



MAYO LAKE MINERALS INC

FOR IMMEDIATE RELEASE
Press release 2014-05

Gold-Arsenic-Antimony Anomalies on Anderson Claim Group

Follow-up Sampling on Davidson, Edmonton and Roop Claim Groups

OTTAWA, ONTARIO, July 21, 2014: Mayo Lake Minerals (“MLM”) is pleased to announce plans for the 2014 field season, namely detailed soil sampling to follow-up geochemical anomalies delineated by MLM in 2012 on its Davidson, Edmonton and Roop claim groups located near Mayo Lake, Yukon Territory. The programs will be similar to 2013 follow-up detailed soil sampling on MLM’s Anderson Claim Group (ACG).

The 2013 program on the ACG was successful in determining highly prospective trenching and drilling targets. The location of the detailed follow-up soil sampling on the ACG is shown on attached Figure 1.

Anderson 2013 Soil Sampling

Highlights: MLM’s 2013 program delineated a **1,500m x 300m discontinuous NE-trending gold-arsenic-antimony anomaly with values up to 200ppb gold (Au), 777 ppm arsenic (As) and 324 ppm antimony (Sb) on the Owl-Anderson Grid (OAG) between Anderson and Owl creeks (Figure 2)**. On a second grid, the Steep Creek Grid (SCG), MLM delineated a **N-trending 900m x 300 gold-arsenic anomaly with values up to 140ppb Au and 254ppm As northwest of Steep Creek (Figure 3)**. Both of these anomalies are open along strike. These results were obtained during follow-up sampling of two of eight anomalies identified on the Anderson Claim Group during MLM’s 2012 sampling program.

The Owl-Anderson Grid: In addition to the **clearly defined NE-trending gold anomaly on the OAG grid (Figure 2)**, a **well-defined NW-trending anomaly is apparent on the contoured plots for many elements, most notably Cu (Figure 4), Fe, La, Mg, Mo, Ni, Th and Zn (Figure 4)**. A notable northward bulge of anomalous values occurs at mid-point of this linear anomaly; it is also weakly reflected in the Au (Figure 2) and Hg plots. High element values paralleling the NE-trending gold anomaly are apparent in the plots for As, Pb, Sb, and Sr; Cu, Fe, Hg, K, Ni, Th and Zn more weakly. Mo and W plots show anomalous values also parallel to this trend, but their axis is off-set to the SE. Plots for some elements also define an E-W trend. All trends parallel linear magnetic features, which may be structurally or lithologically controlled. **The soil geochemistry patterns may well be indicative of Au or poly-metallic veining associated with intrusion-related gold systems (similar to Dublin Gulch (6.3M oz. Au) and Brewery Creek (0.8M oz. Au) in the Yukon and Fort Knox (7.0M oz. Au) in Alaska).**

The Steep Creek Grid: In addition to a broad N-S-trending anomaly (“NSA”), (shown as NE Anomaly and SE Anomaly in figures 3 and 5) marked by high values of Au, Ag and As (Hg not so clearly) these elements also show a westward-trending projection at the midpoint of the NSA (shown as S part of NW anomaly on figures 3 and 5). Also of interest is a donut shaped pattern shown by contoured plots of numerous elements – Cu, Fe, Hg, K, La, Mg, Ni, Pb, Sr, Th and Zn with a core marked by high values of Cr, Mo, Ti and W in the SW part of the grid (Figure 5). **A carbonate-rich phyllite unit was noted over the SE part of the grid, which suggests the possibility of either skarn or Carlin-type mineralization to explain the high Au-Ag-As values there.** The zoned anomaly in the SW part of the grid suggests an intrusion marked by a metasomatic aureole.

Targets defined: The 2013 soil sampling program has focused areas to be trenched and/or drilled in the future and in some cases defined specific targets.

QA/QC: During the 2013 program, a total of about 480 soil samples were collected from the C-horizon with a duplicate being collected every 50th sample. The samples were dried and screened (-80 mesh) at Acme Analytical Laboratories Ltd (“ACME”) in Whitehorse and analyzed by ICP-MS for Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, Au, Th, Sr, Cd, Bi, V, Ca, P, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W, Hg, Sc, Te, S, Ga, Se and Te following aqua regia digestion in Vancouver (ACME analysis code IDX2). Twenty-one samples were re-analyzed by neutron activation for Sb, Cr, La, Sm, Tb, As, Co, Lu, Sc, Th, Ba, Eu, Hg, Se, Sn, Br, Au, Mo, Ag, W, Ca, Hf, Nd, Na, U, Ce, Ir, Ni, Sr, Yb, Cs, Fe, Rb, Ta and Zn. The results from neutron activation and ICP-MS showed similar trends for most critical elements, notably for gold between 10ppb and 100ppb. Acme is compliant under ISO 9001 and all processes during preparation and analysis of a sample are subject to rigorous QA/QC control and continuously monitors its analytical results.

Plans for 2014

During the upcoming 2014 field season MLM will follow-up and detail anomalies delineated from MLM’s 2012 regional sampling program on the Davidson, Edmonton and Roop claim groups. We are excited to revisit these high quality anomalies, and expect to repeat the success of the 2013 program at the ACG.

