

HYDRAULICS DIVISION  
TECHNICAL NOTE

DATE: October 1982 REPORT NO: 82-23

TITLE: Lake Ontario Nearshore Sediment Data, Long Branch  
to Whitby

AUTHOR: N. A. Rukavina

REASONS FOR REPORT: Requested by the Metro Toronto Region Conservation  
Authority.

CORRESPONDENCE FILE NO:  
3668-1

## 1.0 INTRODUCTION

This note responds to a request from the Metropolitan Toronto and Region Conservation Authority (Appendix 1) for data on the Lake Ontario nearshore sediments of the Long Branch to Whitby reach. The information provided includes descriptions and grain-size data for surface-sediment samples, the tracks of echo-sounding traverses, jetting data on unconsolidated sediment thickness and logs of short sediment cores. Data coverage is shown in Figure 1.

## 2.0 BACKGROUND

The Toronto area was sampled and sounded in 1968 as part of the Lake Ontario nearshore sediment survey (Rukavina, 1969). Additional sampling was done in 1972 in conjunction with a jetting survey to measure the thickness of unconsolidated sediment. Short cores of unconsolidated sediment were collected in 1972 and 1974.

Surface-sediment samples were collected with a double-Shipek sampler (Sly, 1969) on a 1-km grid in the depth range 2 to 20 m. Sample descriptions were recorded upon collection and later coded for storage in a computer file (DECODE). Sub-samples were analyzed for grain size (Duncan and LaHaie, 1979) and size data were reduced by the computer program SIZDIST (Sandilands and Duncan, 1980). Appendix 2 explains the content and format of the SIZDIST listings.

Echo-sounding profiles were run at a 1-km spacing along the north-south lines of the National Topographic Series UTM grid. Survey sounders were the Kelvin Hughes 26F (30 kHz) and the Ross Surveyor (100 kHz). Sounding fixes were taken at about 250-m intervals.

Samples and sounding fixes were positioned by Decca Minifix or Cubic Autotape positioning systems with an accuracy of better than  $\pm 25$  m.

Hydraulic jetting to refusal (Rukavina and LaHaie, 1977) was used to measure the thickness of unconsolidated sediment. Jetting procedures are described in Appendix 3.

Cores of the upper metre of unconsolidated sediment were collected with a Benthos corer (Sly, 1969) or hydraulic Beachcor 67 (CM2, California). Cores were logged and subsampled for grain-size analysis and pollen analysis. Size analysis followed the procedures noted above; pollen analysis methods are described in MacInnis (1973).

Jet sites and Humber Bay core sites were positioned by a Decca HiFix system and remaining cores by Motorola RPS, both with an accuracy of better than  $\pm 25$  m.

### 3.0 DATA PROVIDED

1. Map of sites of 1968 surface-sediment samples (Appendix 4, under separate cover).
2. Map of 1972 jet and surface-sediment sample sites (Appendix 5, under separate cover).
3. Field descriptions (DECODE listings) of 1968 surface-sediment samples (Appendix 6).
4. Grain-size data (SIZDIST listings) for 1968 and 1972 surface-sediment samples (Appendix 7).
5. Jet data on sediment thickness (Appendix 8).
6. Map of core sites (Appendix 9 under separate cover).
7. Core loss (Appendix 10).
8. Grain-size data (SIZDIST listings) for core samples (Appendix 11).
9. Pollen data (Appendix 12).
10. Echo-sounding traverses (Appendix 13, under separate cover).

### 4.0 REFERENCES CITED

- Duncan, G. A. and LaHaie, G. G., 1979. "Size Analysis Procedures Used in the Sedimentology Laboratory". NWRI Manual, NWRI Unpublished Report, 23 p.
- MacInnis, G. A., 1973. "Report on Palynological Analysis Procedures of Nearshore Cores from Lake Ontario". Unpublished CCIW contract report, Contract No. KL347-3-3258.

- Rukavina, N. A., 1969. "Nearshore Sediment Survey of Western Lake Ontario, Methods and Preliminary Results". Proc. 12th Conf. Great Lakes Res., IAGLR, pp. 317-324.
- Rukavina, N. A. and LaHaie, G. G., 1977. "Measurement of Thickness of Nearshore Sands by Hydraulic Jetting". Hydraulics Division Technical Note 77-13.
- Sandilands, R. G. and Duncan, G. A., 1980. "SIZDIST - A Computer Program for Size Analysis". Hydraulics Division Technical Note 80-08.
- Sly, P. G., 1969. "Bottom Sediment Sampling". Proc. 12th Conf. Great Lakes Research, IAGLR, pp. 883-898.

#### ACKNOWLEDGEMENTS

G. LaHaie was the field officer for the jetting and coring surveys. Pollen analysis was done under contract by G. MacInnis of Bondar-Clegg.





Figure 1. Data coverage.

**APPENDIX 1**



the metropolitan toronto and region conservation authority

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June 4, 1982

Dr. N. A. Rukavina  
Shore Processes Section  
Hydraulics Research Division  
National Water Research Institute  
Canada Centre for Inland Waters  
P.O. Box 5050  
Burlington, Ontario  
L7R 4A6

Dear Dr. Rukavina,

Further to our phone conversation of 3 June 1982, I would like to obtain information on location, substrate description and grain size from sampling stations in the vicinity of Toronto roughly between the following 6° UTM grid lines (Zone 17T).

617000 mE	and	664400 mE
4825800 mN		4855400 mN

Thank you for your cooperation and assistance.

Yours sincerely,

Brian Hindley  
Project Biologist  
Planning and Environmental Section  
Water Resource Division

BH/md

**APPENDIX 2**

SIZDIST Format  
(After Sandilands and Duncan, 1980)

#### 4.0

### PRINTED OUTPUT

The SIZDIST output is available in two forms: printed output and punched cards. The data provided on the printed output are determined by the control card and may include the following:

- 1) Sample label, date of analysis, type of lab analysis, sample weight and the date when program was run.
- 2) A histogram of the particle size distribution by PHI interval, percentage in each interval and cumulative percentages.
- 3) The four moment measures and the size range to which they apply. For example, if sieve analysis is used, the material finer than 4 PHI (0.063 mm) is not resolved and, therefore, is excluded from the moment measure calculations.
- 4) The four graphic statistics. They are not calculated if more than five percent of the size distribution at either the fine or coarse end is not resolved.
- 5) The median and 5th, 16th, 25th, 75th, 84th and 95th percentiles.
- 6) Percentage of gravel, sand, silt, and clay.
- 7) The amount of gravel + sand and the ratios of silt/(silt+clay) and (gravel+sand)/(silt+clay).
- 8) The Ternary labels (Shepard and Folk).

#### 4.1

##### Histogram:

The printed output includes a histogram of particle size distribution using the weight percentages (rounded off to nearest whole number) as class heights. Each asterisk in the class height represents one percent.

In almost all sediment analyses, there is a quantity of fines for which the exact size cannot be resolved because of procedural limitations. In sieving for example, a pan weight can only be defined as finer than the last sieve. Therefore, the histogram shows the last PHI size as being undefined "\*\*\*\*\*".

In long pipette or sedigraph, the coarse end of the distribution may not be resolved. Therefore, the program indicates on the histogram that the boundary of the coarsest fraction is an "assumed upper limit".

The other procedures assume that the analysis will start at a point which will incorporate the coarsest particles. It is possible in some procedures

that the gravel will be sieved off, but not resolved because of insufficient material; in these cases, a comment card should be used to record this information.

#### 4.2 Percentiles:

A percentile is a particle-size value in PHI units, which corresponds to a particular cumulative percentage. The percentiles for 5, 16, 25, 50, 75, 84 and 95 percent of the sample are calculated for use later in Folk's graphic formulae.

The program uses linear interpolation between data points to calculate percentile values and may give slightly different values than Folk's procedure of plotting cumulative curves on probability paper to improve accuracy of extrapolation and interpolation. To guard against invalid extrapolations, the program will not compute percentiles for open-ended portions of the size distributions. If more than five percent of the sample is unresolved, the percentiles affected are blanked out with "\*\*\*\*\*".

#### 4.3 Graphic Statistics:

These statistics apply to the total particle-size distribution, and are computed from percentile values. The graphic statistics are not calculated if any percentiles are blank. In this case, the data can be plotted by hand and the values for the missing percentiles determined by extrapolation.

Folk's (1957) formulae are used to give the following statistics:

$$\text{Graphic Mean} = \frac{\phi 16 + \phi 50 + \phi 84}{3}$$

$$\text{Inclusive Graphic Standard Deviation} = \frac{\phi 84 - \phi 16}{4} + \frac{\phi 95 - \phi 5}{6.6}$$

$$\text{Inclusive Graphic Skewness} = \frac{\phi 16 + \phi 84 - 2(\phi 50)}{2(\phi 84 - \phi 16)} + \frac{\phi 5 + \phi 95 - 2(\phi 50)}{(\phi 95 - \phi 5)}$$

$$\text{Graphic Kurtosis} = \frac{\phi 95 - \phi 5}{2.44 (\phi 75 - \phi 25)}$$

A normal distribution gives a skewness of zero and a kurtosis value of one.

#### 4.4 Moment Measures:

These statistics are calculated only for that portion of the size

distribution that is resolved at the same PHI interval. For example, in the sieve and short pipette procedure, moment measures apply only to the gravel and sand portion of the distribution. Since these statistics usually apply to less than the total samples, they may not be compared with Folk graphic statistics. The moment measures are not calculated if more than five percent of the distribution falls in an undefined size range.

The method of moments (Krumbein and Pettijohn 1938) is used to calculate the PHI mean, standard deviation, skewness and kurtosis. It gives zero skewness and kurtosis values for a normal distribution. The formulae used are:

1) Mean PHI size

$$\bar{X} = \frac{1}{\sum f(X_i)} \sum_{i=1}^K f(X_i) \cdot X_i$$

$f(X_i)$  = frequency (weight percents) of a size class

$X_i$  = class mid-point

$K$  = number of class intervals (number of resolved data points)

2) Standard Deviation

$$S = \sqrt{X_2}$$

3) Measure of Skewness

$$M_3 = \frac{X_3}{2(S)^3}$$

4) Measure of Kurtosis

$$M_4 = \frac{X_4}{S^4} - 3$$

where

$$X_N = \frac{1}{\sum f(X_i)} \sum_{i=1}^K f(X_i) \cdot (X_i - \bar{X})^N$$

for  $N = 2, 3$  and  $4$

#### 4.5 Size Fractions:

Particle size is expressed by the SIZDIST program in a PHI scale devised by Krumbein and Pettijohn (1938) which is a logarithmic transformation of the Wentworth (1922) grade scale;

$$\text{i.e. PHI } (\phi) = -\log_2 (\text{diameter in millimetres})$$

Each size fraction is given as a weight percentage of the total sample. The size range for each size class is:

	<u>PHI</u>	<u>MILLIMETRES</u>
Gravel	< -1.0	> 2.0
Sand	> -1.0 to 4.0	2.0 to 0.0625
Silt	> 4.0 to 8.0	0.0625 to 0.0039
Clay	> 8.0	< 0.0039

The values for percent silt and clay may be determined from sedigraph data and/or pipette draws. Both results are shown, when available, or one may be set to zero when that procedure is not used.

#### 4.6 Classification Labels:

Based on the values and ratios of size fractions, the sediment classification labels of Shepard (1954) and Folk (1968) are presented. If gravel is  $\leq$  five percent, a label from the sand, clay, silt (SCS) triangular graph is also given.



**APPENDIX 3**

**Jetting Procedure  
(After Rukavina and LaHaie, 1977)**

## ABSTRACT

Hydraulic jetting provides a fast and inexpensive method for direct measurement of the thickness of unconsolidated shallow-water sediments of sand size. The equipment is portable and can be operated from a small launch or barge. Sediment thickness can be resolved to 0.25 m and in some instances it is possible to identify the underlying material.

## INTRODUCTION

Conventional acoustic techniques (echo-sounding, sub-bottom profiling) are of limited use in measuring the thickness of Great Lakes' nearshore sand deposits. Higher frequencies give inadequate penetration, lower frequencies inadequate resolution; in both cases noisy records result from the reverberation experienced in shallow water.

As an alternative to the geophysical approach, we have developed a procedure of direct measurement of sediment thickness by hydraulic jetting to refusal. The method was suggested by the previous use of jetting as an aid to sampling unconsolidated sediments by Wilson (1941), Pincus et al (1951) and Coffee (1968). It consists simply of fluidizing bottom sediment with a water jet and recording jet penetration to refusal. We offer it as a simple, inexpensive alternative to, or control procedure for, shallow-water geophysical surveys of sediment thickness.

## EQUIPMENT

Jetting equipment (Figure 1) consists of a jet pipe, reinforced flexible intake and discharge hoses and a high pressure water pump. We use a 7.5 m long pipe made up of 1.5 m sections of aluminum (2", schedule 40) and an end section of steel to provide weight and resistance to abrasion. The working end of the steel pipe is threaded to serve as a sampler of the material in which refusal occurs. Hose is standard 2 inch fire hose or flexible reinforced plastic hose with clamp connectors. Both pipe and hose are calibrated in units of 0.25 m. A short length of flexible hose with a screened end piece serves as the water intake. The water pump is a 6 H.P. gasoline-powered fire pump with a discharge of 60 gpm at 60 psi.

## OPERATION

Jetting is most conveniently carried out from a small catamaran or barge with low freeboard and a large deck area to facilitate handling of the hose. The minimal requirement for the operation in terms of space and stability would be a small Boston Whaler or equivalent.

The jetting platform is manoeuvred onto station and anchored fore and aft to minimize drift. The jet pipe is assembled and coupled to the pump with a hose length at least twice the water depth. The pipe is then lowered by hand (or by winch, if available) into contact with the bottom and the water depth is read from the hose markings (Figure 2). The pump is started and the water jet from the pipe

fluidizes a sediment column into which the pipe is advanced. Penetration continues until the jet encounters bedrock or semi-consolidated glacial sediment and no further progress is possible (Figure 2). Pipe behaviour at this stage is often a clue to the type of underlying material. The pipe tends to bounce on bedrock or boulder bottoms and to stick in glacial till or glaciolacustrine sediment. When refusal occurs, depth of penetration is recorded from the hose markings and the pipe is withdrawn and examined for evidence of underlying material retained in its end threads.

The jetting operation itself generally takes about 10 minutes in water depths of less than 20 m. Total site time including anchoring is about 20 minutes. Maximum penetration achieved to date has been 18 m.

## APPLICATIONS

The jetting procedure was designed specifically for thickness measurement of nearshore lake sands and gravels as an aid to, or substitute for, conventional acoustic techniques. It should apply equally well to measurements in stream or beach deposits or in finer-grained basin or bay sediments. Limiting grain size with the equipment described is about 2-3 cm gravel beyond which pressure is lost because of the high permeability and material cannot be fluidized.

