au porphyry deposit and Coffee orogenic Au deposit occur in the adjacent map area to the south supporting the prospectivity of the region for these deposit types.

## WEIGHTED SUMS MODELING

As described in the methodology report (Mackie *et al*., 2015), two approaches have been used to subdue the influence of background lithological variation and secondary absorption on the composition of stream sediments. One uses data levelled by the dominant geology mapped within each catchment, while the other uses residuals calculated from regression against selected principal components. Weighted sums models (WSM) have been generated using the processed data.

The importance rankings used in WSMs are summarized in Table 2. Each model is optimized for a target deposit type however other deposit types may be represented in a given model due to similarities in elemental abundances and associations. The elements and weightings used for the Orogenic Au model are based on the signature observed in streams draining the Golden Saddle and Arc occurrences.

Exploratory data analysis using both raw element data and principal component analysis indicate that lithological variation influences the distribution of many commodity and pathfinder elements. The principal component (PC1) accounts for ~24% of the total variation and shows high positive loadings for Ti, Al, Li and V. Spatially, positive PC1 relates to parts of the Dawson Range Batholith and thus is interpreted to reflect lithological control. Similarly, negative PC1 with high loadings for Cd, Hg, LOI and Ag matches the distribution of the Klondike schist and Snowcap Assemblage metasediments. The second component, which accounts for ~24% of the variation, shows high positive loadings for La, Ce, U, Bi, Pb and Th, and corresponds to areas mapped as Grass River Suite felsic orthogneiss. The third component, with high loadings in Zr, Y, Sr and Na, corresponds to areas mapped as felsic and intermediate volcanic and intrusive rocks and is thus also interpreted to represent lithological control. The fourth component has high positive loadings in Pb, Sb, As, Cu, Cr, Ag and Ni. Spatially, this grouping appears to relate to polymetallic Ag-Pb-Zn and some gold occurrences and is interpreted to represent a mineralization signal.

Regression analysis of selected metals against the relevant component(s) effectively filters lithological controls while preserving responses related to known occurrences. Levelling by mapped geology appears to be less effective at filtering lithological control for certain pathfinder elements. In order to reduce the impact this has on the WSM certain elements were given low importance rankings or, in some cases, were omitted for certain deposit types. Negative weightings were assigned to some elements in order to distinguish deposit types with similar element associations.

The effectiveness of historical sampling coverage has been assessed empirically using graphs of WSMs plotted against catchment surface area to determine the ideal maximum catchment size (16 km$^2$). Catchments that cover larger areas (shown on the map with bold outlines) are interpreted to have been under-sampled and thus require further sampling to properly evaluate the area for geochemical anomalism. Given the likelihood that a mineralization signal would be progressively diluted with increasing catchment size, marginally high WSM scores in large catchments may also be of interest.

**Table 2: Importance rankings for weighted sums models using data levelled by mapped geology.**

| Target Deposit Type[a] | Other Deposit Type[a] | Mn | Fe | Co | Ni | Cu | Mo | Zn | Pb | Ag | Au[1] | As | Ba | Cd | Sn | Sb | Te | Hg | Tl | Bi | W[1] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Porphyry Cu-Mo | Cu skarn; Porphyry Mo; VMS (Cu-rich) | | | | -1 | 4 | 2 | | | | 1 | 2 | | | | | | | | | |
| Polymetallic Ag-Pb-Zn | VMS; SEDEX; Pb-Zn skarn | | | | | | | 1 | 3 | 4 | | 2 | -1 | | | 1 | | | | | |
| Epithermal Au-Ag | Polymetallic Ag-Pb-Zn | | | | | 1 | | | | 4 | 4 | 1 | | | | | 1 | 2 | | | |
| Orogenic Au | Intrusion-related Au; Epithermal Au-Ag | | | | | | 1 | | | 3 | 4 | 1 | | | | 2 | | | | | |
| Intrusion-related Au | Orogenic Au; Epithermal Au-Ag | | | | | | | | | 1 | 3 | 4 | | | | 2 | | | | 3 | |
| W skarn | Intrusion-related Au | | | | | | | | 1 | | 1 | 1 | | | | | | | | 2 | 4 |

[a]Polymetallic Ag-Pb-Zn type includes vein and manto styles; SEDEX = sedimentary exhalative; VMS = volcanic-hosted/associated massive sulphide deposits
[1]For heavily censored elements, raw data are used following a $\log_{10}$ transformation.