The Davidson Claim Group contains a long geochemical anomaly with up to 20.9ppm Sb and 15ppb Au in soils on strike with notable skarn mineralization in the cliffs above Davidson Creek, where a rock sample assayed 0.1% Cu, 0.3% Pb and 73ppb Au (Sampling Area One on Figure 6). It is located on the highlands in the southwest part of the block where outcrop was especially sparse. Further detailing of this anomaly will require closer spaced soil sampling and prospecting. Secondary targets within Sampling Area Two include areas marked by geophysically-defined lineations (structures), which intersect geochemical anomalies in soils with values up to 100ppm As, up to 5.5ppm Sb and sporadic Au values up to 24 ppb. Due to swampy terrain, it is a challenge to obtain good samples on some of the highlands adjacent to placer operations and historic anomalous silt samples.

The Edmonton Claim Group straddles the Robert Service Thrust Fault at two locations (Figure 7). The data indicates that there are different background levels for most elements on either side

of this thrust. The primary target in the Edmonton Claim Block is a large Au-Sb-As anomaly associated with a large geophysically-defined alteration zone or shallow intrusion. Geochemical samples from this target yielded values as high as 346ppm As, 1.4ppm Sb and 16ppb Au. This anomaly is located above Edmonton Creek and could be the source of placer Au extracted from the creek in the past. Earlier stream sediment samples taken by the Geological Survey of Canada during Operation Keno (**OK**) from Edmonton Creek yielded anomalously high boron values, some of the highest values obtained during OK. Several small conductors on the east side of Edmonton creek have never been followed up with prospecting

The Roop Claim Group contains a large anomaly in the center of the claim; it is marked by sporadic anomalous gold values of up to 18ppb Au within continuous high As and Sb anomalies, yielding up to 26ppm As and 2ppm Sb (Figure 8). It is on trend with a gold showing in the Carlin Claim Group to the south; this trend is defined by the geology and geophysical structures. Soil anomalies do not appear to extend to the southern end of the block where thick glacial overburden may mask geochemical signatures. Several gossans and stock works in or near this anomaly show evidence of post metamorphic flow of fluids, however rock samples failed to yield anomalous results; this is not unexpected as investigations at the a showing to the south indicate near-surface bedrock may have been leached of metals.

This press release was prepared by Mr. T. B. Sutherland, Project Geologist, and Dr. V. N. Rampton, P. Eng. President and CEO, MLM. Dr. Rampton is a “qualified person” under the guidelines of N.I. 43-101.

About Mayo Lake Minerals Inc.:

Mayo Lake Minerals is a private company focussed on the rapid development of precious metal projects in the Mayo Mining District of the Yukon Territory. It is earning a 100% interest subject to 3% NSR in 1754 claims in 7 claim groups, totalling 354 km², within the Tombstone Belt of the Tintina Gold Province (TGP) in the Yukon Territory and plans on adding to its portfolio in the near future. It currently has 28,422,500 common shares outstanding.

This press release contains certain forward-looking statements, which are based on the opinions and estimates of management at the date the statements are made, and are subject to a variety of risks and uncertainties and other factors that could cause actual events or results to differ materially from those projected. MLM undertakes no obligation to update forward-looking statements if circumstances or management’s estimates or opinions should change. The reader is cautioned not to place undue reliance on forward-looking statements.

For additional information contact:

Vern Rampton Ph.D., P. Eng, President and CEO

E-mail: vrampton@rogers.com

Tel: (613) 836-2594

Darrell Munro, BB.A, LL.B, Corporate Administration

E-mail: darrellmunro@rogers.com

Tel: (613) 836-0198

Mayo Lake Minerals Inc.