We use jetting in advance of coring to define the geometry of the sediment body being investigated and to provide a basis for optimum siting of cores. Jetting itself should be able to provide a coarse sediment stratigraphy if descent rate is monitored and contacts defined by abrupt changes in the rate of penetration. Further refinement would involve calibration of descent rates with geotechnical information from adjacent cores. There has not yet been a serious effort to explore this potential use.

In instances where point data on thickness are inadequate to the job at hand and geophysical profiling techniques must be employed, jetting can still be of use in calibration of the geophysical records.

**APPENDIX 4**

1968 Sample Sites  
(Map Under Separate Cover)

**APPENDIX 5**

1972 Sample and Jet Sites  
(Map Under Separate Cover)

**APPENDIX 6**

Sample Descriptions  
DECODE Listings

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0314B  
LOCATION: UTM NORTH: 4825178 EAST: 618496  
DEPTH: 7.1 METRES  
TIME: 1715 JULY 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: GREEN SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0315A  
LOCATION: UTM NORTH: 4826147 EAST: 618471  
DEPTH: 8.1 METRES  
TIME: 1730 JULY 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: LIGHT BROWN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 3 CMS

TEXTURE: MUDDY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREYISH BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 95.09 SILT: 3.67 CLAY: 1.25

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-FINE SUSPENSION LEFT 1/2 WAY UP TUBE



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0315B  
LOCATION: UTM NORTH: 4826171 EAST: 618481  
DEPTH: 0.0 METRES  
TIME: 1730 JULY 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 2 CMS

TEXTURE: SILTY SAND  
STRUCTURE:  
COLOUR: GREYISH BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 89.08 SILT: 8.98 CLAY: 1.95

SHEPARD LABEL: SAND

FOLK LABELS: GSM: MUDDY SAND SSC: SILTY SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-SUSPENDED SEDIMENT REMAINS IN SETTLING TUBE AFTER ANALYSIS.  
-0315B IS A SILTY SAND; SIZE DATA AVAILABLE.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0316B  
LOCATION: UTM NORTH: 4826177 EAST: 619475  
DEPTH: 13.7 METRES  
TIME: 1745 JULY 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: SUBROUNDED GREEN SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## COMMENTS:

-0316A IS A VERY SMALL SAMPLE OF BUFF MEDIUM-COARSE SAND MIXED  
WITH BLACK #ORGANIC# MATERIAL

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0317B  
LOCATION: UTM NORTH: 4825107 EAST: 619523  
DEPTH: 18.5 METRES  
TIME: 1800 JULY 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: ANGULAR GREEN SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0318B  
LOCATION: UTM NORTH: 4827255 EAST: 620442  
DEPTH: 3.5 METRES  
TIME: 1045 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: GREY PEBBLES: SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0319B  
LOCATION: UTM NORTH: 4826247 EAST: 620449  
DEPTH: 16.3 METRES  
TIME: 1100 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: NONE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: CLAYEY SILT  
STRUCTURE:  
COLOUR: LIGHT BROWN  
CONSISTENCY: STIFF

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 7.98 SILT: 36.26 CLAY: 55.76

SHEPARD LABEL: SILTY CLAY

FOLK LABELS: GSM: MUD SSC: MUD

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-0319A AND 0319C-SURFACE LAYER OF WOOD CHIPS, SNAIL SHELLS, BLACK ORGANIC MATTER.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0320B  
LOCATION: UTM NORTH: 4825194 EAST: 620470  
DEPTH: 21.5 METRES  
TIME: 1130 JULY 22, 1958

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: ANGULAR  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
TEMPERATURE: PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0321A  
LOCATION: UTM NORTH: 4825241 EAST: 621449  
DEPTH: 25.3 METRES  
TIME: 1130 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: L.T. 5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: SANDY COBBLES, BOULDERS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0322B  
LOCATION: UTM NORTH: 4826284 EAST: 621435  
DEPTH: 24.3 METRES  
TIME: 1200 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0323B  
 LOCATION: UTM NORTH: 4827248 EAST: 621423  
 DEPTH: 10.1 METRES  
 TIME: 1200 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
 SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND	SURFACE/CONTACT:
STRUCTURE:	SMELL:
COLOUR:	PEBBLES: GREY SHALE
CONSISTENCY:	HEAVY MINERALS: CODING ERROR

SEDIMENT BASE: BEDROCK OBSERVED  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0324B  
LOCATION: UTM NORTH: 4828237 EAST: 621393  
DEPTH: 2.5 METRES  
TIME: 1215 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: GREY SHALE  
HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0325A  
LOCATION: UTM NORTH: 4830279 EAST: 622355  
DEPTH: 2.5 METRES  
TIME: 1245 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: CLAYEY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 60.73 SILT: 29.41 CLAY: 9.85

SHEPARD LABEL: SILTY SAND

FOLK LABELS: GSM: MUDDY SAND SSC: SILTY SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0326B  
LOCATION: UTM NORTH: 4829285 EAST: 622366  
DEPTH: 5.3 METRES  
TIME: 1300 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: GREY SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 03278  
LOCATION: UTM NORTH: 4828314 EAST: 622393  
DEPTH: 9.7 METRES  
TIME: 1315 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: RED SHALE  
HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0328A  
 LOCATION: UTM NORTH: 4827238 EAST: 622408  
 DEPTH: 21.3 METRES  
 TIME: 1315 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
 SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: SEE COMMENTS  
 STRUCTURE:  
 COLOUR:  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES: ANGULAR SANDSTONE  
 HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
 TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0329A  
LOCATION: UTM NORTH: 4828316 EAST: 623422  
DEPTH: 19.1 METRES  
TIME: 1330 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0330B  
LOCATION: UTM NORTH: 4829346 EAST: 623372  
DEPTH: 18.7 METRES  
TIME: 1400 JULY 22, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREENISH BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 10 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREYISH BLACK  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 23.92 SILT: 51.92 CLAY: 24.16

SHEPARD LABEL: SAN SIL CLY

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0331B  
LOCATION: UTM NORTH: 4830282 EAST: 623383  
DEPTH: 15.1 METRES  
TIME: 1015 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: DARK GREY  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 3 THICKNESS: CMS

TEXTURE: SANDY MUD  
STRUCTURE:  
COLOUR: BROWNISH GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 11.70 SILT: 62.04 CLAY: 26.26

SHEPARD LABEL: CLAYEY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0332A  
LOCATION: UTM NORTH: 4831307 EAST: 623360  
DEPTH: 7.1 METRES  
TIME: 1030 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: SILTY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY: STIFF

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 14.43 SILT: 67.12 CLAY: 18.44

SHEPARD LABEL: CLAYEY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-SUB-SAMPLES - 2 BOXES, LARGE CORE.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0333A  
LOCATION: UTM NORTH: 4832347 EAST: 624314  
DEPTH: 4.5 METRES  
TIME: 1045 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: GREYISH BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: SILTY CLAY  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT: COHESIVE ROLL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 75.51 SILT: 14.85 CLAY: 9.64

SHEPARD LABEL: SAND

FOLK LABELS: GSM: MUDDY SAND SSC: MUDDY SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0334B  
LOCATION: UTM NORTH: 4831632 EAST: 624280  
DEPTH: 10.7 METRES  
TIME: 1100 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREENISH BROWN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 7 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREENISH BROWN  
CONSISTENCY: STIFF

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 7.87 SILT: 65.44 CLAY: 26.69

SHEPARD LABEL: CLAYEY SILT

FOLK LABELS: GSM: MUD SSC: SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0335A  
LOCATION: UTM NORTH: 4830337 EAST: 624368  
DEPTH: 18.5 METRES  
TIME: 1115 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: SILTY MUD  
STRUCTURE: LAMINATED  
COLOUR: GREYISH GREEN  
CONSISTENCY: SOFT

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 3 THICKNESS: CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREYISH GREEN  
CONSISTENCY: SOFT

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0336B  
LOCATION: UTM NORTH: 4830283 EAST: 625362  
DEPTH: 19.1 METRES  
TIME: 1145 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: MUD  
STRUCTURE: LAMINATED  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 9 CMS

TEXTURE: SANDY MUD  
STRUCTURE:  
COLOUR: GREENISH BROWN  
CONSISTENCY:

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 11.45 SILT: 67.82 CLAY: 20.74

SHEPARD LABEL: CLAYEY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0337A  
 LOCATION: UTM NORTH: 4831381 EAST: 625343  
 DEPTH: 13.1 METRES  
 TIME: 1200 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
 SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MUD  
 STRUCTURE:  
 COLOUR: BROWNISH GREEN  
 CONSISTENCY: SOUPY

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: MUD  
 STRUCTURE: LAMINATED  
 COLOUR: GREENISH BLACK  
 CONSISTENCY: SOUPY

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 7.00 SILT: 72.18 CLAY: 20.81

SHEPARD LABEL: CLAYEY SILT

FOLK LABELS: GSM: MUD SSC: SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0338B  
LOCATION: UTM NORTH: 4832343 EAST: 625289  
DEPTH: 4.5 METRES  
TIME: 1230 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 8 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: GREYISH BROWN PEBBLES: MIXED  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 6.86 SAND: 92.07 SILT: .03 CLAY: 1.04

SHEPARD LABEL: SAND

FOLK LABELS: GSM: GRAVELLY SAND SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0339B  
LOCATION: UTM NORTH: 4831326 EAST: 626353  
DEPTH: 11.5 METRES  
TIME: 1445 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: BROWNISH GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 39.11 SILT: 53.38 CLAY: 7.51

SHEPARD LABEL: SANDY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0340B  
LOCATION: UTM NORTH: 4830287 EAST: 626349  
DEPTH: 19.7 METRES  
TIME: 1500 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 1 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 3 THICKNESS: CMS

TEXTURE: SILT  
STRUCTURE: LAMINATED  
COLOUR: GREY  
CONSISTENCY: STIFF

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 4 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 5.45 SILT: 67.11 CLAY: 27.45

SHEPARD LABEL: CLAYEY SILT

FOLK LABELS: GSM: MUD SSC: SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0341A  
LOCATION: UTM NORTH: 4830363 EAST: 627352  
DEPTH: 18.9 METRES  
TIME: 1515 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREENISH BROWN  
CONSISTENCY: STIFF

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 3 THICKNESS: CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY: STIFF

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

COMMENTS:  
-SIZE DATA AVAILABLE FOR 0341B.

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0342A  
LOCATION: UTM NORTH: 4831234 EAST: 627324  
DEPTH: 10.7 METRES  
TIME: 1530 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 2 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY: SOUPY

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 3 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: .05 SAND: 21.15 SILT: 63.94 CLAY: 14.86

SHEPARD LABEL: SANDY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0343B  
LOCATION: UTM NORTH: 4831374 EAST: 628303  
DEPTH: 9.7 METRES  
TIME: 1600 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 1.50 SAND: 88.93 SILT: 6.70 CLAY: 2.87

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0344A  
LOCATION: UTM NORTH: 4830338 EAST: 628343  
DEPTH: 11.3 METRES  
TIME: 1615 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT: DISTURBED SURFACE  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: SANDY MUD  
STRUCTURE:  
COLOUR: GREYISH GREEN  
CONSISTENCY: STIFF

SURFACE/CONTACT: GRADATIONAL  
SMELL: SEWAGE SMELL  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 10.05 SILT: 73.14 CLAY: 16.81

SHEPARD LABEL: CLAYEY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0345B  
LOCATION: UTM NORTH: 4829419 EAST: 629360  
DEPTH: 15.1 METRES  
TIME: 1630 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 10 CMS

TEXTURE: SANDY MUD  
STRUCTURE:  
COLOUR: GREENISH GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 24.15 SILT: 58.39 CLAY: 17.46

SHEPARD LABEL: SANDY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0346B  
LOCATION: UTM NORTH: 4830349 EAST: 629343  
DEPTH: 5.1 METRES  
TIME: 1645 JULY 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: CLAYEY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SEE COMMENTS SMELL:  
COLOUR: BROWNISH BLACK PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 94.94 SILT: 3.30 CLAY: 1.76

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0347B  
LOCATION: UTM NORTH: 4829413 EAST: 630373  
DEPTH: 3.8 METRES  
TIME: 1115 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: GREEN PEBBLES:  
CONSISTENCY: SOUPY HEAVY MINERALS:

UNIT: 2 THICKNESS: 5 CMS

TEXTURE: FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SEE COMMENTS SMELL:  
COLOUR: BROWNISH BUFF PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: PH:  
TEMPERATURE:

OTHER NOTES: NOTEBOOK SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETT.TUBE + SH.PIP. + SEDIGRAPH  
% GRAV: .15 SAND: 96.42 SILT: 3.43 CLAY: 0.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0348A  
LOCATION: UTM NORTH: 4828511 EAST: 630355  
DEPTH: 54.1 METRES  
TIME: 1130 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREENISH GREY  
CONSISTENCY: SOUPY

SURFACE/CONTACT: DISTURBED SURFACE  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 9.38 SILT: 62.97 CLAY: 27.65

SHEPARD LABEL: CLAYEY SILT

FOLK LABELS: GSM: MUD SSC: SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0349A  
LOCATION: UTM NORTH: 4829491 EAST: 631365  
DEPTH: 6.3 METRES  
TIME: 1200 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWNISH BUFF  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 8 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWNISH BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETT.TUBE + SH.PIP. + SEDIGRAPH

% GRAV: .66 SAND: 96.05 SILT: 3.29 CLAY: 0.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0350B  
LOCATION: UTM NORTH: 4830485 EAST: 632354  
DEPTH: 6.1 METRES  
TIME: 1230 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 5 CMS

TEXTURE: MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES:  
CONSISTENCY: HEAVY MINERALS: ABUNDANT

UNIT: 2 THICKNESS: 3 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 97.99 SILT: .88 CLAY: 1.13

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0351B  
LOCATION: UTM NORTH: 4829486 EAST: 632338  
DEPTH: 7.9 METRES  
TIME: 1300 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 10 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES: SUBROUNDED SEE COMMENTS  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 97.39 SILT: .52 CLAY: 2.09

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0352B  
LOCATION: UTM NORTH: 4830515 EAST: 633342  
DEPTH: 9.9 METRES  
TIME: 1330 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE: SEE COMMENTS  
COLOUR: LIGHT BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 97.41 SILT: .55 CLAY: 2.04

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0353A  
LOCATION: UTM NORTH: 4831481 EAST: 633312  
DEPTH: 6.5 METRES  
TIME: 1345 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 6 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SEE COMMENTS SMELL:  
COLOUR: PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 97.18 SILT: .41 CLAY: 2.41

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-0353B DIFFERS IN TEXTURE; SEE SIZE DATA.  
-NO STATION DEPTH. DEPTH LISTED IS FOR 0353B.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0354A  
LOCATION: UTM NORTH: 4832473 EAST: 634268  
DEPTH: 5.9 METRES  
TIME: 1415 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: SANDY MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS  
STRUCTURE:  
COLOUR: BROWNISH GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED  
HEAVY MINERALS: ABUNDANT

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 92.51 SILT: 4.69 CLAY: 2.80

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0355A  
LOCATION: UTM NORTH: 4831454 EAST: 634307  
DEPTH: 8.7 METRES  
TIME: 1445 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREYISH GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 97.89 SILT: .25 CLAY: 1.87

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0356A  
LOCATION: UTM NORTH: 4830546 EAST: 634313  
DEPTH: 13.1 METRES  
TIME: 1500 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 3 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: BROWNISH GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.88 SILT: .47 CLAY: .65

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0357B  
LOCATION: UTM NORTH: 4830513 EAST: 635306  
DEPTH: 0.0 METRES  
TIME: 1600 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: BROWNISH GREEN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 80.38 SILT: 14.45 CLAY: 5.17

SHEPARD LABEL: SAND

FOLK LABELS: GSM: MUDDY SAND SSC: SILTY SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0358A  
LOCATION: UTM NORTH: 4831488 EAST: 635279  
DEPTH: 13.7 METRES  
TIME: 1615 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 6 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 65.56 SILT: 30.65 CLAY: 3.79

SHEPARD LABEL: SILTY SAND

FOLK LABELS: GSM: MUDDY SAND SSC: SILTY SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0359A  
LOCATION: UTM NORTH: 4832466 EAST: 635269  
DEPTH: 6.1 METRES  
TIME: 1630 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: SEE COMMENTS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL: SEWAGE SMELL  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: SAND  
STRUCTURE:  
COLOUR: GREENISH BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL: SEWAGE SMELL  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 93.24 SILT: 3.30 CLAY: 3.46

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-UNIT 1 CONSISTS OF CINDERS, CONCRETE, PIECES OF BRICK.

