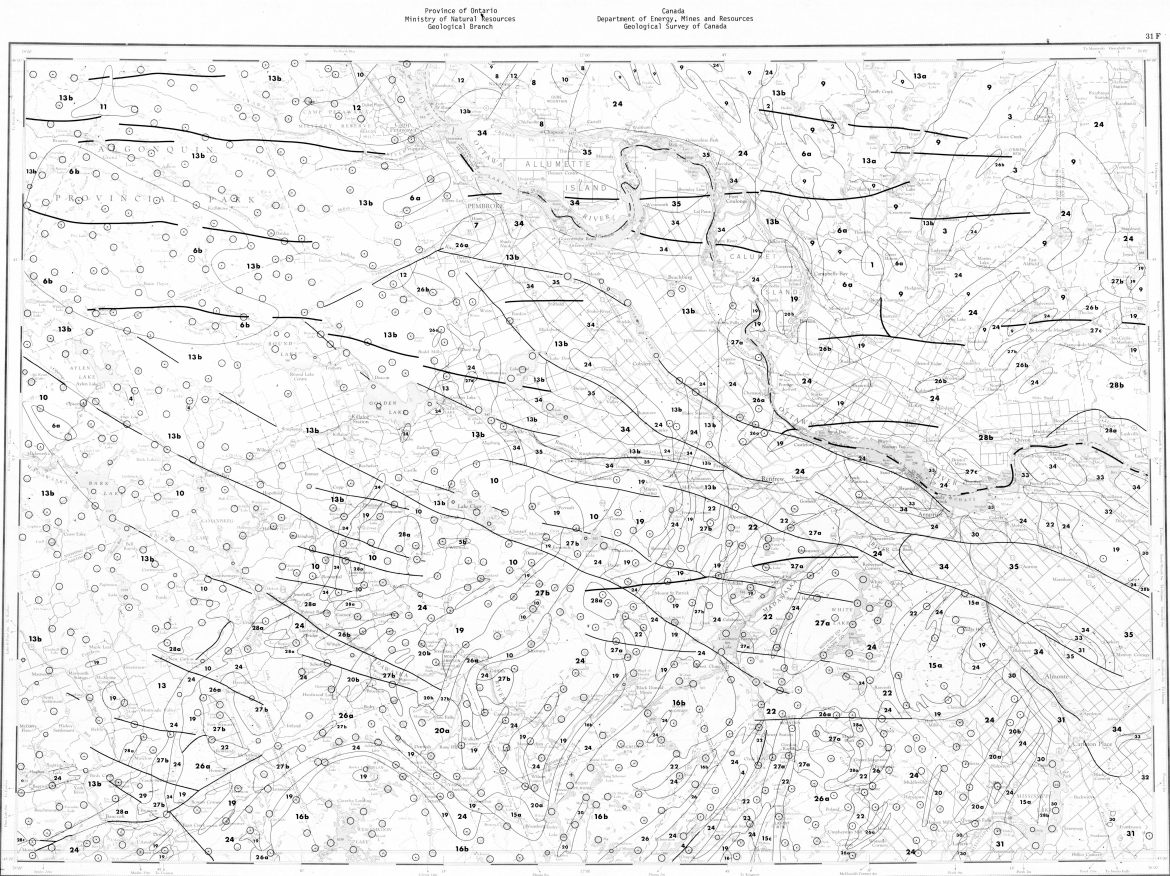


NOTE: This legend is common to Open File 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

- MIGRALE OBSERVATION**
- 31 MICA: muscovite, traceable
  - 32 BLACK PEARL OOLITE: limestone
  - 33 MICROLITITE: sandstone, shale, limestone
- LITHOLOGY**
- 34 GORBED: calcite
  - 35 MICA: sandstone, calcite
  - 36 MICA: calcite
  - 37 GORBED: calcite
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  - 100 MICA: calcite
- Geological contact**.....
- Fault**.....
- Style**.....



Geology derived from the map 1336-A, Riviere Guillaume at the scale of 1: 1,000,000. Compiled by A.J. Bear, W.H. Poole and H.V. Sandford, 1971.

Geological cartography by the Geological Survey of Canada.

Base-map at the same scale published by the Mapping and Charting Establishment, R.C.C. 1968-61.

Magn. declination 1077. 11043.3' West decreasing 0.1' annually. Magnetic survey from 1953' on the S.E. corner to 1059.5' on the N.W. corner of the map area.

Elevation in feet above mean sea-level.