107 Falldown Lane,

P.O. Box 158,

Carp, Ontario

K0A 1L0

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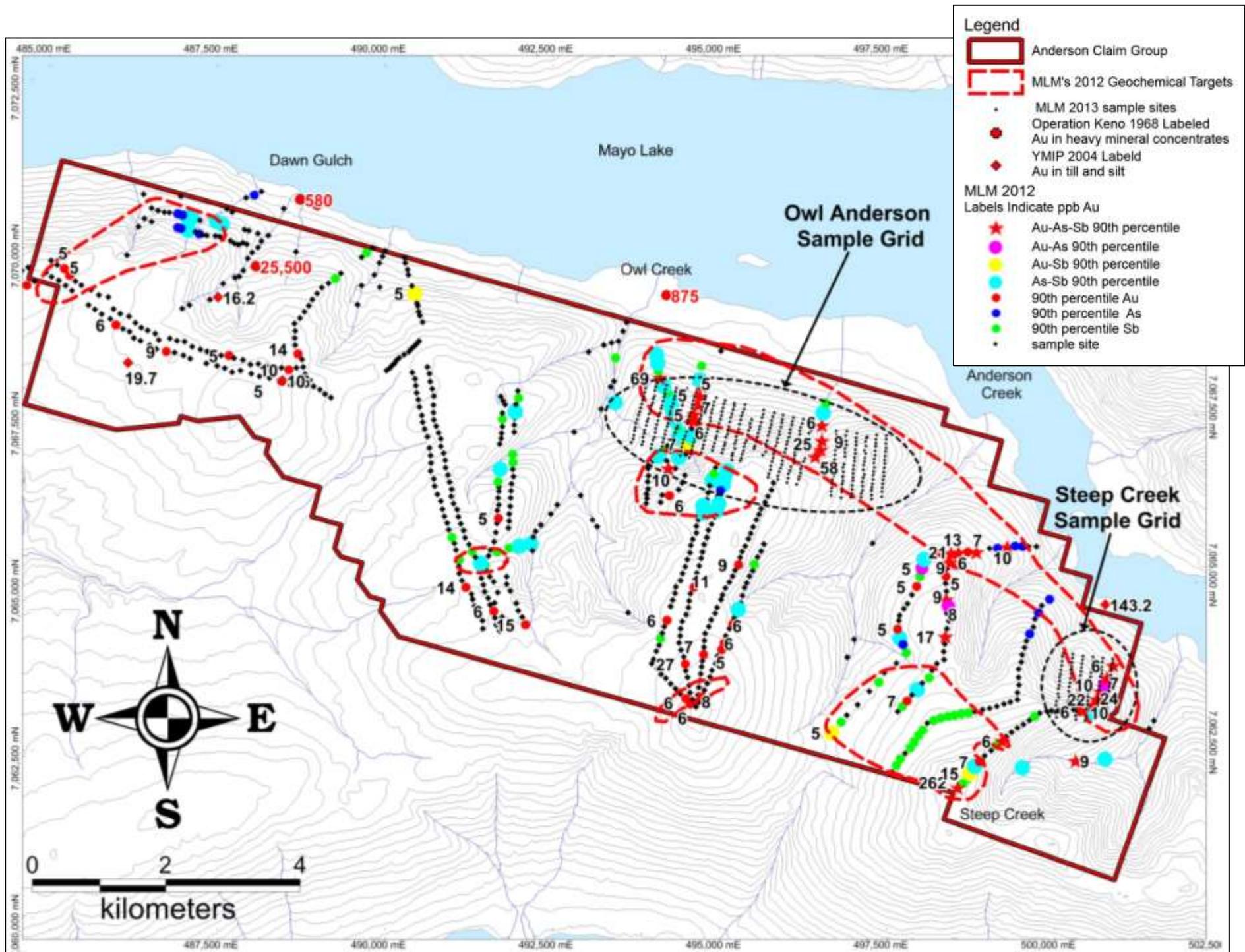


Figure 1: Location of the 2013 detailed soil sampling grids and summary of results from MLM's 2012 sampling program