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0360B  
LOCATION: UTM NORTH: 4832615 EAST: 636281  
DEPTH: 12.1 METRES  
TIME: 1645 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWNISH GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.91 SILT: .51 CLAY: .58

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 03618  
LOCATION: UTM NORTH: 4831522 EAST: 636311  
DEPTH: 18.3 METRES  
TIME: 1715 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 5 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.77 SILT: .37 CLAY: .86

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 03628  
LOCATION: UTM NORTH: 4832530 EAST: 637261  
DEPTH: 16.7 METRES  
TIME: 1745 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 3 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: GREYISH BROWN PEBBLES: SUBROUNDED  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 97.57 SILT: .43 CLAY: 2.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0363A  
LOCATION: UTM NORTH: 4833580 EAST: 637256  
DEPTH: 11.3 METRES  
TIME: 1830 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 6 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 99.39 SILT: .04 CLAY: .58

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0364A  
LOCATION: UTM NORTH: 4834596 EAST: 637262  
DEPTH: 9.5 METRES  
TIME: 1830 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 3 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREYISH BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 95.41 SILT: 2.96 CLAY: 1.63

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0365A  
LOCATION: UTM NORTH: 4835585 EAST: 637258  
DEPTH: 5.5 METRES  
TIME: 1845 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: GREEN PEBBLES:  
CONSISTENCY: SOUPY HEAVY MINERALS:

UNIT: 2 THICKNESS: 2 CMS

TEXTURE: FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

UNIT: 3 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: LIGHT BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: PH:  
TEMPERATURE:

OTHER NOTES: NOTEBOOK SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE  
% GRAV: 0.00 SAND: 91.88 SILT: 5.74 CLAY: 2.38  
SHEPARD LABEL: SAND  
FOLK LABELS: GSM: SAND SSC: SAND  
SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

COMMENTS:  
A VERY FINE SUSPENSION LEFT IN 3/4 OF TUBE

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0366A  
LOCATION: UTM NORTH: 4834536 EAST: 636251  
DEPTH: 6.5 METRES  
TIME: 1900 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREENISH BLACK  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: LIGHT BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 92.61 SILT: 5.70 CLAY: 1.70

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 03678  
LOCATION: UTM NORTH: 4833550 EAST: 636270  
DEPTH: 9.1 METRES  
TIME: 1930 JULY 25, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: DECCA MINIFIX  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREENISH BLACK  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 7 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWNISH GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.31 SILT: .95 CLAY: .74

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-VERY FINE SUSPENSION LEFT IN SETTLING TUBE FOLLOWING ANALYSIS.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0368B  
LOCATION: UTM NORTH: 4835562 EAST: 638374  
DEPTH: 8.4 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: ROUNDED  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: PEBBLY SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED MIXED  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0369A  
LOCATION: UTM NORTH: 4834652 EAST: 638283  
DEPTH: 13.2 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 10 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT: FLAT SURFACE  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: .12 SAND: 98.82 SILT: .44 CLAY: .62

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-NO STATION DEPTH. DEPTH LISTED IS FOR 0369B.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0370A  
LOCATION: UTM NORTH: 4833610 EAST: 638393  
DEPTH: 15.2 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 10 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT: INCLINED SURFACE  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS: ABUNDANT

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 7.81 SAND: 91.43 SILT: .17 CLAY: .59

SHEPARD LABEL: SAND

FOLK LABELS: GSM: GRAVELLY SAND SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0371B  
LOCATION: UTM NORTH: 4832620 EAST: 638397  
DEPTH: 20.2 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: BOX + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT: FLAT SURFACE  
SMELL:  
PEBBLES:  
HEAVY MINERALS: ABUNDANT

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.56 SILT: .34 CLAY: 1.10

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: Q372A  
LOCATION: UTM NORTH: A833632 EAST: 639410  
DEPTH: 27.8 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT: FLAT SURFACE  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: SHIELD  
CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: GRAVEL SURFACE/CONTACT: GRADATIONAL  
STRUCTURE: SMELL:  
COLOUR: PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE ONLY

% GRAV: 25.38 SAND: 74.56 SILT: .05 CLAY: 0.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: GRAVELLY SAND SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

COMMENTS:

-ONE PHI DATA COARSER THAN 0 PHI SUBDIVIDED TO GIVE HALF-PHI VALUES.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 03738  
LOCATION: UTM NORTH: 4834673 EAST: 639279  
DEPTH: 24.2 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: GRAVEL  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED MIXED  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 99.42 SILT: .15 CLAY: .43

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0374B  
LOCATION: UTM NORTH: 4835684 EAST: 639233  
DEPTH: 12.6 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY COBBLES, BOULDERS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BLACK PEBBLES: ROUNDED MIXED  
CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: MUDDY SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

UNIT: 3 THICKNESS: CMS

TEXTURE: SANDY CLAY SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: GREY PEBBLES:  
CONSISTENCY: STIFF HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0375A  
LOCATION: UTM NORTH: 4836715 EAST: 639165  
DEPTH: 5.6 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: CLAYEY SEE COMMENTS  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## COMMENTS:

-SAMPLE CONSISTS MAINLY OF FECAL MATERIAL WITH A SMALL AMOUNT OF BUFF FINE SAND AND TWO FRAGMENTS OF STICKY GREY CLAY.

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0376B  
LOCATION: UTM NORTH: 4837757 EAST: 640064  
DEPTH: 5.2 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL: SEWAGE SMELL  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 4 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWNISH GREY  
CONSISTENCY:

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.82 SILT: .42 CLAY: .76

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0377B  
LOCATION: UTM NORTH: 4836707 EAST: 640175  
DEPTH: 10.8 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: WELL ROUNDED  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE: SEE COMMENTS  
COLOUR: GREYISH BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 3.18 SAND: 95.87 SILT: .30 CLAY: .64

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0378A  
LOCATION: UTM NORTH: 4835725 EAST: 640208  
DEPTH: 16.0 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 7 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: MIXED  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE ONLY

% GRAV: 67.76 SAND: 32.20 SILT: .04 CLAY: 0.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SANDY GRAVEL SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-ONE PHI DATA COARSER THAN 0 PHI SUBDIVIDED IN HALF-PHI CLASSES.



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0379B  
LOCATION: UTM NORTH: 4834714 EAST: 640241  
DEPTH: 17.4 METRES  
TIME: AUGUST 14, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: GREYISH BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND SURFACE/CONTACT: GRADATIONAL  
STRUCTURE: SMELL:  
COLOUR: GREYISH BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: PH:  
TEMPERATURE:

OTHER NOTES: NONE SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 23.63 SAND: 74.84 SILT: .87 CLAY: .66

SHEPARD LABEL: SAND

FOLK LABELS: GSM: GRAVELLY SAND SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0380B  
LOCATION: UTM NORTH: 4834733 EAST: 641242  
DEPTH: 21.2 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 7 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWNISH GREY PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: PH:  
TEMPERATURE:

OTHER NOTES: NOTEBOOK SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE ONLY  
% GRAV: 30.16 SAND: 69.75 SILT: .09 CLAY: 0.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SANDY GRAVEL SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

COMMENTS:  
-SIZE DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES.

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0381B  
 LOCATION: UTM NORTH: 4835723 EAST: 641194  
 DEPTH: 16.8 METRES  
 TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: GRAVEL SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: PEBBLES:  
 CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT: GRADATIONAL  
 STRUCTURE: SMELL:  
 COLOUR: PEBBLES:  
 CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0382A  
LOCATION: UTM NORTH: 4836711 EAST: 641171  
DEPTH: 15.4 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: GRAVEL  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE ONLY

% GRAV: 40.71 SAND: 59.26 SILT: .03 CLAY: 0.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SANDY GRAVEL SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-SIZE DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES.  
-NO STATION DEPTH. DEPTH LISTED IS FOR 0382B.

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0383A  
 LOCATION: UTM NORTH: 4837722 EAST: 641139  
 DEPTH: 12.0 METRES  
 TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: PEBBLES:  
 CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: SEE COMMENTS SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: PEBBLES:  
 CONSISTENCY: SOUPY HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

COMMENTS:  
 -SIZE DATA AVAILABLE FOR 0383B.  
 -NO STATION DEPTH. DEPTH LISTED IS FOR 0383B.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0384B  
LOCATION: UTM NORTH: 4838760 EAST: 641082  
DEPTH: 7.2 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: GRAVEL  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 9 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE ONLY

% GRAV: 69.60 SAND: 30.34 SILT: .06 CLAY: 0.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SANDY GRAVEL SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-SIZE DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0385A  
LOCATION: UTM NORTH: 4838753 EAST: 642107  
DEPTH: 11.2 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 7 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE ONLY

% GRAV: 42.25 SAND: 57.71 SILT: .04 CLAY: 0.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SANDY GRAVEL SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-SIZE DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0386A  
LOCATION: UTM NORTH: 4839782 EAST: 642065  
DEPTH: 8.4 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 10 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES:  
CONSISTENCY: HEAVY MINERALS: ABUNDANT

UNIT: 2 THICKNESS: < .5 CMS

TEXTURE: CLAY SURFACE/CONTACT: SEE COMMENTS  
STRUCTURE: SMELL:  
COLOUR: GREY PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 99.43 SILT: .10 CLAY: .46

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0387B  
LOCATION: UTM NORTH: 4837743 EAST: 642141  
DEPTH: 15.0 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 7 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: WELL ROUNDED  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

COMMENTS:  
-SIZE DATA AVAILABLE FOR 0387A.

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0388A  
 LOCATION: UTM NORTH: 4836741 EAST: 642129  
 DEPTH: 16.6 METRES  
 TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: PEBBLES: WELL ROUNDED  
 CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND SURFACE/CONTACT: GRADATIONAL  
 STRUCTURE: SMELL:  
 COLOUR: PEBBLES:  
 CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0389B  
LOCATION: UTM NORTH: 4835746 EAST: 642190  
DEPTH: 22.0 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 10 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT: GRADATIONAL  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 13.84 SAND: 85.12 SILT: .32 CLAY: .72

SHEPARD LABEL: SAND

FOLK LABELS: GSM: GRAVELLY SAND SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-SIZE DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0390A  
LOCATION: UTM NORTH: 4837734 EAST: 643120  
DEPTH: 17.2 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 7 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE ONLY

% GRAV: 77.78 SAND: 22.20 SILT: .01 CLAY: 0.00

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SANDY GRAVEL SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-SIZE DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0391A  
LOCATION: UTM NORTH: 4838755 EAST: 643112  
DEPTH: 16.0 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 2 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: < .5 CMS

TEXTURE: CLAY  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT: SEE COMMENTS  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 15.87 SAND: 83.16 SILT: .32 CLAY: .65

SHEPARD LABEL: SAND

FOLK LABELS: GSM: GRAVELLY SAND SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0392A  
LOCATION: UTM NORTH: 4839754 EAST: 643110  
DEPTH: 11.2 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 22.43 SILT: 60.23 CLAY: 17.34

SHEPARD LABEL: SANDY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0393B  
LOCATION: UTM NORTH: 4840762 EAST: 643105  
DEPTH: 0.0 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 1 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 3 THICKNESS: 4 CMS

TEXTURE: SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 95.90 SILT: 3.02 CLAY: 1.07

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0394A  
LOCATION: UTM NORTH: 4841560 EAST: 643297  
DEPTH: 0.0 METRES  
TIME: AUGUST 16, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TWO BOXES

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 3 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE: SEE COMMENTS  
COLOUR: BROWNISH GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 97.27 SILT: .23 CLAY: 2.50

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZOIST OUTPUT FOR DETAILED SIZE STATISTICS



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0395B  
LOCATION: UTM NORTH: 4841548 EAST: 644233  
DEPTH: 11.6 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 3 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: BROWNISH GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 99.25 SILT: .10 CLAY: .65

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0396B  
LOCATION: UTM NORTH: 4840680 EAST: 644133  
DEPTH: 14.6 METRES  
TIME: AUGUST 16, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 4 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREYISH BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: WELL ROUNDED  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 98.39 SILT: .75 CLAY: .86

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0397A  
LOCATION: UTM NORTH: 4839715 EAST: 644094  
DEPTH: 16.6 METRES  
TIME: AUGUST 15, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 3 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: SUBANGULAR  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 99.43 SILT: .25 CLAY: .33

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0398A  
LOCATION: UTM NORTH: 4838724 EAST: 644150  
DEPTH: 20.0 METRES  
TIME: AUGUST 16, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 2.21 SAND: 97.00 SILT: .10 CLAY: .70

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0399A  
LOCATION: UTM NORTH: 4839745 EAST: 645104  
DEPTH: 18.6 METRES  
TIME: AUGUST 16, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 3 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES: WELL ROUNDED  
CONSISTENCY: HEAVY MINERALS: ABUNDANT

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 99.53 SILT: .18 CLAY: .29

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0400B  
LOCATION: UTM NORTH: 4840738 EAST: 645084  
DEPTH: 16.4 METRES  
TIME: AUGUST 16, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 7.02 SAND: 92.23 SILT: .06 CLAY: .70

SHEPARD LABEL: SAND

FOLK LABELS: GSM: GRAVELLY SAND SSC:

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0401A  
LOCATION: UTM NORTH: 4841692 EAST: 645111  
DEPTH: 13.6 METRES  
TIME: AUGUST 16, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: SHELLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWNISH GREY PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0402A  
LOCATION: UTM NORTH: 4842539 EAST: 645249  
DEPTH: 8.2 METRES  
TIME: AUGUST 16, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0403A  
LOCATION: UTM NORTH: 4843919 EAST: 644890  
DEPTH: 2.6 METRES  
TIME: AUGUST 16, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: CLAYEY SAND  
STRUCTURE:  
COLOUR: REDDISH GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 66.35 SILT: 14.14 CLAY: 19.51

SHEPARD LABEL: CLAYEY SAND

FOLK LABELS: GSM: MUDDY SAND SSC: MUDDY SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

-FINE SUSPENSION REMAINS IN SETTLING TUBE AFTER SIZE ANALYSIS.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0404B  
LOCATION: UTM NORTH: 4844983 EAST: 645829  
DEPTH: 2.8 METRES  
TIME: AUGUST 16, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREEN  
CONSISTENCY: SOUPY

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 3 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 82.19 SILT: 14.29 CLAY: 3.52

SHEPARD LABEL: SAND

FOLK LABELS: GSM: MUDDY SAND SSC: SILTY SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0405A  
 LOCATION: UTM NORTH: 4843424 EAST: 646415  
 DEPTH: 10.6 METRES  
 TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: BUFF PEBBLES: ROUNDED CARBONATE  
 CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0406A  
 LOCATION: UTM NORTH: 4842688 EAST: 646155  
 DEPTH: 14.4 METRES  
 TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: SANDY COBBLES, BOULDERS SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: BUFF PEBBLES: WELL ROUNDED SEE COMMENTS  
 CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0407A  
LOCATION: UTM NORTH: 4841731 EAST: 646116  
DEPTH: 17.6 METRES  
TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS: ABUNDANT

UNIT: 2 THICKNESS: CMS

TEXTURE: CLAY  
STRUCTURE: VARVED  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

COMMENTS:  
-SIZE DATA AVAILABLE FOR 0407B.

