

REGIONAL LAKE SEDIMENT GEOCHEMICAL RECONNAISSANCE DATA, MACKENZIE 1975, GSC-OF326, NTS 75K

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GEOLOGICAL SURVEY OF CANADA

REGIONAL LAKE SEDIMENT GEOCHEMICAL RECONNAISSANCE DATA

THE FOLLOWING TABLES DISPLAY THE DATA RECORD FORMAT SPECIFICATIONS.

THE FIELD DATA WAS STORED AS FOLLOWS:

ELEMENT	CARD COLUMNS
MAP	1 01-06
ID	1 07-12
UTM ZONE	1 13-14
UTM EAST	1 15-20
UTM NORTH	1 21-27
ROCK TYPE	1 28-31
LAKE AREA	1 32-35
SAMPLE DEPTH	1 36-38
REPLICATE STATUS	1 39-40
RELIEF	1 41-43
COMPOSITION	1 44-46
GEL	1 47
CONTAMINATION	1 48-51
SAMPLE COLOUR	1 52-57
SUSPENDED MATTER	1 58-59

THE ANALYTICAL DATA WAS STORED AS FOLLOWS:

(THE SECOND FIGURE UNDER THE DETECTION LIMIT HEADING IS USED  
ARBITRARILY TO DENOTE VALUES BELOW THE DETECTION LIMIT-USUALLY  
1/2 DETECTION LIMIT)

ELEMENT	UNITS	CARD COLUMNS	DETECTION LIMIT	METHOD	ATTACK	PREPARATION
ZN	PPM	2 21-25	2	1 AA-AIRACET	NGR-1	CRGRBALL
CU	PPM	2 26-30	2	1 AA-AIRACET	NGR-1	CRGRBALL
PB	PPM	2 31-35	2	1 AA-AIRACET	NGR-1	CRGRBALL
NI	PPM	2 36-40	2	1 AA-AIRACET	NGR-1	CRGRBALL
CO	PPM	2 41-45	2	1 AA-AIRACET	NGR-1	CRGRBALL
AG	PPM	2 46-50	0.2	0.1 AA-AIRACET	NGR-1	CRGRBALL
MN	PPM	2 51-55	5	2 AA-AIRACET	NGR-1	CRGRBALL
AS	PPM	2 56-60	1.0	0.5 NGR-AGDDC	NGR-AS1	CRGRBALL
MO	PPM	2 61-65	2	1 AA-N2OACET	HNO3HCL4	CRGRBALL
FE	PCT	2 66-70	0.02	0.01 AA-AIRACET	NGR-1	CRGRBALL
HG	PPB	2 71-75	10	5 AA-SILICA	HNO3HCL5	CRGRBALL
LOI	PCT	2 76-79	1.0	0.5	NGR-LOI	
U	PPM	3 21-25	0.2	0.1 DNC-U		CRGRBALL

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DATA LIST LEGEND

MAP - NATIONAL TOPOGRAPHIC SYSTEM(NTS)-LETTERED QUADRANGLE

ID - REMAINDER OF SAMPLE NUMBER-YEAR(2), FIELD CREW(1),  
SAMPLE SEQUENCE NUMBER(3)

UTM COORDINATS - UNIVERSAL TRANSVERSE MERCATOR(UTM) COORDINATE  
SYSTEM - SAMPLE COORDINATES

ZN - ZONE

EAST - EASTING (METERS)

NORTH - NORTHING (METERS)

ROCK TYPE - MAJOR ROCK TYPE OF LAKE CATCHMENT AREA

LAKE AREA - AREA OF LAKE SAMPLED

SMP DTH - SAMPLE DEPTH MEASURED TO THE NEAREST FOOT

RP ST - REPLICATE STATUS - RELATIONSHIP OF SAMPLE WITH  
RESPECT TO OTHERS WITHIN THE SURVEY

RELF - RELIEF OF THE SURROUNDING LAKE CATCHMENT BASIN

COM - BULK MECHANICAL COMPOSITION OF SAND, FINES AND  
ORGANICS IN THAT ORDER

GEL - PRESENCE OF AN ORGANIC GEL OR GYTTJA

CONT - CONTAMINATION - HUMAN OR NATURAL (WORK-DRILL/TRENCH,  
CAMP, FUEL OR GOSSAN)

SMPL COLOR - SEDIMENT COLOUR

SUSP - SUSPENDED MATTER

ZN - ZINC BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)

CU - COPPER BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)

PB - LEAD BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)

NI - NICKEL BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)

CO - COBALT BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)

AG - SILVER BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)

MN - MANGANESE BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)

AS - ARSENIC BY COLOURIMETRY (PPM)

MO - MOLYBDENUM BY ATOMIC ABSORPTION SPECTROSCOPY (PPM)

FE - IRON BY ATOMIC ABSORPTION SPECTROSCOPY (%)

HG - MERCURY BY FLAMELESS SPECTROSCOPY (PPB)

LOI - LOSS ON IGNITION BY WEIGHT DIFFERENCE (%)

U - URANIUM BY DELAYED NEUTRON ACTIVATION (PPM)

ROCK TYPE:

BEXV - BASIC EXTRUSIVE

CGLM - CONGLOMERATE

DIBS - DIABASE

DLMT - DOLOMITE

GNSS - GNEISS

GRDR - GRANODIORITE

GRNT - GRANITE

HRFL - HORNFELS

SMRK - SEDIMENTARY ROCK

SNDS - SANDSTONE

LAKE AREA:

POND - POND

LT 1 - 1/4 TO 1 SQ. KM.

1-5 - 1 TO 5 SQ. KM.

GT 5 - GREATER THAN 5 SQ. KM.

RP ST:

00 - ROUTINE SAMPLE

10 - FIRST OF FIELD DUPLICATE

20 - SECOND OF FIELD DUPLICATE

RELF:

L - LOW

M - MEDIUM

H - HIGH

COM:

0 - ABSENT

1 - MINOR (1-33%)

2 - MEDIUM (33-66%)

3 - MAJOR (66-100%)

GEL:

0 - ABSENT

1 - PRESENT

CONT:

BLANK - NONE

1 - PRESENT

SMPL COLOR:

TN - TAN

YL - YELLOW

GN - GREEN

GY - GREY

BR - BROWN

BK - BLACK

SUSP:

BLANK - NONE

L - LIGHT

H - HEAVY