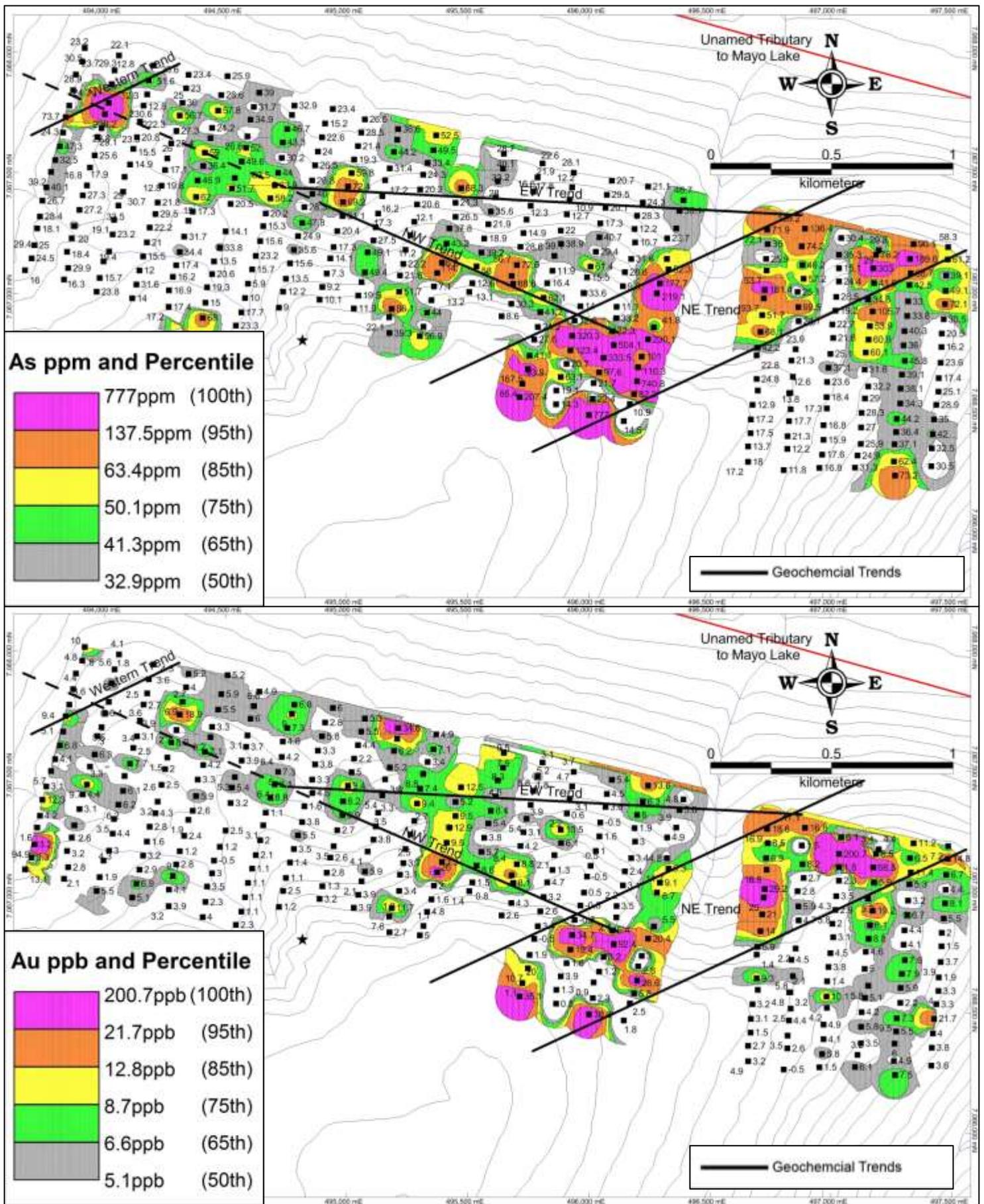


Figure 2: Contoured Au and As values from Owl-Anderson Grid, 2013 MLM program.

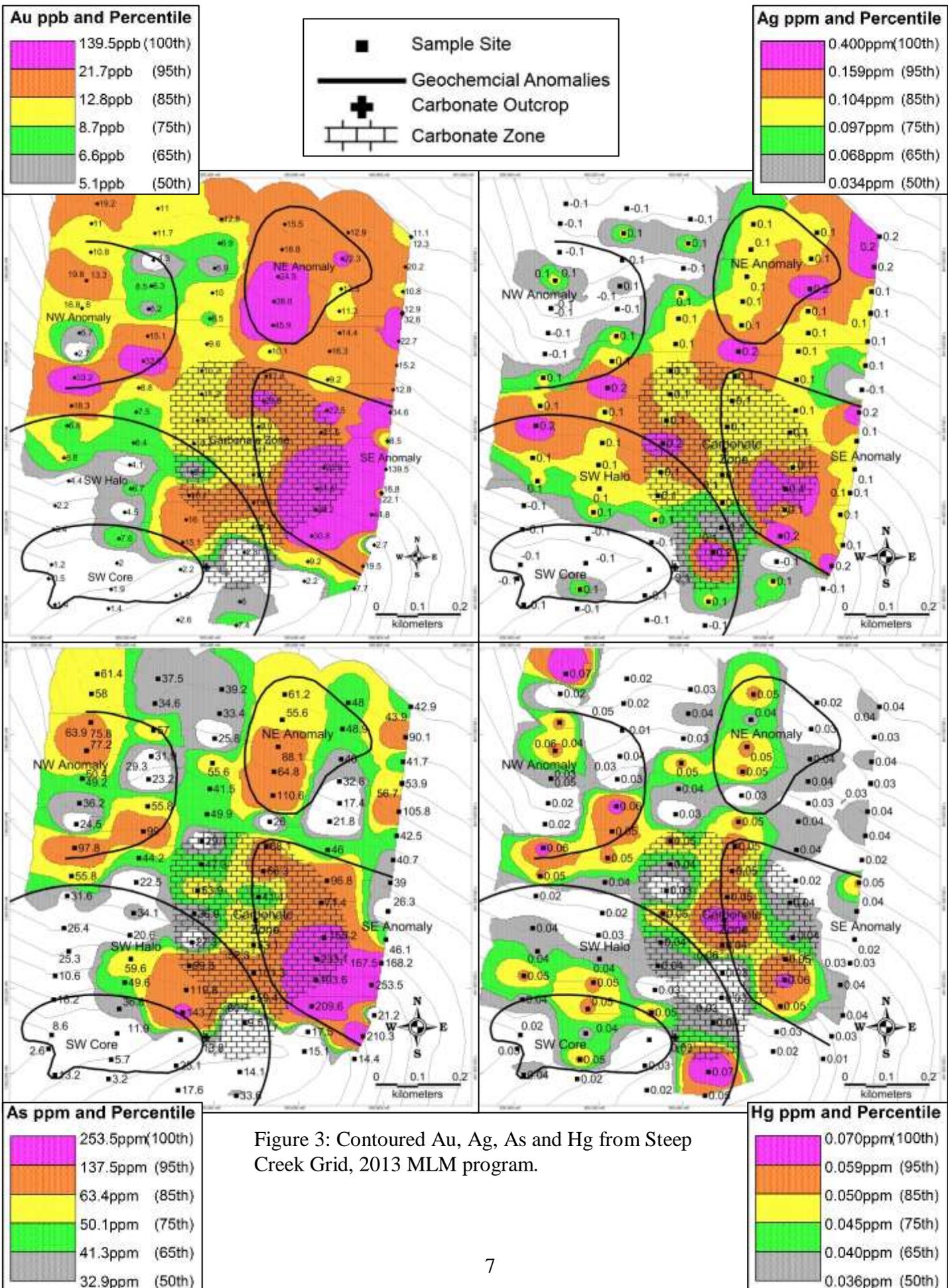


Figure 3: Contoured Au, Ag, As and Hg from Steep Creek Grid, 2013 MLM program.