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0408B  
LOCATION: UTM NORTH: 4840749 EAST: 646108  
DEPTH: 20.6 METRES  
TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: SUBROUNDED MIXED  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0409B  
LOCATION: UTM NORTH: 4841791 EAST: 647070  
DEPTH: 22.6 METRES  
TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED BLACK SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0410B  
 LOCATION: UTM NORTH: 4842735 EAST: 647099  
 DEPTH: 17.4 METRES  
 TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: BUFF PEBBLES: SUBROUNDED MIXED  
 CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0411B  
LOCATION: UTM NORTH: 4843695 EAST: 647130  
DEPTH: 11.8 METRES  
TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: SUBROUNDED GREEN SILTSTONE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0412A  
LOCATION: UTM NORTH: 4844559 EAST: 647251  
DEPTH: 12.6 METRES  
TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: LIGHT BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: PEBBLY MUD  
STRUCTURE:  
COLOUR: GREYISH BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: GREY SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0413B  
LOCATION: UTM NORTH: 4845872 EAST: 646909  
DEPTH: .9 METRES  
TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 7 CMS

TEXTURE: SILTY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0414B  
LOCATION: UTM NORTH: 4844686 EAST: 648842  
DEPTH: 5.4 METRES  
TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: NONE

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE:  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

COMMENTS:

-NO SAMPLE. FIELD DESCRIPTION LOST AT END OF TAPE.

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0415B  
 LOCATION: UTM NORTH: 4844780 EAST: 648042  
 DEPTH: 14.2 METRES  
 TIME: AUGUST 20, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND  
 STRUCTURE:  
 COLOUR: BUFF  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS: ABUNDANT

UNIT: 2 THICKNESS: CMS

TEXTURE: SANDY CLAY  
 STRUCTURE:  
 COLOUR:  
 CONSISTENCY: SOFT

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES: BLACK MIXED  
 HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0416A  
LOCATION: UTM NORTH: 4843807 EAST: 647974  
DEPTH: 14.6 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: SUBROUNDED SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0417B  
LOCATION: UTM NORTH: 4842823 EAST: 647942  
DEPTH: 20.2 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS: ABUNDANT

UNIT: 2 THICKNESS: < .5 CMS

TEXTURE: GRAVEL  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0418B  
LOCATION: UTM NORTH: 4843833 EAST: 648940  
DEPTH: 20.4 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED GREEN SHALE  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: GRAVEL  
STRUCTURE:  
COLOUR: GREENISH BLACK  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 97.74 SILT: .80 CLAY: 1.46

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0419A  
LOCATION: UTM NORTH: 4844836 EAST: 648900  
DEPTH: 16.8 METRES  
TIME: AUGUST 23, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 7 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: ANGULAR  
CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: < .5 CMS

TEXTURE: SEE COMMENTS SURFACE/CONTACT: IRREGULAR  
STRUCTURE: SMELL:  
COLOUR: GREY PEBBLES:  
CONSISTENCY: SOUPY HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0420B  
LOCATION: UTM NORTH: 4846717 EAST: 649434  
DEPTH: 7.4 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: PUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: SILTY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: < .5 CMS

TEXTURE: CLAY SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: GREYISH BROWN PEBBLES:  
CONSISTENCY: FIRM HEAVY MINERALS:

SEDIMENT BASE: GLACIAL SEDIMENT INFERRED, FRAGMENTS  
TEMPERATURE: PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0421A  
LOCATION: UTM NORTH: 4850944 EAST: 652742  
DEPTH: 6.6 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR: BROWNISH BLACK  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED BROWN CARBONATE  
HEAVY MINERALS:

UNIT: 2 THICKNESS: < .5 CMS

TEXTURE: MUDDY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: ROUNDED BLACK SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0422B  
LOCATION: UTM NORTH: 4850095 EAST: 652669  
DEPTH: 10.2 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: BLACK SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0423B  
LOCATION: UTM NORTH: 4848768 EAST: 652925  
DEPTH: 15.2 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: SUBROUNDED BLACK SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0424B  
LOCATION: UTM NORTH: 4847859 EAST: 652876  
DEPTH: 21.4 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: SUBANGULAR MIXED  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0425A  
LOCATION: UTM NORTH: 4847818 EAST: 651904  
DEPTH: 17.0 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: < .5 CMS

TEXTURE: PEBBLY CLAY  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY: FIRM

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE: GLACIAL SEDIMENT INFERRED, FRAGMENTS  
TEMPERATURE: PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## COMMENTS:

-NO STATION DEPTH. DEPTH LISTED IS FOR 0425B.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0426A  
LOCATION: UTM NORTH: 4848638 EAST: 652004  
DEPTH: 13.0 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: SILTY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0427B  
LOCATION: UTM NORTH: 4850008 EAST: 651689  
DEPTH: 5.2 METRES  
TIME: AUGUST 21, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED BLACK SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0428B  
LOCATION: UTM NORTH: 4846861 EAST: 649877  
DEPTH: 0.0 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SEE COMMENTS SUB-SAMPLES: NONE

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE: GLACIAL SEDIMENT OBSERVED  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: YES, SEE COMMENTS  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0429  
LOCATION: UTM NORTH: 4845841 EAST: 649916  
DEPTH: 15.8 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SEE COMMENTS SUB-SAMPLES: NONE

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: YES, SEE COMMENTS  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0430  
LOCATION: UTM NORTH: 4844849 EAST: 649919  
DEPTH: 21.0 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SEE COMMENTS SUB-SAMPLES: NONE

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: ANGULAR BLACK SHALE  
HEAVY MINERALS:

SEDIMENT BASE: BEDROCK OBSERVED  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: YES, SEE COMMENTS  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0431A  
LOCATION: UTM NORTH: 4845849 EAST: 650938  
DEPTH: 19.2 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: SUBANGULAR MIXED  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0432A  
LOCATION: UTM NORTH: 4846850 EAST: 650887  
DEPTH: 16.0 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: LIGHT BROWN  
CONSISTENCY: SOUPY

SURFACE/CONTACT: INCLINED SURFACE  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 1 CMS

TEXTURE: SANDY MUD  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 3 THICKNESS: 7 CMS

TEXTURE:  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 34.48 SILT: 47.29 CLAY: 18.22

SHEPARD LABEL: SANDY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0433B  
LOCATION: UTM NORTH: 4847716 EAST: 650953  
DEPTH: 11.0 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 2 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES: SUBROUNDED MIXED  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 99.36 SILT: .33 CLAY: .31

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0434  
LOCATION: UTM NORTH: 4848976 EAST: 650723  
DEPTH: 1.8 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED CARBONATE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 95.12 SILT: 4.03 CLAY: .86

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0435B  
LOCATION: UTM NORTH: 4851987 EAST: 653716  
DEPTH: 7.7 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: SILTY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND SURFACE/CONTACT: GRADATIONAL  
STRUCTURE: SMELL:  
COLOUR: PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: PH:  
TEMPERATURE:

OTHER NOTES: NONE SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE  
% GRAV: 0.00 SAND: 94.52 SILT: 3.65 CLAY: 1.83

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0436A  
LOCATION: UTM NORTH: 4851050 EAST: 653695  
DEPTH: 13.4 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: LIGHT BROWN  
CONSISTENCY: SOFT

SURFACE/CONTACT: INCLINED SURFACE  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 9 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: GREYISH BROWN  
CONSISTENCY: SOFT

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 20.34 SILT: 64.83 CLAY: 14.83

SHEPARD LABEL: SANDY SILT

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0437A  
LOCATION: UTM NORTH: 4849820 EAST: 653897  
DEPTH: 18.6 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: SILTY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES:  
CONSISTENCY: PACKED (SAND) HEAVY MINERALS:

UNIT: 2 THICKNESS: 4 CMS

TEXTURE: FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: GREYISH BROWN PEBBLES:  
CONSISTENCY: PACKED (SAND) HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 87.26 SILT: 7.78 CLAY: 4.95

SHEPARD LABEL: SAND

FOLK LABELS: GSM: MUDDY SAND SSC: MUDDY SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0438A  
LOCATION: UTM NORTH: 4849930 EAST: 654856  
DEPTH: 20.4 METRES  
TIME: AUGUST 27, 1958

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 3 CMS

TEXTURE: SILTY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 94.53 SILT: 2.63 CLAY: 2.83

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0439B  
LOCATION: UTM NORTH: 4850792 EAST: 654914  
DEPTH: 11.8 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY CLAY  
STRUCTURE:  
COLOUR: GREYISH BROWN  
CONSISTENCY: STIFF

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE: GLACIAL SEDIMENT INFERRED, FRAGMENTS  
TEMPERATURE: PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0440B  
LOCATION: UTM NORTH: 4852043 EAST: 654715  
DEPTH: 5.4 METRES  
TIME: AUGUST 27, 1968

SCIENTIST: RUKAVINA  
SOUNDER: TWO FREQUENCIES  
SAMPLER: SHIPEK

LAUNCH/SHIP: GOSLING  
POSITIONING: CUBIC AUTOTAPE  
SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: MIXED  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0441A  
LOCATION: UTM NORTH: 4851791 EAST: 655906  
DEPTH: .9 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY: LOOSE (SAND)

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS: ABUNDANT

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 99.01 SILT: .01 CLAY: .98

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

PARTIAL LOSS OF SAMPLE INFORMATION ON TAPE.  
REMAINING SAMPLE - 82GM (AIR-DRIED), LARGE (156GM) AND SMALL (86GM) TUBE  
CORES (AIR-DRIED).

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0442B  
LOCATION: UTM NORTH: 4850989 EAST: 655788  
DEPTH: 9.6 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUDDY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: SUBROUNDED CARBONATE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

COMMENTS:  
PARTIAL LOSS OF SAMPLE INFORMATION ON TAPE.  
BIOLOGY- ALGAE, CLAM SHELLS, SHELL FRAGMENTS.  
REMAINING SAMPLE- 24GM(AIR-DRIED), 0442A- 13GM(AIR-DRIED).



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0443A  
LOCATION: UTM NORTH: 4850003 EAST: 655799  
DEPTH: 19.4 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: BOX

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY: LOOSE (SAND)

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SEE COMMENTS  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.69 SILT: .24 CLAY: 1.06

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

PARTIAL LOSS OF SAMPLE INFORMATION ON TAPE.  
PEBBLES- SMALL SUBROUNDED BROWN SHALE PEBBLES AND SHIELD GRANULES.  
REMAINING SAMPLE- 124GM (AIR-DRIED).

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0444A  
LOCATION: UTM NORTH: 4850037 EAST: 656803  
DEPTH: 17.8 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY: LOOSE (SAND)

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SEE COMMENTS  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## COMMENTS:

PEBBLES- GRANULES OF SUBROUNDED SHALE OR LIMESTONE.  
BIOLOGY- ALGAE, 4448- CLAM SHELLS.  
REMAINING SAMPLES- 11GM(AIR-DRIED), 4448- 86GM(AIR-DRIED).

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0445A  
LOCATION: UTM NORTH: 4851033 EAST: 656767  
DEPTH: 10.6 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## COMMENTS:

SAMPLE CONSISTS OF A SMALL QUANTITY OF SAND IN CLEAR WATER.  
445B DIFFERS IN CONSISTING MAINLY OF ANGULAR GREY SHALE FRAGMENTS.  
BEDROCK IS INFERRED FROM ROCK CHIPS RECOVERED IN 445B.  
REMAINING SAMPLE - 3GM(AIR-DRIED), 445B - 27GM(AIR-DRIED).

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0446A  
LOCATION: UTM NORTH: 4852061 EAST: 656728  
DEPTH: 3.3 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: SANDY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES: BLACK  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## COMMENTS:

BIOLOGY- SHRIMP, SNAILS, SHELL FRAGMENTS, ALGAE.  
REMAINING SAMPLE- NONE.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0447A  
 LOCATION: UTM NORTH: 4852059 EAST: 657708  
 DEPTH: 11.8 METRES  
 TIME: AUGUST 28, 1958

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 8 - 10 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
 STRUCTURE:  
 COLOUR: BROWN  
 CONSISTENCY: SOUPY

SURFACE/CONTACT: INCLINED SURFACE  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS:

UNIT: 2 THICKNESS: 2 CMS

TEXTURE: SAND  
 STRUCTURE:  
 COLOUR: BLACK  
 CONSISTENCY: MEDIUM FIRM

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS:

UNIT: 3 THICKNESS: 3 CMS

TEXTURE: CLAYEY FINE-MEDIUM SAND  
 STRUCTURE:  
 COLOUR:  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS:

UNIT: 4 THICKNESS: 5 CMS

TEXTURE: SEE COMMENTS  
 STRUCTURE:  
 COLOUR:  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 48.06 SILT: 39.59 CLAY: 12.35

SHEPARD LABEL: SILTY SAND

FOLK LABELS: GSM: SANDY MUD SSC: SANDY SILT

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

UNIT 2- HIGH ORGANIC CONTENT.

UNIT 4- FIBROUS ORGANIC SEDIMENT.

BIOLOGY- UNIT 4- RED WORMS.

REMAINING SAMPLE- 95GM (AIR-DRIED), LARGE (155GM) AND SMALL (71GM) TUBE  
 CORES (AIR-DRIED).

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0448A  
 LOCATION: UTM NORTH: 4851041 EAST: 657732  
 DEPTH: 15.8 METRES  
 TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUDDY SAND  
 STRUCTURE:  
 COLOUR: BROWN  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

COMMENTS:

BIOLOGY- ALGAE, MANY CLAM SHELLS AND SHELL FRAGMENTS.  
 REMAINING SAMPLE- 13GM(AIR-DRIED).

