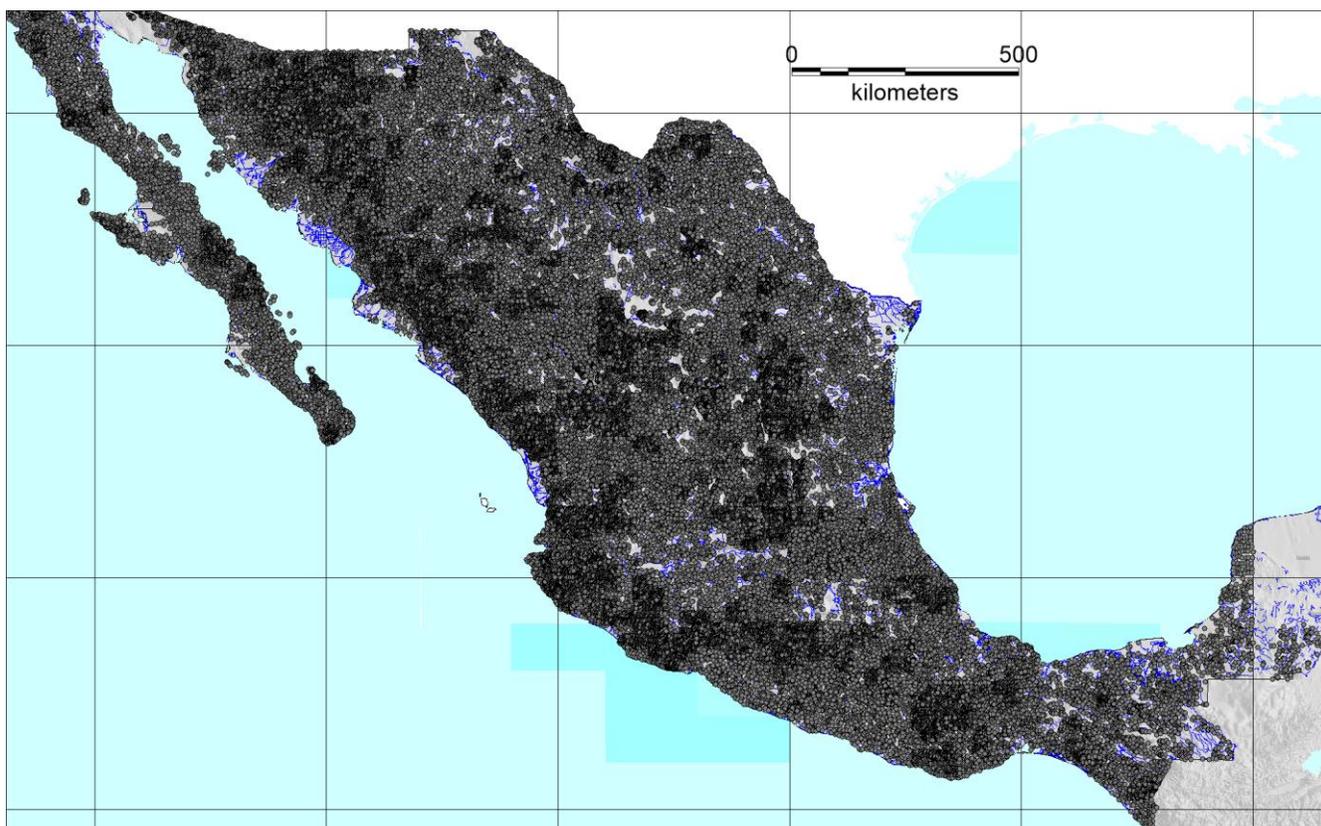


# Mexico Multielement Geochemical GIS Database

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**Carl E. Nelson, president  
Recursos del Caribe, S.A.  
2360 23rd Street  
Boulder, Colorado 80304  
nelson@cbmap.net**

Multielement geochemical data for a total of 151,192 stream sediment samples has been compiled and is available (in Mapinfo or ArcGIS format). The area covered is shown on the map, below. This database includes analytical results for Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sc, Se, Sn, Sr, Te, Tl, U, W, and Zn plus some results for Ga, Ti and F. All of the geochemical data is available to the public; no confidential mining or exploration company data is included.



#### Source of Data:

Stream sediment sample locations and associated analytical data are also available from the Servicio Geológico Mexicano (SGM). The SGM data is sold as separate, individual files for over 800, individual, 1:50K and 1:250K quadrangles. A price list for the SGM databases can be downloaded from: <https://www.gob.mx/sgm/acciones-y-programas/lista-de-precios-vigentes> and can be purchased by first registering at: <http://www.sgm.gob.mx/ventas-sgm/EntraCotizacion.jsp>. Companies interested in stream sediment geochemical data are encouraged to support the SGM through the purchase of raw data covering their area of interest.

#### Recursos del Caribe stream sediment geochemical database:

Recursos del Caribe S.A. (RdC), in conjunction with Gambusino Prospector de Mexico S.A. de C.V. (Gambusino), has compiled the multielement stream sediment data from 134, separate, 1:250,000 scale and 667, separate, 1:50,000 scale SGM databases. The RdC database currently plots 151,192 stream sediment samples and provides analytical results for 31 elements including Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sc, Se, Sn, Sr, Te, Tl, U, W, and Zn plus some results for Ga, Ti and F. It is regularly updated as new data becomes available.

In addition to analytical data, the RdC database includes a high-resolution (10-meter) shaded relief base map, major drainages and critical infrastructure, e.g. roads, cities, towns, etc. The RdC database is a product that can be accessed quickly and easily and applied to exploration in any part of Mexico.

The RdC database also provides display showing the location and magnitude of stream sediment geochemical anomalies. The figures on the final page of this handout are sample plots of Au and Cu anomalies in stream sediment samples from the compiled RdC database. These plots demonstrate how the database can be used to select specific areas for follow-up field work. Additional statistical methods can be easily applied given that the data for 801 individual quadrangles has been compiled.

Gambusino geologists are available on a consulting basis to assist with target selection, field work and for exploration services in general ([www.gambusinoprospector.com](http://www.gambusinoprospector.com)).

### Sampling and Analytical Procedure:

Samples of active stream sediment, collected according to procedures established by the U.S. Geological Survey and the Canadian Geological Survey, were screened on site to minus 80 mesh.

Geochemical analyses for Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sc, Se, Sn, Sr, Te, Tl, U, W, and Zn (plus some results for Ga, Ti and F) were performed at the SGM lab (formerly the Consejo de Recursos Minerales) by inductively coupled plasma - emission spectrometry (ICP-ES). Gold was first subjected to a fire assay preparation procedure; volatile elements including Sb, As, Te, Se, Sn and Bi were stabilized by hydride prior to analysis. Detection limits were 1 ppb for Au, Se, Te and 0.1 ppm for most other elements.

### Mexico Multielement Geochemical Database:

Multielement geochemical data for 151,192 stream sediment samples analyzed for 31 elements including Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sc, Se, Sn, Sr, Te, Tl, U, W, and Zn plus some results for Ga, Ti and F and provided in either MapInfo table (.tab) or ArcGIS shape file (.shp) format along with a shaded relief map, major drainages, infrastructure and a display of base and precious metal anomalies (see figure on the final page of this handout for a sample plot of Au and Cu anomalies).

### Pricing:

GIS database, in either ArcGIS or MapInfo format,  
for 151,192 stream sediment samples (31 elements): US \$50,000

GIS database, in either ArcGIS or MapInfo format,  
for all samples from a selected area (31 elements): US \$0.50 per sample