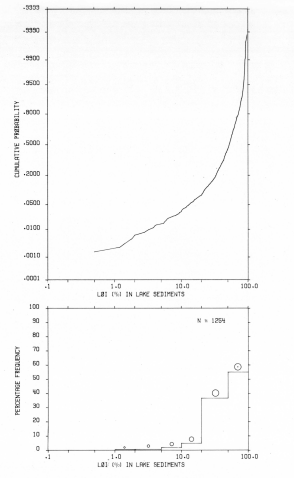
**Geological Symbol and Data Presentation**

The concentration of an element at a sample site is graphically represented as one of 15 symbols. If a sample was collected but there is no data available a dot is plotted. The symbols are symmetrically arranged so that they first increase in size to the eighth symbol and then increase in thickness to the fifteenth. The two small crosses at the low end of the scale are used to respectively denote concentrations below the analytical detection limit or, in the data group consisting of the detection limit, the data are grouped on a semi-logarithmic scale, i.e., 1, 2, 3, 10, 100, 1000. Five degrees can be assumed with arbitrary division has been chosen for the concentration data series of maps constructed by the National Geophysical Reconnaissance. The choice of symbols and the data groups they represent for any specific element is used on the lithological and cumulative frequency plots for the total sample from one, or more contiguous, open file sheets covered in one field season. The eighth symbol is used for the metal group as defined by the lithology. This group usually includes the median of the data as defined by the 0.5 (50th) point on the cumulative frequency plot. Some, or all, of the remaining 14 symbols are chosen so as to achieve an appropriate graphical impact. An example of all 15 symbols is given below.

The symbol maps, being based on the total survey data distributions, are unaffected by the availability of ever increasing levels of knowledge in bedrock and surficial geology, and other environmental factors. Therefore, the raw data symbol maps are only intended to assist the rapid location of the geophysical features. To fulfil the needs of a more specific and thorough interpretation, the raw symbol maps should be modified using the field and analytical data provided in the data listings and any other knowledge available. To assist in the appraisal and modification of the data in terms of the symbol map bedrock geology, a table of summary statistics and proposed threshold values for each mapped bedrock unit, or broad lithologic unit, are based on the total survey data, is presented below. This table can be used alone, or in conjunction, with the sample location map and data listings to indicate above threshold samples where they occur on the map. In many instances, the table will also illustrate, more clearly than the map, in many instances, the geological levels or bedrock type. It was often also observed that whilst the sampling data appears to distribute randomly, when interpreted on a lithological map or lithologic units appears to approximate a normal distribution. The proposed thresholds presented are believed to be useful in interpreting the data from a mineral exploration viewpoint. Locations of samples with concentrations in excess of the threshold for the metal unit may therefore be studied carefully. The above threshold concentration can be due to a wide range of geological and environmental factors, but one of these could be the presence of abnormal concentrations of the element in a form of interest to the mineral exploration.

To comprehensively study an area, all available geological, environmental and recorded data should be utilized. The data separation by bedrock type can often be improved by constructing new data series and deriving local threshold levels based on the most detailed and up-to-date knowledge available.

The term reliability factor and value that appears below the table is an estimate of the reliability of the geochemical map. On the basis of duplicate sampling 50 of the 100 sampled it can be stated that there is a 90% chance that if any data is resampled and identical methods of sample preparation and analysis are used the new value will lie between 1 + 95 and 1 - 95 where X is the original value obtained. This factor takes into account variability due to both heterogeneity of the centre-take bottom sediments and sample preparation and analytical causes.



**Table of Thresholds for Major Geological Units**

Lithology	No. of Samples	Mean	S.D.	C.S.E.	Threshold
Limestone	23	41	21	65	70
Sandstone	27	56	25	40	70
Dolomite	71	29	41	70	41
Slate	21	53	20	37	70
Marble	3	71	13	19	70
Conglomerate	5	71	13	19	70
Audacity	79	69	25	42	70
Shellite	2	40	19	48	70
Gneiss	29	59	25	37	70
Granite	107	49	18	37	70
Quartzite	47	58	24	42	70
Gabbro	51	57	21	36	70
Diorite	61	61	24	42	70
Amphibolite	43	59	21	36	70
Gneiss	307	65	20	44	70
Pragwitz	71	55	24	44	70
Migmatite	93	53	20	37	70
Unknown	8	53	21	40	70

Data units are percent Reliability factor = 1.31

NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 2-1976  
OPEN FILE 606  
Resource Geophysics and Geochemistry Division  
Geological Survey of Canada, Ottawa

Geochemistry and Federal-Provincial coordination by E.H.M. Hornbrouk  
Field operation supervised by G.L. Duran  
Analytical chemistry by J.L. Lynch  
Data monitoring by H.S. Garrett, W.O. Lund and D. Ellwood  
Ontario Geological Branch  
Federal-Provincial coordination by R.D. Cando

Contractors  
Sample preparation by Golder Associates  
Chemical analyses by Chemex Labs Ltd.

This map forms one of a series of 28 sheets released under Geological Survey of Canada Open File 606-608. The open files consist of data for 17 elements each, per cent loss on ignition and sample site location.

The data are also available in digital form. For further information please contact:

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NATIONAL GEOCHEMICAL RECONNAISSANCE MAP 2-1976  
LOSS ON IGNITION  
CANADA-ONTARIO SUBSIDIARY AGREEMENT ON MINERAL EXPLORATION AND DEVELOPMENT  
Scale 1:250,000  
Min. 0 5 Miles  
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