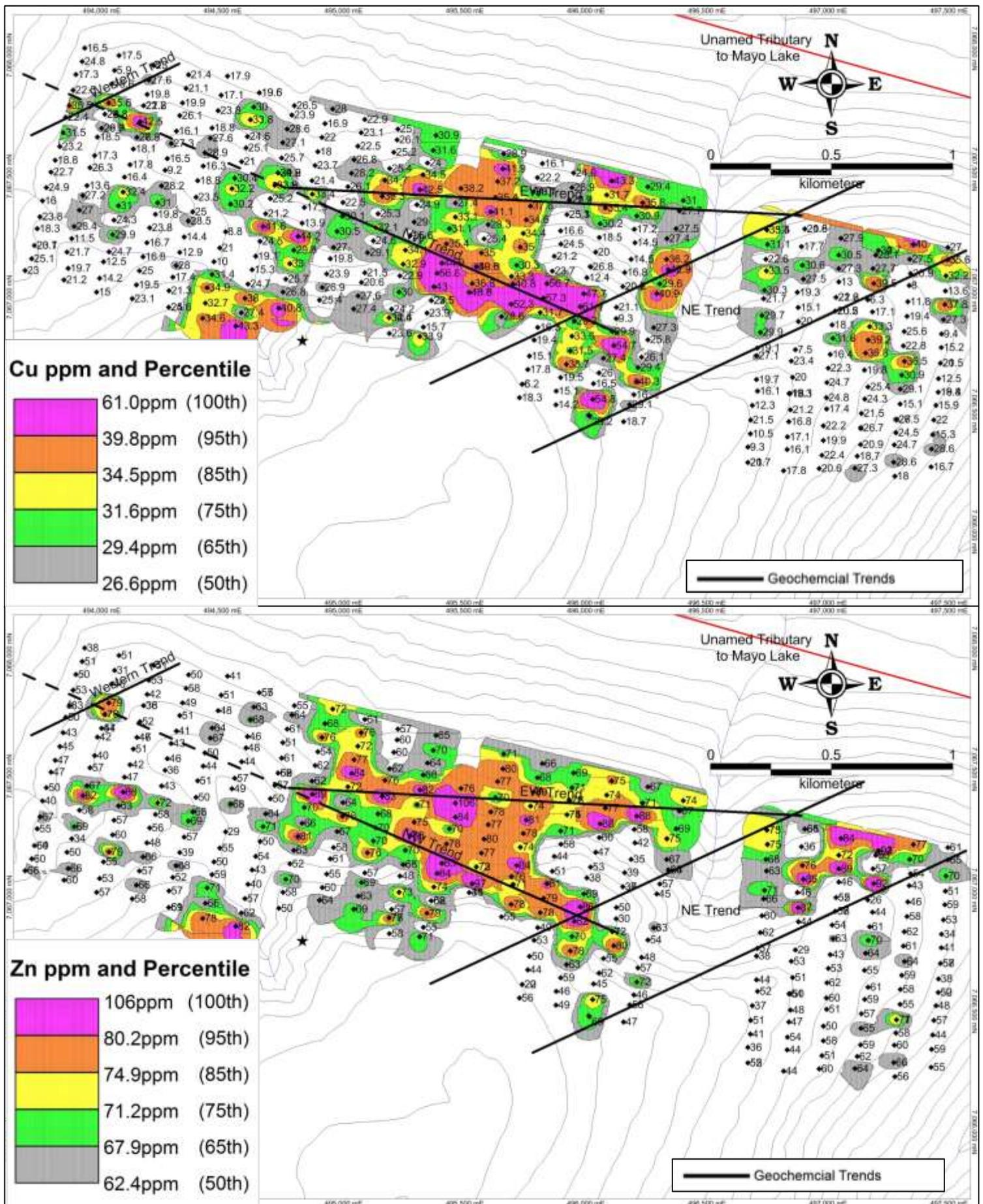


Figure 4: Contoured Cu and Zn values from Owl-Anderson Grid, 2013 MLM program.