**LEGEND**

- Town
- Mineral Occurrence
- Road
- Contour
- River
- NTS map sheet
- Water Body
- Wetland
- Sample Location
- Catchment > 16km²

**Weighted sums model (Geology Levelled)**

**Intrusion-related Au deposits**

- incomplete element suite
- 0-50th percentile
- 50-75th percentile
- 75-90th percentile
- 90-95th percentile
- 95-98th percentile
- 98-100th percentile

**Table 1: List of Mineral Occurrences for NTS map sheet 115N and 115O (Yukon MINFILE, 2015)**

| Number | Name | Type | Status | Commodities |
|---|---|---|---|---|
| 115N 119 | MT. HART | Unknown | Anomaly | Gold |
| 115N 123 | BECKROCK | Vein Au-Quartz | Showing | Copper, Gold, Silver |
| 115N 152 | SWITYMLE | Coal | Showing | Coal |
| 115N 163 | TRS | Skarn Au | Showing | Gold |
| 115O 014 | BLACK FOX | Vein Polymetallic Ag-Pb-Zn+Au | Showing | Gold, Lead, Silver |
| 115O 020 | APOLLO | Porphyry Cu-Mo-Au | Anomaly | Copper, Molybdenum |
| 115O 031 | CARDIFF | Plutonic Related Au | Prospect | Arsenic, Copper, Gold, Lead |
| 115O 035 | TENMILE | Vein Au-Quartz | Showing | Gold |
| 115O 046 | PICKERING | Vein Au-Quartz | Prospect | Gold |
| 115O 047 | INDIAN | Ultramafic-hosted asbestos | Showing | Asbestos |
| 115O 048 | BISHOP | Vein Au-Quartz | Unknown | Gold |
| 115O 049 | WOOD | Skarn Cu | Showing | Copper |
| | | | | Antimony, Gold, Silver, Lead, Zinc, Molybdenum, |
| 115O 051 | LUCKY JOE | Unknown | Drilled Prospect | Tellurium |
| 115O 052 | SISKWIK | Vein Au-Quartz | Anomaly | Gold, Palladium, Platinum |
| 115O 053 | HAYSTACK | Coal | Drilled Prospect | Fossil Carbon |
| 115O 054 | MOONNON | Paleoplacer | Drilled Prospect | Gold |
| 115O 055 | RAVEN | Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn | Showing | Copper, Silver, Gold |
| 115O 056 | FOTHERGILL | Paleoplacer | Anomaly | Gold |
| 115O 061 | PAYNE | Vein Au-Quartz | Prospect | Gold |
| 115O 063 | GOLD RUN | Vein Au-Quartz | Prospect | Gold, Silver |
| 115O 064 | PORTLAND | Vein Au-Quartz | Prospect | Gold, Silver, Zinc, Lead |
| 115O 065 | DOMINION | Vein Au-Quartz | Showing | Gold, Lead |
| 115O 066 | LLOYD | Vein Au-Quartz | Prospect | Copper, Lead, Gold |
| 115O 067 | HUNKER DOME | Vein Au-Quartz | Prospect | Gold, Silver |
| 115O 068 | MITCHELL | Vein Au-Quartz | Drilled Prospect | Copper, Lead, Zinc, Gold, Silver, Antimony |
| 115O 069 | FAWCETT | Vein Au-Quartz | Prospect | Gold, Silver |
| 115O 070 | BUM | Vein Cu+Ag Quartz | Prospect | Copper, Silver |
| 115O 071 | BOX CAR | Vein Polymetallic Ag-Pb-Zn+Au | Prospect | Copper, Zinc, Gold, Lead, Silver |
| 115O 072 | LONE STAR | Plutonic Related Au | Past Producer | Gold, Silver |
| 115O 073 | VIOLET | Vein Au-Quartz | Past Producer | Gold, Copper, Barite, Lead, Silver |
| 115O 074 | LEOTTA | Vein Polymetallic Ag-Pb-Zn+Au | Anomaly | Zinc |
| 115O 075 | SKOOKUM JIM | Orogenic Au | Drilled Prospect | Gold, Copper, Molybdenum, Bismuth, Antimony |
| 115O 076 | BILCHEY | Vein Au-Quartz | Drilled Prospect | Gold, Silver, Lead |
| 115O 077 | BUCKLAND | Vein Au-Quartz | Drilled Prospect | Gold, Silver |
| 115O 078 | JUN | Unknown | Anomaly | Copper, Molybdenum, Silver, Lead |
| 115O 079 | FORK | Vein Polymetallic Ag-Pb-Zn+Au | Anomaly | Arsenic, Gold |
| 115O 081 | SESTAK | Vein Barite+Fluorite | Showing | Fluorite |
| 115O 083 | GREENBACK | Unknown | Anomaly | Copper, Zinc, Gold, Lead |
| 115O 084 | CRUMBSHAW | Coal | Unknown | Coal |
| 115O 085 | MCMICHAEL | Porphyry Cu-Mo-Au | Showing | Copper |
| 115O 086 | CHAPMAN | Plutonic Related Au | Drilled Prospect | Gold, Lead, Arsenic |
| 115O 088 | TINSLEY | Plutonic Related Au | Anomaly | Gold, Silver |
| 115O 089 | TORRANCE | Unknown | Unknown | Gold |
| 115O 090 | BALD EAGLE | Ultramafic Mafic Gabbroid Cu-Ni-PGE | Drilled Prospect | Gold, Platinum |
| 115O 092 | GRAWILLE | Unknown | Unknown | Gold, Silver |
| 115O 093 | PLUMBERY | Vein Au-Quartz | Anomaly | Gold |
| 115O 095 | GLEESON | Skarn W | Anomaly | Tungsten |
| 115N 021 | ARIES | Porphyry Cu-Mo-Au | Anomaly | Arsenic, Silver, Copper, Gold |
| 115N 023 | ORION | Unknown | Anomaly | Bismuth, Gold |
| | | | | Gold, Arsenic, Copper, Zinc, Mercury, |
| 115N 024 | MOOSEHORN | Vein Au-Quartz | Past Producer | Molybdenum, Silver, Antimony, Lead |
| 115N 026 | JACUE | Porphyry Cu-Mo-Au | Showing | Copper, Molybdenum |
| 115N 027 | SANTA | Vein Polymetallic Ag-Pb-Zn+Au | Showing | Lead, Tin, Silver |
| 115N 028 | EVENN | Coal | Anomaly | Coal |
| 115N 029 | FAX | Porphyry Cu-Mo-Au | Anomaly | Copper, Molybdenum |
| 115N 038 | CRAG | Uranium | Anomaly | Uranium |
| 115N 039 | LERNER | Vein Polymetallic Ag-Pb-Zn+Au | Past Producer | Gold, Lead, Silver |
| 115N 041 | PKR | Vein Polymetallic Ag-Pb-Zn+Au | Drilled Prospect | Gold, Mercury, Silver, Zinc, Lead |