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0449B  
 LOCATION: UTM NORTH: 4850013 EAST: 657760  
 DEPTH: 22.6 METRES  
 TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 5 CMS

TEXTURE: PEBBLY SAND  
 STRUCTURE:  
 COLOUR: BUFF  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES: SUBROUNDED BROWN SHALE  
 HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: MUD  
 STRUCTURE:  
 COLOUR: BROWN  
 CONSISTENCY: STIFF

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS:

SEDIMENT BASE: GLACIAL SEDIMENT INFERRED, FRAGMENTS  
 TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 97.70 SILT: .47 CLAY: 1.83

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

SUBSAMPLES - WEDGE SAMPLE AND LARGE TUBE CORE.  
 UNIT 2 - FRAGMENTS OF STIFF TILL-LIKE SEDIMENT.  
 449C CONTAINS SUBROUNDED SHIELD COBBLE, GRANULES OF BROWN-BLACK  
 LIMESTONE OR SHALE.  
 BIOLOGY - CLAM SHELLS.  
 REMAINING SAMPLE - 93GM(AIR-DRIED), LARGE(83GM) TUBE CORE(AIR-DRIED),  
 449A - 26GM(AIR-DRIED), 449C - 73GM(AIR-DRIED), LABELLED COBBLE.

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0450B  
LOCATION: UTM NORTH: 4850075 EAST: 658769  
DEPTH: 22.8 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 3 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES: ANGULAR BLACK SHALE  
CONSISTENCY: LOOSE (SAND) HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 98.68 SILT: .46 CLAY: .86

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

COMMENTS:  
SIZE ANALYSIS DOES NOT INCLUDE PEBBLE FRACTION.  
REMAINING SAMPLE - 186GM (AIR-DRIED), 62GM G.T. 2MM (AIR-DRIED),  
80GM L.T. 2MM (AIR-DRIED).



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0451A  
LOCATION: UTM NORTH: 4851069 EAST: 658750  
DEPTH: 4.2 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE: GLACIAL SEDIMENT INFERRED, SEE NOTES  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## COMMENTS:

GLACIAL SEDIMENT INFERRED FROM PRESENCE OF COBBLES(LAG).  
451B- PEBBLY SAND WITH SUBROUNDED BROWN SHALE PEBBLES AND SHIELD  
GRANULES.  
BIOLOGY- BROWN ALGAE, 451B- CLAM SHELLS, CLAMS, SHELL FRAGMENTS,  
CHIRONOMID.  
REMAINING SAMPLE- LABELLED COBBLE, 451B- 21GM(AIR-DRIED).

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0452A  
LOCATION: UTM NORTH: 4852072 EAST: 658715  
DEPTH: 11.2 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUDDY SAND  
STRUCTURE:  
COLOUR: GREYISH BROWN  
CONSISTENCY: FIRM

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED BLACK SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

COMMENTS:  
BIOLOGY- ALGAE, CLAM SHELLS, SHELL FRAGMENTS, ORGANIC DEBRIS, 452B- RED  
WORMS.  
REMAINING SAMPLE- 6GM(AIR-DRIED).

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0453A  
LOCATION: UTM NORTH: 4853001 EAST: 658708  
DEPTH: 1.2 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWNISH BLACK  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE: GLACIAL SEDIMENT INFERRED, SEE NOTES  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 97.24 SILT: 2.19 CLAY: .57

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

BOTTOM VISIBLE - SAND WITH BOULDERS.  
GLACIAL SEDIMENT INFERRED FROM PRESENCE OF BOULDERS (LAG).  
REMAINING SAMPLE - 130 GM (AIR-DRIED).

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 04548  
 LOCATION: UTM NORTH: 4853084 EAST: 659676  
 DEPTH: 4.9 METRES  
 TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUDDY MEDIUM-COARSE SAND SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: PEBBLES: SEE COMMENTS  
 CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: PH:  
 TEMPERATURE:

OTHER NOTES: NOTEBOOK SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

COMMENTS:  
 PEBBLES- GRANULES OF LIMESTONE, SHIELD ROCKS, COAL, GLASS, DEBRIS.  
 BIOLOGY- ALGAE, SNAIL AND CLAM SHELLS.  
 REMAINING SAMPLE- 17GM (AIR-DRIED).

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0455A  
 LOCATION: UTM NORTH: 4852093 EAST: 659689  
 DEPTH: 13.8 METRES  
 TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: BROWN PEBBLES: MIXED  
 CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: PH:  
 TEMPERATURE:

OTHER NOTES: NOTEBOOK SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

COMMENTS:  
 PEBBLES- ANGULAR TO SUBANGULAR BLACK SHALE AND SHIELD ROCKS.  
 BIOLOGY- BROWN-GREEN ALGAE, CLAM SHELLS, SHELL FRAGMENTS.  
 REMAINING SAMPLE - 15GM(AIR-DRIED), 455B- 30GM(AIR-DRIED).

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0456A  
LOCATION: UTM NORTH: 4851085 EAST: 659721  
DEPTH: 21.0 METRES  
TIME: AUGUST 28, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED BROWN SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 98.71 SILT: .12 CLAY: 1.16

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

BIOLOGY- CLAM SHELLS, MANY SHELL FRAGMENTS.  
REMAINING SAMPLE- 46GM(AIR-DRIED), 456B- 80GM(AIR-DRIED).

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 04570  
LOCATION: UTM NORTH: 4853270 EAST: 660717  
DEPTH: 8.4 METRES  
TIME: AUGUST 29, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

COMMENTS:  
REMAINING SAMPLE- NONE.

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0458A  
 LOCATION: UTM NORTH: 4852176 EAST: 660775  
 DEPTH: 21.6 METRES  
 TIME: AUGUST 29, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: SAND  
 STRUCTURE:  
 COLOUR:  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES:  
 HEAVY MINERALS:

UNIT: 2 THICKNESS: 3 CMS

TEXTURE: SHELLY MEDIUM-COARSE SANDS  
 STRUCTURE: SURFACE/CONTACT:  
 COLOUR: DARK BROWN SMELL:  
 CONSISTENCY: PACKED (SAND) PEBBLES:  
 HEAVY MINERALS:

UNIT: 3 THICKNESS: 1 CMS

TEXTURE: MUDDY MEDIUM-COARSE SANDS  
 STRUCTURE: SURFACE/CONTACT:  
 COLOUR: GREY SMELL:  
 CONSISTENCY: PEBBLES:  
 HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 92.95 SILT: 4.47 CLAY: 2.57

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## COMMENTS:

REMAINING SAMPLE - 89GM (AIR-DRIED), LARGE (123GM) AND SMALL (72GM) TUBE  
 CORES (AIR-DRIED).



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0459A  
LOCATION: UTM NORTH: 4852233 EAST: 661742  
DEPTH: 21.2 METRES  
TIME: AUGUST 29, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: BLACK SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 3.04 SAND: 95.80 SILT: .04 CLAY: 1.12

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0460A  
LOCATION: UTM NORTH: 4853309 EAST: 661689  
DEPTH: 9.0 METRES  
TIME: AUGUST 29, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: SANDY GRAVEL  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED CARBONATE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 04618  
LOCATION: UTM NORTH: 4854294 EAST: 661576  
DEPTH: 2.2 METRES  
TIME: AUGUST 30, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 2 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS: ABUNDANT

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.36 SILT: .59 CLAY: 1.04

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0462B  
 LOCATION: UTM NORTH: 4854212 EAST: 662616  
 DEPTH: 4.4 METRES  
 TIME: AUGUST 30, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SUB-SAMPLES: NONE

SAMPLE DESCRIPTION: THICKNESS: CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY COBBLES, BOULDERS SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: PEBBLES: SUBROUNDED MIXED  
 CONSISTENCY: HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: SANDY CLAY SURFACE/CONTACT:  
 STRUCTURE: SMELL:  
 COLOUR: GREY PEBBLES:  
 CONSISTENCY: STIFF HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0463A  
LOCATION: UTM NORTH: 4853211 EAST: 662658  
DEPTH: 13.2 METRES  
TIME: AUGUST 30, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BUFF PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0464B  
LOCATION: UTM NORTH: 4852186 EAST: 662582  
DEPTH: 23.4 METRES  
TIME: AUGUST 30, 1958

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 1 CMS

TEXTURE: GRAVEL  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: ANGULAR  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 97.86 SILT: .11 CLAY: 2.03

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0465B  
LOCATION: UTM NORTH: 4853213 EAST: 663666  
DEPTH: 21.0 METRES  
TIME: AUGUST 30, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES:  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.25 SILT: .78 CLAY: .97

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0466A  
LOCATION: UTM NORTH: 4854234 EAST: 663642  
DEPTH: 10.4 METRES  
TIME: AUGUST 30, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: PEBBLES: SUBROUNDED SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO



## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0467B  
LOCATION: UTM NORTH: 4855175 EAST: 663629  
DEPTH: 3.7 METRES  
TIME: SEPTEMBER 03, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: PEBBLY CLAY  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY: STIFF

SURFACE/CONTACT: IRREGULAR  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0468B  
LOCATION: UTM NORTH: 4856281 EAST: 664547  
DEPTH: 2.6 METRES  
TIME: SEPTEMBER 03, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 5 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS: ABUNDANT

UNIT: 2 THICKNESS: CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 98.41 SILT: .56 CLAY: 1.03

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0469A  
LOCATION: UTM NORTH: 4855236 EAST: 664594  
DEPTH: 11.2 METRES  
TIME: SEPTEMBER 03, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: SEE COMMENTS

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: CLAY  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY: STIFF

SURFACE/CONTACT: IRREGULAR  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 3 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 3 THICKNESS: CMS

TEXTURE: SILT  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT: IRREGULAR  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 98.90 SILT: .40 CLAY: .70

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 04708  
LOCATION: UTM NORTH: 4854271 EAST: 664618  
DEPTH: 13.6 METRES  
TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: MIXED  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0471A  
LOCATION: UTM NORTH: 4853266 EAST: 664644  
DEPTH: 21.8 METRES  
TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T..5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES: SUBROUNDED GREEN SHALE  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 99.07 SILT: .22 CLAY: .71

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0472A  
LOCATION: UTM NORTH: 4854303 EAST: 665615  
DEPTH: 21.6 METRES  
TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. .5 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND SURFACE/CONTACT:  
STRUCTURE: SMELL:  
COLOUR: BROWN PEBBLES: MIXED  
CONSISTENCY: HEAVY MINERALS:

SEDIMENT BASE: BEDROCK INFERRED, ROCK CHIPS  
TEMPERATURE: PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0473A  
LOCATION: UTM NORTH: 4855273 EAST: 665590  
DEPTH: 15.4 METRES  
TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: SANDY MUD  
STRUCTURE:  
COLOUR: LIGHT BROWN  
CONSISTENCY: SOUPY

SURFACE/CONTACT: IRREGULAR  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0474A  
LOCATION: UTM NORTH: 4856324 EAST: 665546  
DEPTH: 3.0 METRES  
TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 2 - 4 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 3 CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE AND SHORT PIPETTE

% GRAV: 0.00 SAND: 98.94 SILT: .17 CLAY: .89

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS



PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0475B  
LOCATION: UTM NORTH: 4856378 EAST: 666530  
DEPTH: 9.4 METRES  
TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: 4 - 6 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
STRUCTURE:  
COLOUR:  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: CARBONATE  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 5 CMS

TEXTURE: PEBBLY MEDIUM-COARSE SANDS  
STRUCTURE:  
COLOUR: BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: SUBROUNDED BLACK SHALE  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 97.30 SILT: .27 CLAY: 2.43

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0476A  
 LOCATION: UTM NORTH: 4855301 EAST: 666583  
 DEPTH: 16.4 METRES  
 TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: COBBLES, BOULDERS  
 STRUCTURE:  
 COLOUR:  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES: CARBONATE  
 HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: SILTY FINE-MEDIUM SAND  
 STRUCTURE:  
 COLOUR: BROWN  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES: ROUNDED SHIELD  
 HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0477B  
LOCATION: UTM NORTH: 4854311 EAST: 666615  
DEPTH: 23.4 METRES  
TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: 2 BOXES + 2 CORES

SAMPLE DESCRIPTION: THICKNESS: 6 - 8 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: GREYISH BUFF  
CONSISTENCY: PACKED (SAND)

SURFACE/CONTACT: DISTURBED SURFACE  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: CMS

TEXTURE: MEDIUM-COARSE SAND  
STRUCTURE:  
COLOUR: REDDISH BUFF  
CONSISTENCY: SOFT

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SIEVE + SETTLING TUBE + SHORT PIPETTE

% GRAV: 0.00 SAND: 98.05 SILT: .54 CLAY: 1.40

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

## PROGRAM DECODE

## DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0478A  
LOCATION: UTM NORTH: 4854339 EAST: 667621  
DEPTH: 25.0 METRES  
TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: 1 CMS

TEXTURE: FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 97.41 SILT: 1.16 CLAY: 1.43

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0479B  
LOCATION: UTM NORTH: 4855324 EAST: 667586  
DEPTH: 17.8 METRES  
TIME: SEPTEMBER 4, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: .5 - 2 CMS  
NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: < .5 CMS

TEXTURE: MUD  
STRUCTURE:  
COLOUR: LIGHT BROWN  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

UNIT: 2 THICKNESS: 2 CMS

TEXTURE: PEBBLY FINE-MEDIUM SAND  
STRUCTURE:  
COLOUR: BUFF  
CONSISTENCY:

SURFACE/CONTACT:  
SMELL:  
PEBBLES: BLACK SHALE  
HEAVY MINERALS:

UNIT: 3 THICKNESS: < .5 CMS

TEXTURE: CLAY  
STRUCTURE:  
COLOUR: GREY  
CONSISTENCY: STIFF

SURFACE/CONTACT: IRREGULAR  
SMELL:  
PEBBLES:  
HEAVY MINERALS:

SEDIMENT BASE:  
TEMPERATURE:

PH:

OTHER NOTES: NOTEBOOK

SAMPLE PHOTO: NO  
UNDERWATER PHOTO: NO

SIZE ANALYSIS: SHORT PIPETTE ONLY

% GRAV: 0.00 SAND: 98.73 SILT: .70 CLAY: .57

SHEPARD LABEL: SAND

FOLK LABELS: GSM: SAND SSC: SAND

SEE SIZDIST OUTPUT FOR DETAILED SIZE STATISTICS

PROGRAM DECODE

DECODED NEARSHORE DATA

LAKE: ONTARIO STATION: 0480B  
 LOCATION: UTM NORTH: 4856277 EAST: 667582  
 DEPTH: 7.2 METRES  
 TIME: SEPTEMBER 04, 1968

SCIENTIST: RUKAVINA LAUNCH/SHIP: GOSLING  
 SOUNDER: TWO FREQUENCIES POSITIONING: CUBIC AUTOTAPE  
 SAMPLER: SHIPEK SUB-SAMPLES: TOTAL SAMPLE