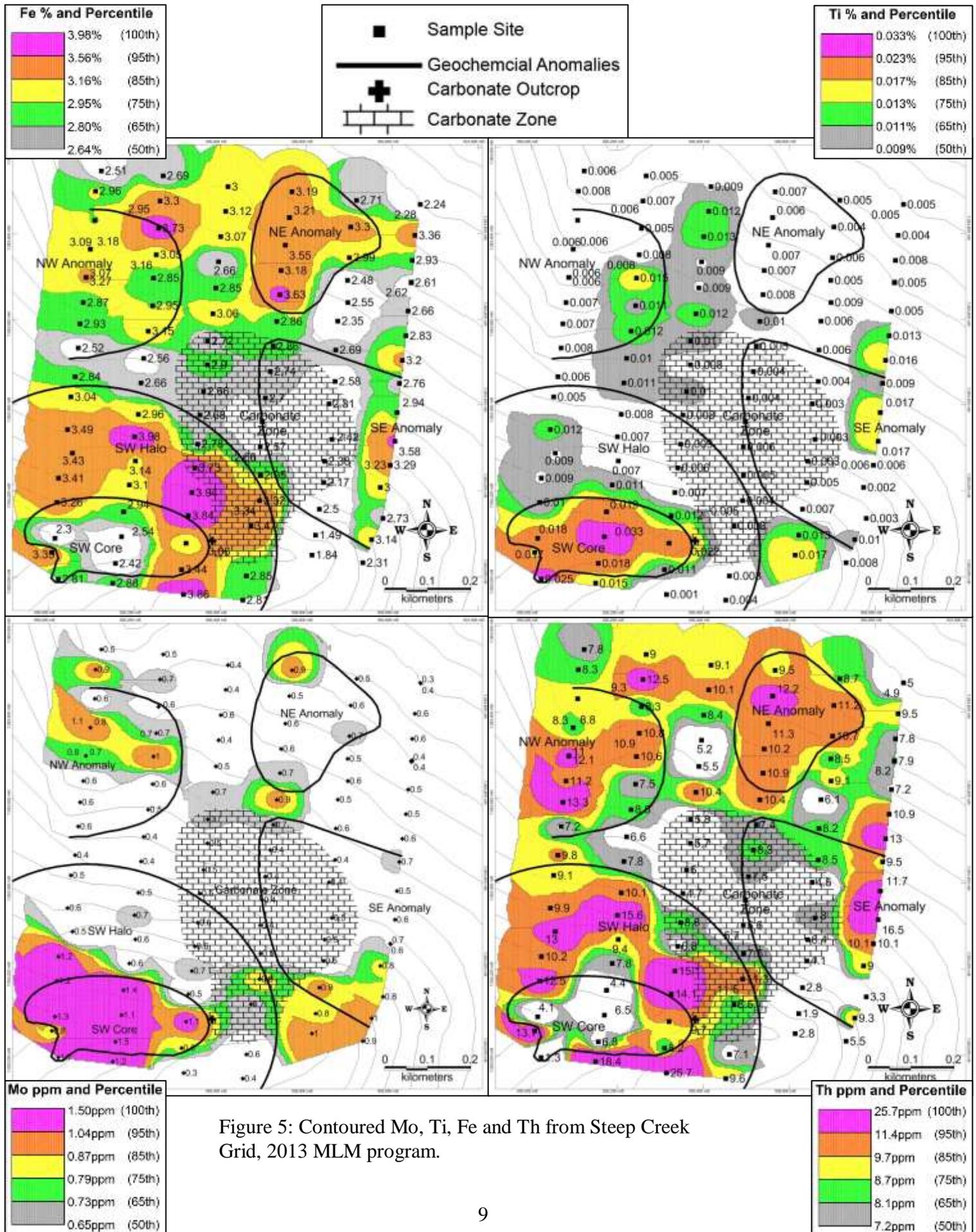


Figure 5: Contoured Mo, Ti, Fe and Th from Steep Creek Grid, 2013 MLM program.