**Table 1: List of Mineral Occurrences for NTS map sheet 115N and 115O (Yukon MINFILE, 2015)**

| Number | Name | Type | Status | Commodities |
|---|---|---|---|---|
| 115N 042 | BUTLER | Porphyry Cu-Mo-Au | Drilled Prospect | Gold, Arsenic |
| 115N 043 | ROSE | Vein Au-Quartz | Anomaly | Copper, Silver |
| 115N 092 | PROSPECT | Unknown | Anomaly | Copper |
| 115N 098 | JOVE | Uranium | Drilled Prospect | Uranium |
| 115N 100 | BOREO | Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn | Anomaly | Copper, Zinc, Lead |
| 115N 108 | SON | Uranium | Anomaly | Uranium |
| 115N 110 | FLUME | Porphyry-related Au | Prospect | Arsenic, Gold |
| 115O 007 | THIRTEEN | Unknown | Anomaly | Arsenic, Gold |
| 115O 108 | HAKONSON | Vein Au-Quartz | Unknown | Gold, Silver, Lead |
| 115O 113 | BRONSON | Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn | Anomaly | Copper, Lead, Manganese |
| | | | | Chromium, Gold, Copper, Nickel, Palladium, |
| 115O 116 | PYROXENE | Ultramafic Mafic Podiform Chromite | Anomaly | Platinum |
| 115O 117 | BOMBINE | Unknown | Unknown | Gold |
| 115O 118 | ARMENIAN | Vein Au-Quartz | Prospect | Gold, Silver |
| 115O 123 | MOUNTAIN BLUFF | Ultramafic-hosted asbestos | Showing | Asbestos |
| 115O 124 | HOBBS | Limestone | Prospect | Calcium, Silica |
| 115O 127 | LINDON | Vein Au-Quartz | Showing | Arsenic, Gold, Silver |
| 115O 128 | CHU FING | Vein Au-Quartz | Showing | Copper, Zinc, Lead |
| 115O 129 | SCHRAM | Unknown | Drilled Prospect | Gold |
| 115O 130 | GRANT | Vein Au-Quartz | Drilled Prospect | Gold |
| 115O 131 | CULLEN | Vein Au-Quartz | Showing | Gold |
| 115O 132 | DEVINE | Vein Au-Quartz | Prospect | Copper, Silver, Gold |
| 115O 133 | SULPHUR | Unknown | Drilled Prospect | Silver, Gold |
| 115O 134 | CARON | Vein Au-Quartz | Drilled Prospect | Gold, Silver |
| 115O 135 | SIX | Unknown | Drilled Prospect | Silver, Gold |
| 115O 136 | CARTENEY | Unknown | Drilled Prospect | Silver |
| 115O 137 | DOM | Unknown | Prospect | Gold, Silver, Tin |
| 115O 138 | COWAN | Unknown | Prospect | Barium, Gold, Silver |
| 115O 139 | MUN | Vein Au-Quartz | Drilled Prospect | Silver, Gold |
| 115O 140 | BRADY | Unknown | Drilled Prospect | Gold |
| 115O 141 | GONZALES | Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn | Showing | Copper, Zinc, Lead |
| 115O 146 | VICTORIA | Plutonic Related Au | Drilled Prospect | Gold, Lead, Arsenic |
| 115O 147 | FARNELL | Vein Au-Quartz | Showing | Gold |
| 115O 148 | ROBIN EGG | Vein Au-Quartz | Drilled Prospect | Gold |
| 115O 149 | SCACH | Vein Au-Quartz | Showing | Gold |
| 115O 150 | PIONEER | Vein Au-Quartz | Drilled Prospect | Gold |
| 115O 151 | AMANDA | Vein Cu+Ag Quartz | Showing | Gold |
| 115O 156 | HEIT | Unknown | Anomaly | Lead, Silver |
| 115O 157 | JUDY | Unknown | Anomaly | Arsenic, Gold |
| 115O 164 | MATGIN | Ultramafic Mafic Alaskan-type Pt±Cu±Fe±Ti | Prospect | Gold, Palladium, Platinum |
| 115O 062 | WHMSTONE | Unknown | Unknown | |
| 115O 066 | GOLDEN ROD | Unknown | Unknown | |
| 115O 217 | JACK | Unknown | Anomaly | |
| 115O 125 | MELBA | Unknown | Anomaly | |
| 115N 020 | MILBURN | Unknown | Anomaly | |
| 115N 040 | CONNAUGHT | Vein Polymetallic Ag-Pb-Zn+Au | Past Producer | Gold, Lead, Silver |