SAMPLE DESCRIPTION: THICKNESS: L.T. 5 CMS  
 NOTE: UNIT 1 IS TOP UNIT

UNIT: 1 THICKNESS: CMS

TEXTURE: PEBBLY SAND  
 STRUCTURE:  
 COLOUR: BUFF  
 CONSISTENCY:

SURFACE/CONTACT:  
 SMELL:  
 PEBBLES: SUBROUNDED CARBONATE  
 HEAVY MINERALS:

SEDIMENT BASE:  
 TEMPERATURE:

PH:

OTHER NOTES: NONE

SAMPLE PHOTO: NO  
 UNDERWATER PHOTO: NO

**APPENDIX 7**

**SIZDIST Listings  
Surface-Sediment Samples**

0315A

SIEVE,SETT.TUBE,PIPETTE( 2) SAMP WT= 50.2955

10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	
0.00	0.00	.00
0.50	0.00	.00
1.00	0.00	.00
1.50	4.07	4.08
2.00	1.36	5.43
2.50	6.79	12.23
3.00	30.56	42.79
3.50	38.71	81.50
4.00	13.58	95.09
8.00	3.67	98.75
*****	1.25	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.98	.57	-.58	1.83
3.08	.58	-.10	1.25

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 0.0 TO 4.0 PHI  
FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	3.09	5TH	1.84	16TH	2.56	25TH	2.71
			75TH	3.42	84TH	3.59	95TH	4.00
PCT. GRAVEL	0.00	SAND	95.09	SILT (PIPETTE)	3.67	CLAY (PIPETTE)	1.25	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	95.09	SILT/(SILT+CLAY)	74.60	PCT.GRAV+SAND/SILT+CLAY	19.35			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

COMMENTS -  
0315A FINE SUSPENSION LEFT 1/2 WAY UP TUBE



0315B  
PCT. GRAVEL 0.00 SAND 89.08 SILT (PIPETTE) 8.98 CLAY (PIPETTE) 1.95  
SIEVE AND PIPETTE( 2) SAMP WT= 59.7172  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 89.08 SILT/(SILT+CLAY) 82.16PCT.GRAV+SAND/SILT+CLAY 8.15  
LABELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	
0.00	0.00	.00
0.50	4.09	.00
1.00	12.69	4.09
1.50	37.67	16.79
2.00	40.54	54.46
2.50	.82	95.00
3.00	0.00	95.82
3.50	0.00	95.82
4.00	1.75	95.82
8.00	2.43	97.57
*****		100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

1.86	.42	-.39	.12
1.92	.45	-.15	.93

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	1.94	5TH	1.04	16TH	1.47	25TH	1.61
			75TH	2.25	84TH	2.35	95TH	2.50

PCT. GRAVEL	0.00	SAND	95.82	SILT (PIPETTE)	1.75	CLAY (PIPETTE)	2.43
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 95.82 SILT/(SILT+CLAY) 41.88PCT.GRAV+SAND/SILT+CLAY 22.92

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

COMMENTS - 0319A

VERY SMALL AMOUNT OF ORGANIC MATERIAL LEFT AFTER RUN

0319B  
PCT. GRAVEL 0.00 SAND 7.98 SILT (PIPETTE) 36.26 CLAY (PIPETTE) 55.76  
SIEVE AND PIPETTE ( 2) SAMP WT= 10.9319  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 7.98 SILT/(SILT+CLAY) 39.40PCT.GRAV+SAND/SILT+CLAY .09  
LABELS SHEPARD -SILTY CLAY FOLK(GMS)-MUD (SCS)-MUD

0319C  
PCT. GRAVEL 0.00 SAND 83.88 SILT (PIPETTE) 10.59 CLAY (PIPETTE) 5.52  
SIEVE AND PIPETTE ( 2) SAMP WT= 31.7216  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 83.88 SILT/(SILT+CLAY) 65.73PCT.GRAV+SAND/SILT+CLAY 5.21  
LABELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-MUDDY SAND

0325A  
PCT. GRAVEL 0.00 SAND 60.73 SILT (PIPETTE) 29.41 CLAY (PIPETTE) 9.85  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 50.2096  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 60.73 SILT/(SILT+CLAY) 74.90 PCT.GRAV+SAND/SILT+CLAY 1.55  
LABELS SHEPARD -SILTY SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

03308  
PCT. GRAVEL 0.00 SAND 23.92 SIEVE AND PIPETTE ( 2 ) SAMP WT= 54.7604  
SILT (PIPETTE) 51.92 CLAY (PIPETTE) 24.16  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 23.92 SILT/(SILT+CLAY) 68.24PCT, GRAV+SAND/SILT+CLAY .31  
LABELS SHEPARD -SAN SIL CLY FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

0331B  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 59.9161  
PCT. GRAVEL 0.00 SAND 11.70 SILT (PIPETTE) 62.04 CLAY (PIPETTE) 26.26  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 11.70 SILT/(SILT+CLAY) 70.26PCT.GRAV+SAND/SILT+CLAY .13  
LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

0332A  
PCT. GRAVEL 0.00 SAND 14.43 SILT (PIPETTE) 67.12 CLAY (PIPETTE) 18.44  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 57.0227  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 14.43 SILT/(SILT+CLAY) 78.45PCT.GRAV+SAND/SILT+CLAY .17  
LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT



0333A  
PCT. GRAVEL 0.00 SAND 75.51 SILT (PIPETTE) 14.85 CLAY (PIPETTE) 9.64  
SIEVE AND PIPETTE( 2) SAMP WT= 54.7894  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 75.51 SILT/(SILT+CLAY) 60.64PCT.GRAV+SAND/SILT+CLAY 3.08  
LABELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-MUDDY SAND

03348  
PCT. GRAVEL 0.00 SAND 7.87 SILT (PIPETTE) 65.44 CLAY (PIPETTE) 26.69  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 60.9505  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 7.87 SILT/(SILT+CLAY) 71.03 PCT.GRAV+SAND/SILT+CLAY .09  
LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-MUD (SCS)-SILT

03368  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 69.3292  
PCT. GRAVEL 0.00 SAND 11.45 SILT (PIPETTE) 67.82 CLAY (PIPETTE) 20.74  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 11.45 SILT/(SILT+CLAY) 76.58PCT.GRAV+SAND/SILT+CLAY .13  
LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

0337A  
PCT. GRAVEL 0.00 SAND 7.00 SILT (PIPETTE) 72.18 CLAY (PIPETTE) 20.81  
SIEVE AND PIPETTE ( 2) SAMP WT= 69.6723  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 7.00 SILT/(SILT+CLAY) 77.62PCT.GRAV+SAND/SILT+CLAY .08  
LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-MUD (SCS)-SILT

10/25/82

PHI	PCT.	CUMPCT.
-4.00		
-3.00	1.57	1.57
-2.00	3.22	4.79
-1.00	2.07	6.86
0.00	3.04	9.91
1.00	9.99	19.90
2.00	42.06	61.96
3.00	34.83	96.79
4.00	2.14	98.93
8.00	.03	98.96
*****	1.04	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

1.46	1.33	-.90	3.58
1.65	1.24	-.29	1.59

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE -3.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	5TH	16TH	25TH	75TH	84TH	95TH
	1.72	-1.90	.61	1.12	2.37	2.63	2.95
GRAVEL	6.86	SAND	92.07	SILT (PIPETTE)	.03	CLAY (PIPETTE)	1.04
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00
GRAVEL+SAND	98.93	SILT/(SILT+CLAY)	2.60	PCT.GRAV+SAND/SILT+CLAY	92.50		
LABELS SHEPARD -SAND		FOLK(GMS)-GRAVELLY SAND		(SCS)-			

03398  
PCT. GRAVEL 0.00 SAND 39.11 SILT (PIPETTE) 53.38 CLAY (PIPETTE) 7.51  
SIEVE AND PIPETTE ( 2) SAMP WT=121.8943  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 39.11 SILT/(SILT+CLAY) 87.67 PCT.GRAV+SAND/SILT+CLAY .64  
LABELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

03408  
PCT. GRAVEL 0.00 SAND 5.45 SILT (PIPETTE) 67.11 CLAY (PIPETTE) 27.45  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 64.0898  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 5.45 SILT/(SILT+CLAY) 70.97PCT.GRAV+SAND/SILT+CLAY .06  
LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-MUD (SCS)-SILT

03418  
SIEVE AND PIPETTE ( 2) SAMP WT= 50.9151  
PCT. GRAVEL 0.00 SAND 13.81 SILT (PIPETTE) 64.59 CLAY (PIPETTE) 21.60  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 13.81 SILT/(SILT+CLAY) 74.93 PCT. GRAV+SAND/SILT+CLAY .16  
LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT.



0342 A SP  
PCT. GRAVEL .05 SAND 21.15 SILT (PIPETTE) 63.94 CLAY (PIPETTE) 14.86  
SIEVE AND PIPETTE( 2) SAMP WT= 20.9603  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 21.20 SILT/(SILT+CLAY) 81.14PCT.GRAV+SAND/SILT+CLAY .27  
LABELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

0343 B  
PCT. GRAVEL 1.50 SAND 88.93 SILT (PIPETTE) 6.70 CLAY (PIPETTE) 2.87  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 19.2081  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 90.43 SILT/(SILT+CLAY) 69.97PCT.GRAV+SAND/SILT+CLAY 9.45  
LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

0344A  
SIEVE AND PIPETTE ( 2) SAMP WT= 57.8542  
PCT. GRAVEL 0.00 SAND 10.05 SILT (PIPETTE) 73.14 CLAY (PIPETTE) 16.81  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 10.05 SILT/(SILT+CLAY) 81.31PCT.GRAV+SAND/SILT+CLAY .11  
LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

03458  
PCT. GRAVEL 0.00 SAND 24.15 SILT (PIPETTE) 58.39 CLAY (PIPETTE) 17.46  
SIEVE AND PIPETTE( 2) SAMP WT= 60.8156  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 24.15 SILT/(SILT+CLAY) 76.99PCT.GRAV+SAND/SILT+CLAY .32  
LABELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

10/25/82

PHI	PCT.	CUMPCT.	
-0.50			
0.00	.48	.48	
0.50	8.23	8.72	*****
1.00	3.87	12.59	****
1.50	6.30	18.89	*****
2.00	24.70	43.59	*****
2.50	17.44	61.03	*****
3.00	20.34	81.37	*****
3.50	9.69	91.06	*****
4.00	3.87	94.94	****
4.50	3.30	98.24	***
5.00	1.76	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

2.08	.91	-.21	-.27
2.20	1.04	.01	1.28

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.18	5TH	.27	16TH	1.27	25TH	1.62
			75TH	2.84	84TH	3.14	95TH	4.08

PCT. GRAVEL	0.00	SAND	94.94	SILT (PIPETTE)	3.30	CLAY (PIPETTE)	1.76
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 94.94 SILT/(SILT+CLAY) 65.18PCT.GRAV+SAND/SILT+CLAY 18.75  
 LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND



0348A  
PCT. GRAVEL 0.00 SAND 9.38 SILT (PIPETTE) 62.97 CLAY (PIPETTE) 27.65  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 48.0013  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 9.38 SILT/(SILT+CLAY) 69.49 PCT. GRAV+SAND/SILT+CLAY .10  
LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-MUD (SCS)-SILT

PHI PCT. CUMPCT.

10/25/82

-1.50	.66		*
-1.00	.99	.66	*
.50	0.00	1.65	
0.00	13.29	1.65	*****
.50	24.59	14.95	*****
1.00	19.28	39.54	*****
1.50	23.93	58.82	*****
2.00	11.97	82.75	*****
2.50	1.33	94.71	*
3.00	.66	96.04	*
3.50	0.00	96.71	
4.00	3.29	96.71	***
*****		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

1.23 .73 -.09 .21

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI

1.28 .76 .05 .90

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES MEDIAN 1.27 5TH .13 16TH .52 25TH .70 75TH 1.84 84TH 2.05 95TH 2.61

PCT. GRAVEL .66 SAND 96.05 SILT (PIPETTE) 3.29 CLAY (PIPETTE) 0.00 (SEDIGRAPH) 3.29 (SEDIGRAPH) 0.00

GRAVEL+SAND 96.71 SILT/(SILT+CLAY) 100.00 PCT. GRAV+SAND/SILT+CLAY 29.37

LABELS SHEPARD -SAND FOLK (GMS) -SAND (SCS) -SAND



03508  
PCT. GRAVEL 0.00 SAND 97.99 SILT (PIPETTE) .88 CLAY (PIPETTE) 1.13  
SIEVE AND PIPETTE ( 2) SAMP WT= 95.6279  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 97.99 SILT/(SILT+CLAY) 43.96PCT.GRAV+SAND/SILT+CLAY 48.81  
LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUM.PCT.
-0.50	.00	.00
0.00	15.49	15.49
0.50	25.46	40.95
1.00	22.69	63.64
1.50	14.94	78.58
2.00	17.71	96.29
2.50	.55	96.84
3.00	.55	97.39
3.50	0.00	97.39
4.00	.52	97.91
8.00	2.09	100.00
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MEAN ST.DEV. SKEWNESS KURTOSIS

1.24	.69	.14	-.87
1.29	.76	.13	.79

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.20	5TH	.16	16TH	.51	25TH	.69
			75TH	1.88	84TH	2.15	95TH	2.46
PCT. GRAVEL	0.00	SAND	97.39	SILT (PIPETTE)	.52	CLAY (PIPETTE)	2.09	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	97.39	SILT/(SILT+CLAY)	19.85	PCT. GRAV+SAND/SILT+CLAY	37.38			
LABELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPGT.
-0.50	.00	.00
0.00	15.80	15.80
0.50	25.96	41.77
1.00	23.14	64.91
1.50	15.24	80.15
2.00	18.06	98.21
2.50	.56	98.77
3.00	.56	99.34
3.50	0.00	99.34
4.00	.08	99.42
8.00	.58	100.00
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MEAN ST.DEV. SKEWNESS KURTOSIS

1.24	.69	.14	-.87
1.26	.74	.13	.80

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.18	5TH	.16	16TH	.50	25TH	.68
			75TH	1.83	84TH	2.11	95TH	2.41
PCT. GRAVEL	0.00	SAND	99.34	SILT (PIPETTE)	.08	CLAY (PIPETTE)	.58	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	99.34	SILT/(SILT+CLAY)	12.68	PCT.GRAV+SAND/SILT+CLAY	150.17			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	.00	.00	
0.00	10.29	10.29	*****
0.50	24.20	34.49	*****
1.00	21.78	56.27	*****
1.50	21.18	77.44	*****
2.00	8.47	85.91	*****
2.50	9.68	95.59	*
3.00	1.21	96.80	*
3.50	.61	97.41	*
4.00	.55	97.96	**
8.00	2.04	100.00	
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MEAN ST.DEV. SKEWNESS KURTOSIS

1.41	.77	.25	-.37
1.45	.86	.17	.98

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.36	5TH	.24	16TH	.62	25TH	.80
			75TH	1.94	84TH	2.39	95TH	2.97
PCT. GRAVEL	0.00	SAND	97.41	SILT (PIPETTE)	.55	CLAY (PIPETTE)	2.04	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	97.41	SILT/(SILT+CLAY)	21.28	PCT.GRAV+SAND/SILT+CLAY	37.57			
LABELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-SAND				

PHI PCT. CUMPCT.