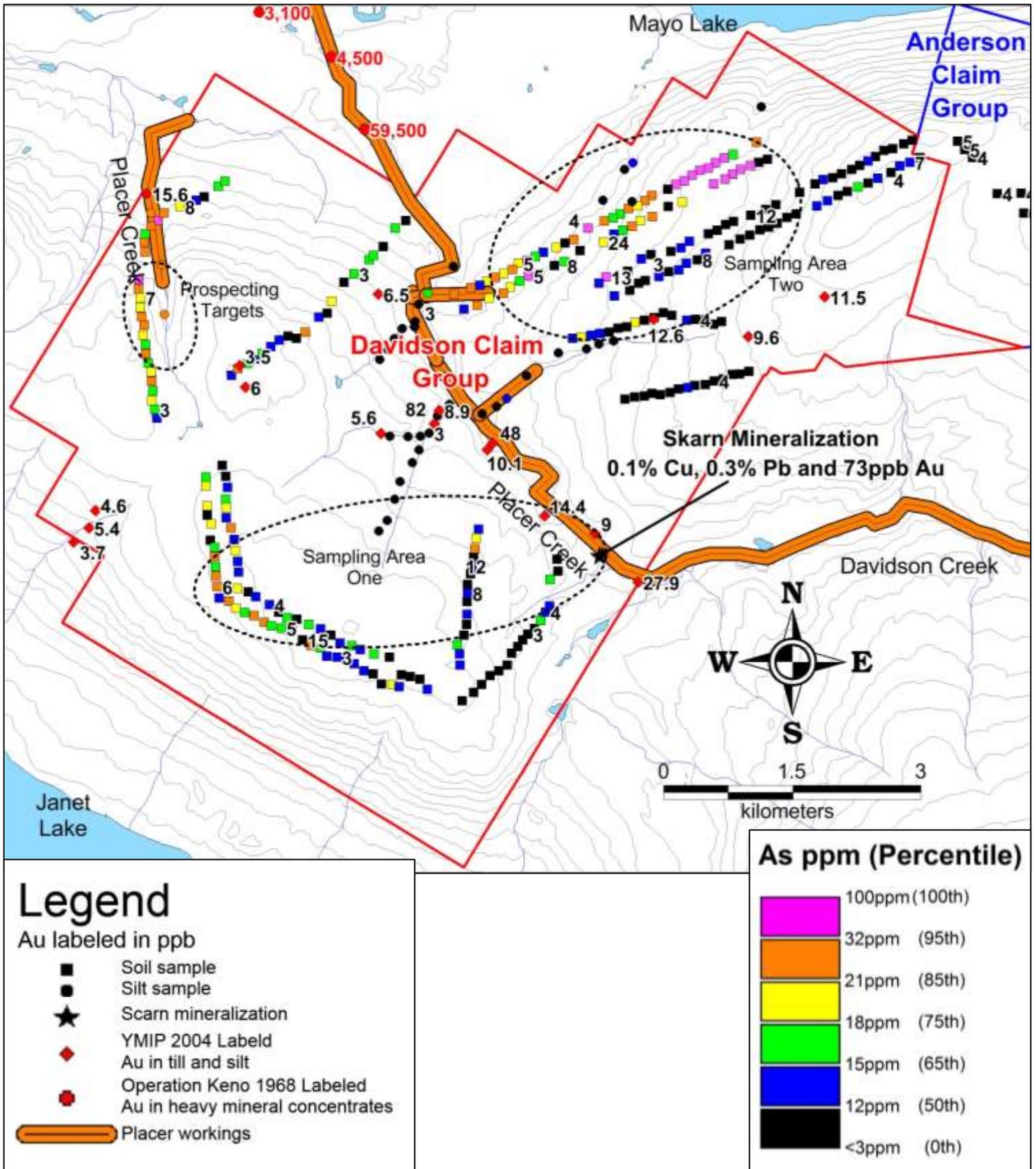
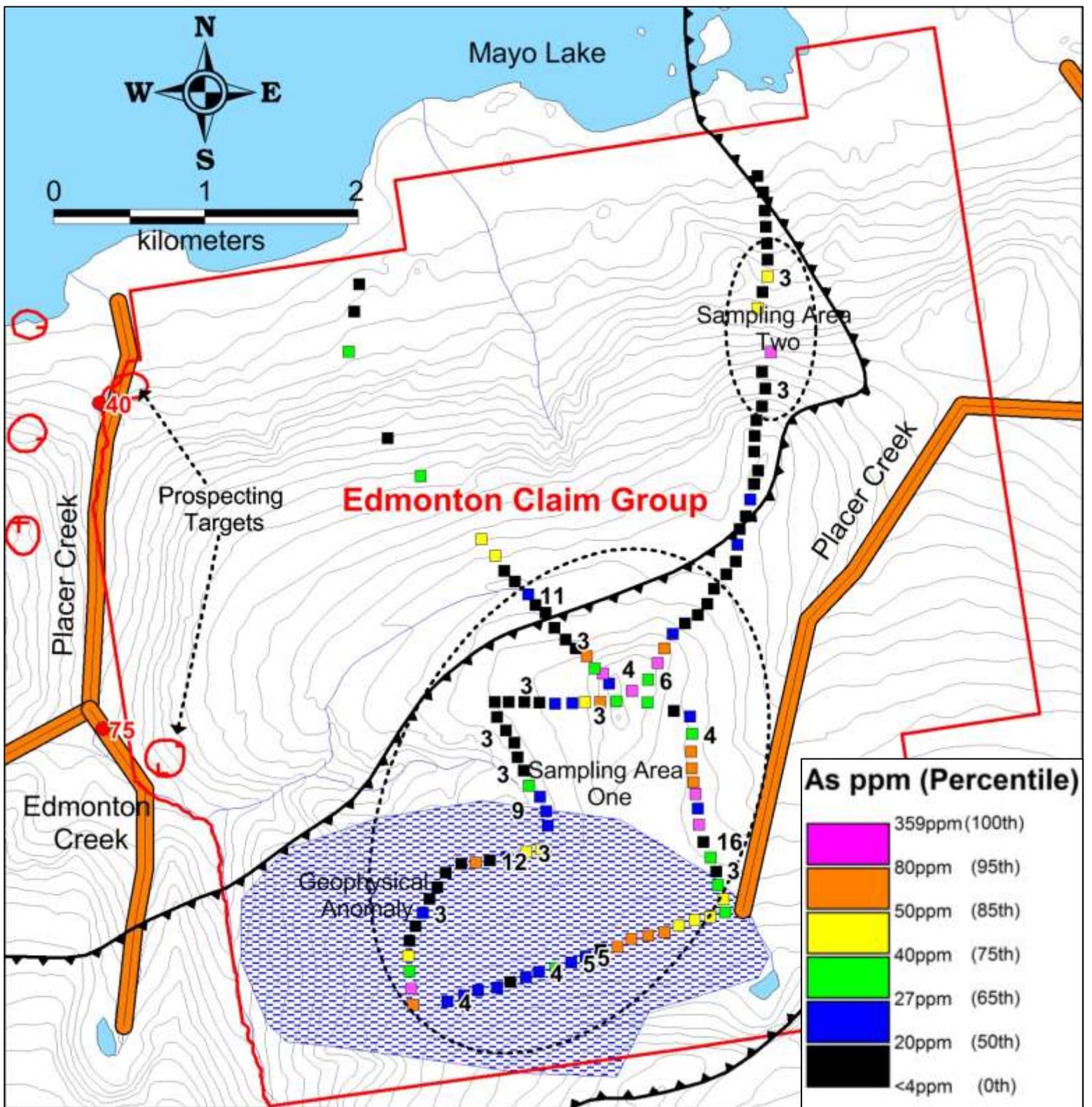


Figure 6: Proposed areas for soil sampling and prospecting during 2014 on Davidson Claim Group and As results from 2012 MLM soil sampling, Au results from 2004 YMIP soil and silt sampling and Au in heavy minerals samples from Operation Keno.