| 115N 044 | ENCHANTMENT | Paleoplacer | Showing | Copper, Gold |
| 115O 011 | TEACHERS SHOWING | Plutonic Related Au | Prospect | Antimony, Gold, Arsenic |
| 115O 057 | EUREKA | Vein Au-Quartz | Drilled Prospect | Silver, Gold, Arsenic |
| 115O 082 | SUNHAM | Unknown | Anomaly | |
| 115O 155 | PIRSCO | Unknown | Unknown | |
| 115O 158 | MAYO | Unknown | Unknown | |
| 115N 162 | FLAM | Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn | Showing | |
| 115O 005 | COOPER | Vein Au-Quartz | Prospect | Molybdenum, Silver, Antimony, Lead |
| 115O 153 | CONNA | Unknown | Unknown | |
| 115N 157 | TYR | Unknown | Unknown | |
| 115N 162 | HECTOR | Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn | Showing | |
| 115O 165 | GOLDEN SADDLE | Orogenic Au | Deposit | Gold, Silver |
| 115O 166 | ARC DEPOSIT | Orogenic Au | Deposit | Gold, Silver |
| 115O 167 | LJS | Unknown | Anomaly | Gold, Zinc, Lead |
| 115O 168 | HENDERSON | Unknown | Anomaly | Copper, Gold |
| 115O 006 | SCOTCH | Unknown | Unknown | Gold |
| 115O 008 | FLATT | Vein Au-Quartz | Anomaly | Gold |
| 115O 153 | THISTLE MOUNTAIN | Vein Au-Quartz | Showing | Gold |
| 115O 154 | SNOWDEN | Unknown | Showing | Gold |
| 115N 037 | MAG | Unknown | Unknown | |
| 115O 045 | MONTE CHRISTO | Unknown | Unknown | |
| 115N 104 | BINGHAM | Plutonic Related Au | Unknown | |
| 115O 007 | THREE SISTERS | Unknown | Unknown | |
| 115N 103 | HECTOR | Unknown | Unknown | |
| 115O 012 | RYANS SHOWING | Vein Au-Quartz | Drilled Prospect | Gold, Silver, Copper, Zinc |
| 115O 171 | SIMMONS | Unknown | Anomaly | Arsenic, Gold |
| 115O 172 | SIRC | Unknown | Anomaly | Gold |
| 115O 173 | KODIAK GOLD | Plutonic Related Au | Anomaly | Antimony, Gold, Arsenic, Nickel |
| 115O 145 | BLUE SKY | Unknown | Unknown | |
| 115O 174 | MAPLE | Unknown | Unknown | |
| 115O 013 | MCKINNON | Porphyry-related Au | Drilled Prospect | Gold, Silver, Antimony |
| 115O 174 | DONNAUE | Porphyry-related Au | Drilled Prospect | Gold, Silver, Antimony |
| 115O 175 | GOLD CAP | Unknown | Anomaly | Gold, Arsenic |
| 115O 176 | Touleary | Volcanogenic Sulphide - type not determined | Drilled Prospect | Copper, Silver, Gold, Zinc |
| 115O 177 | Rum Run | Orogenic Au | Drilled Prospect | Gold, Bismuth, Copper, Arsenic |
| 115O 178 | BIG ALEK | Orogenic Au | Anomaly | Gold, Antimony, Molybdenum |
| 115O 216 | NOKPAWELL | Unknown | Unknown | |
| 115N 103 | ZEEP | Unknown | Unknown | |
| 115O 095 | ABNER | Unknown | Anomaly | |
| 115O 219 | WOLVERINE LEDGE | Unknown | Unknown | |
| | | | | Gold, Silver, Bismuth, Barium, Tellurium, Mercury, |
| 115O 004 | Qtz | Vein Au-Quartz | Deposit | Molybdenum, Lead |
| 115O 009 | COMET | Unknown | Unknown | |
| 115O 059 | BURWIN | Unknown | Unknown | |
| 115O 091 | HRKAC | Unknown | Unknown | |
| 115N 115 | THE | Vein Au-Quartz | Unknown | |
| 115N 101 | BLAKESTAD | Unknown | Unknown | |
| 115O 126 | ALL GOLD | Vein Au-Quartz | Showing | |
| 115O 218 | PEARSON | Unknown | Unknown | |
| 115O 033 | GOLDINE | Unknown | Unknown | |
| 115O 120 | SIWOLDSEN | Ultramafic Mafic Gabbroid Cu-Ni-PGE | Unknown | |
| 115O 010 | TREVA | Vein Cu+Ag Quartz | Anomaly | |
| 115O 159 | PLAT | Unknown | Unknown | |
| 115O 080 | MAJER | Unknown | Unknown | |