10/25/82

-0.50			
0.00	.00	.00	
0.50	10.38	10.38	*****
1.00	24.42	34.79	*****
1.50	21.97	56.77	*****
2.00	21.36	78.13	*****
2.50	8.55	86.68	*****
3.00	9.77	96.44	*****
3.50	1.22	97.66	*
4.00	.61	98.27	*
8.00	.02	98.29	
****	1.71	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

1.41	.77	.25	-.37	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI
1.43	.84	.17	.98	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.35	5TH	.24	16TH	.62	25TH	.80
			75TH	1.93	84TH	2.34	95TH	2.93
PCT. GRAVEL	0.00	SAND	98.27	SILT (PIPETTE)	.02	CLAY (PIPETTE)	1.71	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	98.27	SILT/(SILT+CLAY)	.97	PCT.GRAV+SAND/SILT+CLAY	56.96			
LABELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-SAND				



0353B  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 84.8830  
PCT. GRAVEL 0.00 SAND 23.26 SILT (PIPETTE) 64.64 CLAY (PIPETTE) 12.09  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 23.26 SILT/(SILT+CLAY) 84.24 PCT. GRAV+SAND/SILT+CLAY .30  
LABELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT





10/25/82

PHI	PCT.	CUMFCT.	
- .50			
0.00	.00	.00	
0.50	.49	.49	
1.00	.49	.99	
1.50	2.96	3.95	***
2.00	7.40	11.35	*****
2.50	17.28	28.63	*****
3.00	7.65	36.28	*****
3.50	4.20	40.48	****
4.00	5.18	45.66	****
4.75	44.81	90.48	*****
5.00	9.52	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

2.41 .73 .03 .06

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	4.39	5TH	1.57	16TH	2.13	25TH	2.39
			75TH	6.62	84TH	7.42	95TH	*****

GRAVEL	0.00	SAND	45.66	SILT (PIPETTE)	44.81	CLAY (PIPETTE)	9.52
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 45.66 SILT/(SILT+CLAY) 82.48 PCT. GRAV+SAND/SILT+CLAY .84

LABELS SHEPARD -SILTY SAND FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	.00
0.00	.53	.53
0.50	2.67	3.21
1.00	4.81	8.02
1.50	11.23	19.26
2.00	39.58	58.84
2.50	37.44	96.28
3.00	1.60	97.89
3.50	0.00	97.89
4.00	.25	98.13
8.00	1.87	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.30	.52	-.62	1.81
2.36	.52	-.21	1.14

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.39	5TH	1.19	16TH	1.86	25TH	2.07
			75TH	2.72	84TH	2.84	95TH	2.98
PCT. GRAVEL	0.00	SAND	97.89	SILT (PIPETTE)	.25	CLAY (PIPETTE)	1.87	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	97.89	SILT/(SILT+CLAY)	11.66	PCT.GRAV+SAND/SILT+CLAY	46.32			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	.00	.00	
0.00	1.16	1.16	*
0.50	3.47	4.63	***
1.00	1.73	6.36	**
1.50	25.44	31.80	*****
2.00	43.37	75.17	*****
2.50	21.97	97.14	*****
3.00	1.16	98.30	*
3.50	.58	98.88	*
4.00	.47	99.35	*
8.00	.65	100.00	*
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

2.16	.53	-.42	2.04
2.20	.53	-.11	1.20

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.21	5TH	1.11	16TH	1.69	25TH	1.87
			75TH	2.50	84TH	2.70	95TH	2.95
PCT. GRAVEL	0.00	SAND	98.88	SILT (PIPETTE)	.47	CLAY (PIPETTE)	.65	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	98.88	SILT/(SILT+CLAY)	41.78	PCT.GRAV+SAND/SILT+CLAY	88.11			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	.00	.00	
0.00	.45	.45	
0.50	1.34	1.79	*
1.00	5.80	7.59	*****
1.50	7.14	14.74	*****
2.00	18.75	33.49	*****
2.50	29.92	63.41	*****
3.00	11.61	75.02	*****
3.50	5.36	80.38	*****
4.00	14.45	94.83	*****
8.00	5.17	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

2.53 .68 -.28 .39

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	2.78	5TH	1.28	16TH	2.03	25TH	2.27
			75TH	3.50	84TH	5.00	95TH	*****
GRAVEL	0.00	SAND	80.38	SILT (PIPETTE)	14.45	CLAY (PIPETTE)	5.17	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	80.38	SILT/(SILT+CLAY)	73.64PCT.	GRAV+SAND/SILT+CLAY	4.10			
LABELS SHEPARD	-SAND	FOLK(GMS)	-MUDDY SAND	(SCS)	-SILTY SAND			

10/25/82

PHI	PCT.	CUMFCT.	
- .50	.00	.00	
0.00	0.00	.00	
.50	6.90	.00	*****
1.00	5.87	6.90	*****
1.50	6.90	12.77	*****
2.00	15.18	19.67	*****
2.50	18.63	34.85	*****
3.00	6.56	53.48	*****
3.50	5.52	60.04	*****
4.00	30.65	65.56	*****
8.00	3.79	96.21	****
*****		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

2.32	.84	-.15	-.60
3.68	2.23	.46	.94

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.91	5TH	.86	16TH	1.73	25TH	2.18
			75TH	5.23	84TH	6.41	95TH	7.84
PCT. GRAVEL	0.00	SAND	65.56	SILT (PIPETTE)	30.65	CLAY (PIPETTE)	3.79	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	65.56	SILT/(SILT+CLAY)	89.00	PCT.GRAV+SAND/SILT+CLAY	1.90			
LABELS SHEPARD	-SILTY SAND	FOLK(GMS)-MUDDY SAND		(SCS)-SILTY SAND				

0359A

SIEVE,SETT.TUBE,PIPETTE( 2) SAMP WT= 70.4399

10/25/82

PHI	PCT.	CUMFCT.	
-0.50			*
0.00	.56	.56	*****
.50	9.44	9.99	*****
1.00	8.88	18.87	*****
1.50	11.10	29.97	*****
2.00	19.98	49.95	*****
2.50	20.54	70.49	*****
3.00	14.99	85.47	*****
3.50	6.66	92.13	*****
4.00	1.11	93.24	*
8.00	3.30	96.54	***
*****	3.46	100.00	***

MEAN ST.DEV. SKEWNESS KURTOSIS

1.83	.89	-.12	-.68
1.93	1.42	.15	1.76

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.00	5TH	.24	16TH	.84	25TH	1.28
			75TH	2.65	84TH	2.95	95TH	6.13
PCT. GRAVEL	0.00	SAND	93.24	SILT (PIPETTE)	3.30	CLAY (PIPETTE)		3.46
				(SEDIGRAPH)	0.00	(SEDIGRAPH)		0.00
GRAVEL+SAND	93.24	SILT/(SILT+CLAY)	48.82	PCT.GRAV+SAND/SILT+CLAY	13.80			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.
-0.50		
0.00	.00	.00
.50	.33	.33
1.00	2.61	2.94
1.50	4.25	7.19
2.00	9.81	17.00
2.50	13.40	30.40
3.00	17.00	47.39
3.50	14.05	61.45
4.00	9.15	70.60
8.00	22.55	93.15
*****	6.85	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.57 .80 -.22 -.41

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	3.09	5TH	1.24	16TH	1.95	25TH	2.30
			75TH	4.78	84TH	6.38	95TH*****	
PCT. GRAVEL	0.00	SAND	70.60	SILT (PIPETTE)	22.55	CLAY (PIPETTE)	6.85	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	70.60	SILT/(SILT+CLAY)	76.71	PCT.GRAV+SAND/SILT+CLAY	2.40			
LABELS SHEPARD	-SILTY SAND	FOLK(GMS)-MUDDY SAND		(SCS)-SILTY SAND				





03618

SIEVE,SETT.TUBE,PIPETTE( 2) SAMP WT=132.2692

10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	.00
0.00	0.00	.00
.50	1.78	.00
1.00	4.45	1.78
1.50	13.79	6.23
2.00	29.36	20.02
2.50	45.82	49.38
3.00	3.56	95.21
3.50	0.00	98.77
4.00	.37	98.77
8.00	.86	99.14
*****		100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.38	.51	-.49	.80
2.41	.50	-.34	.97

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.51	5TH	1.36	16TH	1.85	25TH	2.08
			75TH	2.78	84TH	2.88	95TH	3.00
PCT. GRAVEL	0.00	SAND	98.77	SILT (PIPETTE)	.37	CLAY (PIPETTE)	.86	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	98.77	SILT/(SILT+CLAY)	30.39	PCT.GRAV+SAND/(SILT+CLAY)	80.05			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMFCT.	
-0.50	.00	.00	
0.00	0.00	.00	
.50	1.72	.00	**
1.00	4.72	1.72	*****
1.50	9.01	6.44	*****
2.00	25.75	15.45	*****
2.50	53.21	41.20	*****
3.00	4.29	94.41	*****
3.50	0.00	98.70	****
4.00	.53	98.70	*
8.00	.77	99.23	*
*****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

2.44	.50	-.64	1.53
2.50	.48	-.36	1.12

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.58	5TH	1.35	16TH	2.01	25TH	2.19
			75TH	2.82	84TH	2.90	95TH	3.07
PCT. GRAVEL	0.00	SAND	98.70	SILT (PIPETTE)	.53	CLAY (PIPETTE)	.77	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	98.70	SILT/(SILT+CLAY)	40.50	PCT.GRAV+SAND/SILT+CLAY	75.82			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

0362B  
PCT. GRAVEL 0.00 SAND 97.57 SIEVE AND PIPETTE ( 2) SAMP WT= 64.0649  
SILT (PIPETTE) .43 CLAY (PIPETTE) 2.00  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 97.57 SILT/(SILT+CLAY) 17.74PCT.GRAV+SAND/SILT+CLAY 40.17  
LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND



PHI PCT. CUMPCT.

10/25/82

-0.50			
0.00	.00	.00	
0.50	0.00	.00	
1.00	0.00	.00	
1.50	0.00	.00	
2.00	3.84	3.84	****
2.50	3.84	7.68	****
3.00	16.65	24.33	*****
3.50	64.68	89.01	*****
4.00	6.40	95.41	*****
8.00	2.96	98.37	***
*****	1.63	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

3.10	.41	-.79	2.99	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI
3.14	.45	-.21	1.93	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	3.20	5TH	2.15	16TH	2.75	25TH	3.01
			75TH	3.39	84TH	3.46	95TH	3.97
PCT. GRAVEL	0.00	SAND	95.41	SILT (PIPETTE)	2.96	CLAY (PIPETTE)	1.63	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	95.41	SILT/(SILT+CLAY)	64.51	PCT.GRAV+SAND/SILT+CLAY	20.80			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	.00		
0.00	0.00	.00	
0.50	0.00	.00	
1.00	0.00	.00	
1.50	1.02	1.02	*
2.00	2.04	3.06	**
2.50	4.08	7.15	****
3.00	32.16	39.31	*****
3.50	48.49	87.80	*****
4.00	4.08	91.88	****
4.50	5.74	97.62	*****
5.00	2.38	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

3.00	.42	-.68	3.27	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI
3.07	.80	.20	2.73	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	3.11	5TH	2.24	16TH	2.64	25TH	2.78
			75TH	3.37	84TH	3.46	95TH	6.17
PCT. GRAVEL	0.00	SAND	91.88	SILT (PIPETTE)	5.74	CLAY (PIPETTE)	2.38	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	91.88	SILT/(SILT+CLAY)	70.69	PCT.GRAV+SAND/SILT+CLAY	11.32			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

COMMENTS - 0365A VERY FINE SUSPENSION LEFT IN 3/4 OF TUBE

0366A

SIEVE,SETT.TUBE,PIPETTE( 2) SAMP WT= 57.9898

10/25/82

PHI	PCT.	CUMPCT.
- .50	.00	.00
0.00	0.00	.00
.50	0.00	.00
1.00	0.00	.00
1.50	0.00	.00
2.00	0.00	.00
2.50	1.65	.00
3.00	18.60	1.65
3.50	62.01	20.26
4.00	10.34	82.27
4.00	5.70	92.61
8.00	1.70	98.30
*****		100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

3.19 .30 -.21 .83

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

3.24 .64 .28 3.14

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	3.24	5TH	2.59	16TH	2.89	25TH	3.04
			75TH	3.44	84TH	3.58	95TH	5.68

PCT. GRAVEL	0.00	SAND	92.61	SILT (PIPETTE)	5.70	CLAY (PIPETTE)	1.70
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 92.61 SILT/(SILT+CLAY) 77.05PCT.GRAV+SAND/SILT+CLAY 12.52

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND





0368A  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 25.5184  
PCT. GRAVEL 0.00 SAND 95.34 SILT (PIPETTE) 2.04 CLAY (PIPETTE) 2.62  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 95.34 SILT/(SILT+CLAY) 43.77PCT.GRAV+SAND/SILT+CLAY 20.48  
LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMPCT.
-2.00		
-1.00	.12	
0.00	1.75	.12
1.00	27.03	1.87
2.00	59.95	28.90
3.00	7.75	88.84
4.00	2.34	96.60
8.00	.44	98.93
	.62	99.38
*****		100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

1.31	.70	.15	1.45
1.26	.75	-.06	1.20

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.35	5TH	.12	16TH	.52	25TH	.86
			75TH	1.77	84TH	1.92	95TH	2.79
PCT. GRAVEL	.12	SAND	98.82	SILT (PIPETTE)	.44	CLAY (PIPETTE)		.62
				(SEDIGRAPH)	0.00	(SEDIGRAPH)		0.00
GRAVEL+SAND	98.93	SILT/(SILT+CLAY)	41.62	PCT.GRAV+SAND/SILT+CLAY	92.70			
LABELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-SAND				

PHI PCT. CUMPCT.