Legend

Au labeled in ppb

- Soil Sample
- Operation Keno 1968 Labeled Au in heavy mineral concentrates
- Robert Service Thrust
- Placer workings
- Alteration zone or shallow intrusive
- Conductors circa 1966

Figure 7: Proposed areas for soil sampling and prospecting during 2014 on Edmonton Claim Group and Au and As results from 2012 MLM soil sampling and anomalous Au in heavy minerals samples from Operation Keno.

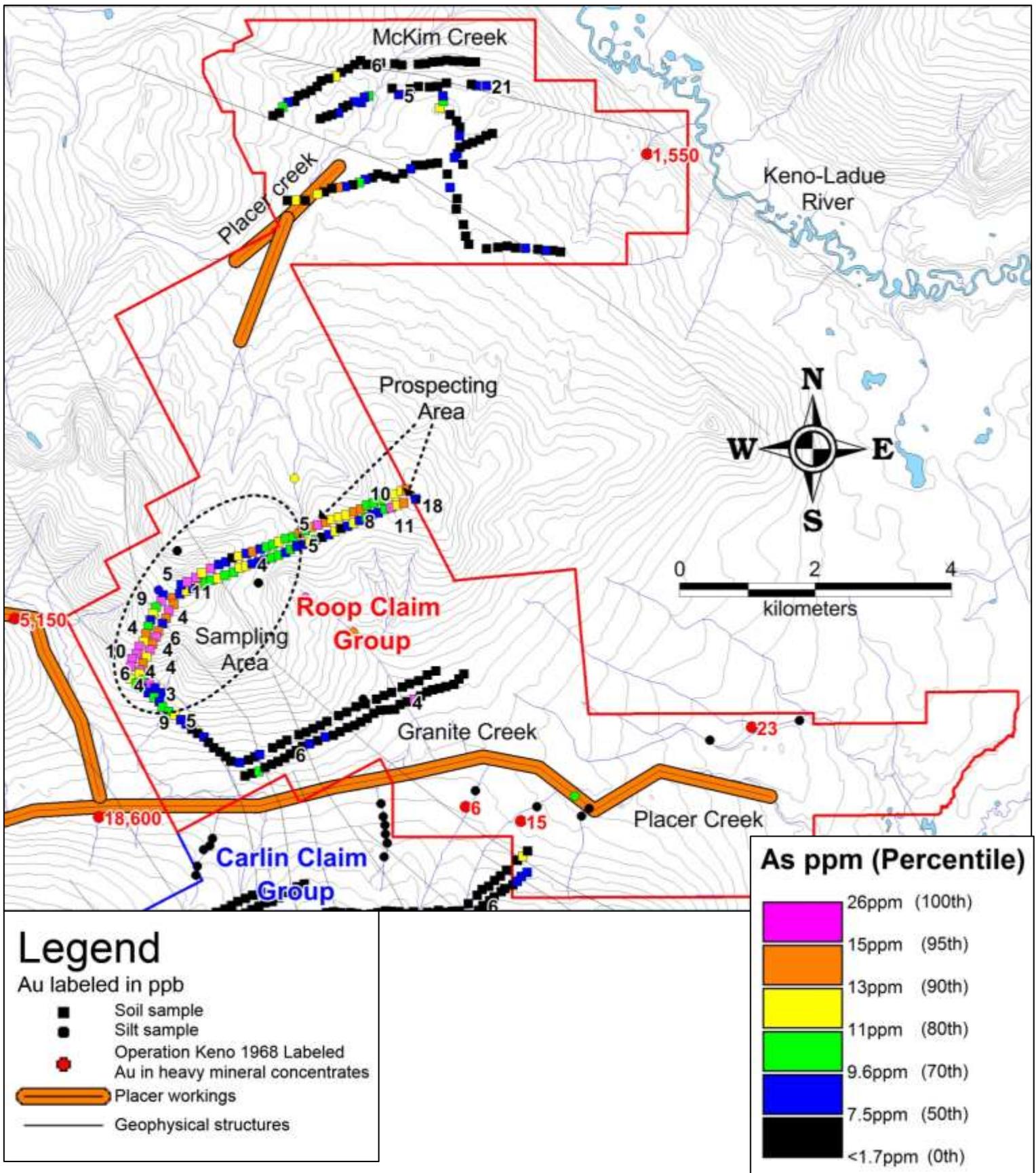


Figure 8: Proposed areas for soil sampling and prospecting during 2014 on Roop Claim Group and Au and As results from MLM 2012 sampling and anomalous Au in heavy minerals samples from Operation Keno.