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## RECOMMENDED CITATION

MACKIE, R., ARNE, D. AND PENNIMPEDE, C., 2016. Weighted sums model for Intrusion-related Au deposits levelled by geology. In: Enhanced interpretation of stream sediment geochemical data for NTS map sheet 115N and 115O. Yukon Geological Survey, Open File 2016-30, scale 1:250 000, sheet 2 of 13.

Catchment basin polygons generated by the Yukon Geological Survey (J. O. Bruce).

Any revisions or additional geological information known to the user would be welcomed by the Yukon Geological Survey.

Paper copies of this map and the accompanying report may be obtained from the Yukon Geological Survey, Energy, Mines and Resources, Government of Yukon, Room 102-300 Main St., Whitehorse, Yukon, Y1A 2B5. Ph. 867-667-3201, Email geology@gov.yk.ca.

A digital PDF (Portable Document File) file of this map may be downloaded free of charge from the Yukon Geological Survey website: http://www.geology.gov.yk.ca.


Yukon Geological Survey
Energy, Mines and Resources
Government of Yukon

Open File 2016-30


# Weighted sums model for Intrusion-related Au deposits levelled by mapped geology (NTS 115N & 115O) Sheet 2 of 13


by

Rob Mackie, Dennis Arne,
and Chris Pennimpede