10/25/82

-4.00			***
-3.00	3.03	3.03	*
-2.00	.77	3.80	****
-1.00	4.01	7.81	*****
0.00	8.32	16.14	*****
1.00	22.18	38.32	*****
2.00	40.13	78.45	*****
3.00	18.85	97.30	**
4.00	1.94	99.24	*
8.00	.17	99.41	
*****	.59	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

1.03	1.36	-.64	2.16
1.19	1.27	-.22	1.24

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE -3.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.29	5TH	-1.70	16TH	-.02	25TH	.40
			75TH	1.91	84TH	2.29	95TH	2.88

T. GRAVEL 7.81 SAND 91.43 SILT (PIPETTE) .17 CLAY (PIPETTE) .59  
 (SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
 GRAVEL+SAND 99.24 SILT/(SILT+CLAY) 22.85PCT.GRAV+SAND/SILT+CLAY 130.50  
 LABELS SHEPARD -SAND FOLK(GMS)-GRAVELLY SAND (SCS)-

03718

SIEVE,SETT.TUBE,PIPETTE( 2) SAMP WT= 54.7547

10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	.00
0.00	0.00	.00
0.50	5.52	.00
1.00	6.70	5.52
1.50	12.22	
2.00	19.32	31.54
2.50	45.73	77.27
3.00	18.92	96.20
3.50	2.37	98.56
4.00	0.00	98.56
8.00	.34	98.90
*****	1.10	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.12	.55	-.35	.48
2.16	.58	-.18	1.28

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.20	5TH	.95	16TH	1.60	25TH	1.83
			75TH	2.48	84TH	2.68	95TH	2.97
PCT. GRAVEL	0.00	SAND	98.56	SILT (PIPETTE)	.34	CLAY (PIPETTE)	1.10	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	98.56	SILT/(SILT+CLAY)	23.86	PCT.GRAV+SAND/SILT+CLAY	68.49			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

COMMENTS - 03718

N.B. LAST THREE FIG. DIFF. TO ESTIMATE

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10/25/82

PHI	PCT.	CUMPCT.	
-4.00			
-3.50	3.07	3.07	***
-3.00	3.07	6.14	***
-2.50	.87	7.01	*
-2.00	.87	7.87	*
-1.50	8.76	16.63	*****
-1.00	8.76	25.38	*****
-.50	10.23	35.62	*****
0.00	10.23	45.85	*****
.50	11.76	57.61	*****
1.00	15.43	73.04	*****
1.50	15.20	88.23	*****
2.00	8.05	96.29	*****
2.50	2.89	99.17	***
3.00	.67	99.84	*
3.50	.09	99.93	
4.00	.02	99.95	
****	.05	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-0.06 1.46 -.32 -.06

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

.00 1.50 -.25 1.00

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	.18	5TH	-3.19	16TH	-1.54	25TH	-1.02
			75TH	1.06	84TH	1.35	95TH	1.92

PCT. GRAVEL 25.38 SAND 74.56 SILT+CLAY .05

GRAVEL+SAND 99.95 GRAV+SAND/SILT+CLAY 1854.36

LABELS SHEPARD -SAND FOLK(GMS)-GRAVELLY SAND (SCS)-

COMMENTS -

0372A ONE PHI DATA COARSER THAN 0 PHI SUBDIVIDED TO GIVE HALF-PHI VALUES \*

0373B  
PCT. GRAVEL 0.00 SAND 99.42 SILT (PIPETTE) .15 CLAY (PIPETTE) .43  
SIEVE AND PIPETTE ( 2 ) SAMP. WT= 80.6183  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.42 SILT/(SILT+CLAY) 26.50 PCT. GRAV+SAND/SILT+CLAY 171.26  
LABELS SHEPARD -SAND FOLK (GMS) -SAND (SCS) -SAND

10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	.00
0.00	0.00	.00
0.50	0.00	.00
1.00	0.00	.00
1.50	0.00	.00
2.00	1.97	1.97
2.50	3.93	5.90
3.00	45.23	51.13
3.50	45.72	96.85
4.00	1.97	98.82
8.00	.42	99.24
*****	.76	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.96	.35	-.40	1.46
2.99	.35	-.05	.82

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD,1957

PERCENTILES	MEDIAN	5TH	16TH	25TH
	2.99	2.39	2.61	2.71
		3.26	3.36	3.48

PCT. GRAVEL	0.00	SAND	98.82	SILT (PIPETTE)	.42	CLAY (PIPETTE)	.76
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND	98.82	SILT/(SILT+CLAY)	35.54	PCT.GRAV+SAND/SILT+CLAY	83.64
LABELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-SAND	

10/25/82

PHI	PCT.	CUMPCT.
-3.00		
-2.00	.89	.89
0.00	2.29	3.18
0.00	5.84	9.02
1.00	18.46	27.48
2.00	50.27	77.75
3.00	15.62	93.36
4.00	5.69	99.05
8.00	.30	99.36
*****	.64	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

1.36	1.07	-.31	1.47
1.41	1.11	-.07	1.51

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	5TH	16TH	25TH
	1.45	-.69	.38	.87
		1.95	2.40	3.29

PCT. GRAVEL	3.18	SAND	95.87	SILT (PIPETTE)	.30	CLAY (PIPETTE)	.64
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 99.05 SILT/(SILT+CLAY) 32.00PCT.GRAV+SAND/SILT+CLAY 104.77

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND



10/25/82

PHI	PCT.	CUMPCT.	
-4.00			**
-3.50	2.35	2.35	*****
-3.00	7.25	9.61	*****
-2.50	12.03	21.63	*****
-2.00	12.03	33.66	*****
-1.50	17.05	50.71	*****
-1.00	17.05	67.76	*****
-.50	8.80	76.56	*****
0.00	8.80	85.36	*****
.50	5.62	90.99	*****
1.00	4.22	95.21	****
1.50	1.92	97.13	**
2.00	1.71	98.84	**
2.50	.80	99.64	*
3.00	.26	99.90	
3.50	.05	99.95	
4.00	.01	99.96	
****	.04	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.40	1.30	.28	.06
-1.44	1.31	.12	.99

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN -1.52	5TH -3.32	16TH -2.73	25TH -2.36
		75TH -.59	84TH -.08	95TH .98

PCT. GRAVEL	67.76	SAND	32.20	SILT+CLAY	.04
GRAVEL+SAND	99.96			GRAV+SAND/SILT+CLAY	2405.09

LABELS SHEPARD -SAND FOLK(GMS)-SANDY GRAVEL (SCS)-

COMMENTS - 0378A ONE PHI DATA COARSER THAN 0 PHI HAVE BEEN SUBDIVIDED INTO HALF-PHI \*

PHI PCT. CUMPCT.

10/25/82

-4.00			*****
-3.00	10.86	10.86	*****
0.00	6.36	17.21	*****
-1.00	6.42	23.63	*****
0.00	8.75	32.38	*****
1.00	16.35	48.73	*****
2.00	41.48	90.21	*****
3.00	7.94	98.16	*****
4.00	.31	98.47	*
8.00	.87	99.34	*
*****	.66	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

.24	1.84	-.44	-.46
.23	1.94	-.54	1.02

KRUMBÉIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.03	5TH	-3.54	16TH	-2.19	25TH	-.84
			75TH	1.63	84TH	1.85	95TH	2.60

T. GRAVEL 23.63 SAND 74.84 SILT (PIPETTE) .87 CLAY (PIPETTE) .66  
 (SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00

GRAVEL+SAND 98.47 SILT/(SILT+CLAY) 56.71PCT.GRAV+SAND/SILT+CLAY 64.35

LABELS SHEPARD -SAND FOLK(GMS)-GRAVELLY SAND (SCS)-



10/25/82

PHI	PCT.	CUMPCT.	
-4.00			
-3.50	2.76		***
0.00	2.77	2.76	***
	6.97	5.53	*****
-2.50	6.97	12.50	*****
-2.00	10.62	19.46	*****
-1.50	10.62	30.09	*****
-1.00	13.34	40.71	*****
-.50	13.34	54.05	*****
0.00	5.82	67.39	*****
.50	10.73	73.21	*****
1.00	10.93	83.94	*****
1.50	4.18	94.87	****
2.00	.68	99.04	*
2.50	.19	99.72	
3.00	.05	99.91	
3.50	.01	99.96	
4.00	.03	99.97	
*****		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-.67	1.45	-.06	-.77
-.63	1.51	-.02	.81

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	5TH	16TH	25TH
	-.65	-3.10	-2.25	-1.74
		.58	1.00	1.52

PCT. GRAVEL	40.71	SAND	59.26	SILT+CLAY	.03
GRAVEL+SAND	99.97			GRAV+SAND/SILT+CLAY	3344.11
LABELS SHEPARD	-SAND	FOLK(GMS)-SANDY GRAVEL		(SCS)-	

COMMENTS - 0382A DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES \*

03828  
PGT. GRAVEL 0.00 SAND 99.46 SILT (PIPETTE) .27 CLAY (PIPETTE) .27  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 72.5567  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.46 SILT/(SILT+CLAY) 50.00PCT.GRAV+SAND/SILT+CLAY 184.09  
LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMPCT.	
-3.00			
-2.50	2.16	2.16	**
00	2.16	4.32	**
-1.50	6.77	11.09	*****
-1.00	6.77	17.86	*****
-0.50	17.36	35.21	*****
0.00	17.36	52.57	*****
.50	24.90	77.47	*****
1.00	13.14	90.61	*****
1.50	5.49	96.10	*****
2.00	2.75	98.85	***
2.50	.76	99.60	*
3.00	.20	99.81	
3.50	.13	99.93	
4.00	.04	99.97	
*****	.03	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-.18	1.00	-.11	.29
-.15	.98	-.12	1.10

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	-.07	5TH	-1.95	16TH	-1.14	25TH	-.79
			75TH	.45	84TH	.75	95TH	1.40

PCT. GRAVEL	17.86	SAND	82.11	SILT+CLAY	.03
GRAVEL+SAND	99.97			GRAV+SAND/SILT+CLAY	3072.13
LABELS SHEPARD	-SAND	FOLK(GMS)-GRAVELLY SAND		(SCS)-	

COMMENTS - 0383B DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES \*

10/25/82

PHI	PCT.	CUMPCT.	
-4.00			
-3.50	3.17	3.17	***
0.00	3.16	6.33	***
-2.50	17.41	23.74	*****
-2.00	17.41	41.15	*****
-1.50	14.23	55.37	*****
-1.00	14.23	69.60	*****
-.50	9.05	78.65	*****
0.00	9.05	87.69	*****
.50	6.37	94.06	*****
1.00	4.04	98.10	****
1.50	.79	98.90	*
2.00	.16	99.06	
2.50	.05	99.12	
3.00	.12	99.24	
3.50	.50	99.74	
4.00	.21	99.94	
****	.06	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-1.52	1.23	.36	.86
-1.54	1.21	.19	.89

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN -1.59	5TH -3.21	16TH -2.72	25TH -2.46
		75TH -.70	84TH -.20	95TH .62

PCT. GRAVEL	69.60	SAND	30.34	SILT+CLAY	.06
GRAVEL+SAND	99.94			GRAV+SAND/SILT+CLAY	1731.19

LABELS SHEPARD -SAND FOLK(GMS)-SANDY GRAVEL (SCS)-

COMMENTS - 03848 DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES

10/25/82

PHI	PCT.	CUMPCT.	
-4.00			
-3.50	3.49		***
0.00	3.49	3.49	***
-2.50	8.98	6.97	*****
-2.00	8.98	15.95	*****
-1.50	8.66	24.94	*****
-1.00	8.66	33.59	*****
-0.50	7.67	42.25	*****
0.00	7.67	49.92	*****
.50	9.66	57.59	*****
1.00	14.95	67.25	*****
1.50	12.53	82.19	*****
2.00	4.28	94.73	****
2.50	.73	99.01	*
3.00	.16	99.74	
3.50	.03	99.90	
4.00	.02	99.93	
*****	.04	99.96	
		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-.64 1.58 -.11 -1.10

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

-.64 1.62 -.14 .72

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	- .49	5TH	-3.28	16TH	-2.50	25TH	-2.00
			75TH	.76	84TH	1.07	95TH	1.53

PCT. GRAVEL 42.25 SAND 57.71 SILT+CLAY .04

GRAVEL+SAND 99.96 GRAV+SAND/SILT+CLAY 2274.85

LABELS SHEPARD -SAND FOLK(GMS)-SANDY GRAVEL (SCS)-

COMMENTS - 0385A DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES \*



0385B  
PCT. GRAVEL 0.00 SAND 98.79 SILT (PIPETTE) .27 CLAY (PIPETTE) .94  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 86.5304  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 98.79 SILT/(SILT+CLAY) 22.22PCT.GRAV+SAND/SILT+CLAY 81.88  
LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

0386A  
SIEVE AND PIPETTE ( 2) SAMP WT= 57.8699  
PCT. GRAVEL 0.00 SAND 99.43 SILT (PIPETTE) .10 CLAY (PIPETTE) .46  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.43 SILT/(SILT+CLAY) 18.29PCT.GRAV+SAND/SILT+CLAY 175.43  
LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

0386C  
PCT. GRAVEL 0.00 SAND 24.65 SILT (PIPETTE) 20.11 CLAY (PIPETTE) 55.24  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 41.9929  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 24.65 SILT/(SILT+CLAY) 26.69 PCT.GRAV+SAND/SILT+CLAY .33  
LABELS SHEPARD -SAN SIL CLY FOLK(GMS)-SANDY MUD (SCS)-SANDY CLAY

PHI PCT. CUMPCT.

10/25/82

-3.00			*
.50	.85	.85	*
-2.00	.85	1.69	*****
-1.50	12.05	13.74	*****
-1.00	12.05	25.79	*****
-.50	12.30	38.08	*****
0.00	12.30	50.38	*****
.50	20.35	70.73	*****
1.00	19.18	89.92	*****
1.50	7.33	97.25	*****
2.00	2.20	99.45	**
2.50	.41	99.85	
3.00	.08	99.93	
3.50	.01	99.94	
4.00	.00	99.95	
****	.05	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-.19	1.02	-.09	-.76
-.19	1.05	-.19	.80

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	-.02	5TH	-1.86	16TH	-1.41	25TH	-1.03
			75TH	.61	84TH	.85	95TH	1.35

PCT. GRAVEL	25.79	SAND	74.16	SILT+CLAY	.05
GRAVEL+SAND	99.95			GRAV+SAND/SILT+CLAY	1842.87
LABELS SHEPARD	-SAND	FOLK(GMS)-GRAVELLY SAND		(SCS)-	

COMMENTS - 0387A DATA COARSER THAN 0 PHI SUBDIVIDED INTO HALF-PHI CLASSES

10/25/82

PHI	PCT.	CUMPCT.	
-4.00			*
.50	.59	.59	*
-3.00	.59	1.19	**
-2.50	1.63	2.82	**
-2.00	1.63	4.45	*****
-1.50	4.69	9.15	*****
-1.00	4.69	13.84	*****
-.50	16.77	30.60	*****
0.00	16.77	47.37	*****
.50	13.94	61.31	*****
1.00	15.95	77.26	*****
1.50	11.69	88.95	*****
2.00	7.41	96.36	**
2.50	1.92	98.28	*
3.00	.54	98.81	
3.50	.11	98.92	
4.00	.04	98.96	
8.00	.32	99.28	
***	.72	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

.06	1.16	-.20	.31
.15	1.14	.01	.99

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	.09	5TH -1.94	16TH -.94	25TH -.67	
			75TH .93	84TH 1.29	95TH 1.91	
PCT. GRAVEL	13.84	SAND 85.12	SILT (PIPETTE)	.32	CLAY (PIPETTE)	.72
			(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00
GRAVEL+SAND	98.96	SILT/(SILT+CLAY)	31.16PCT.GRAV+SAND/SILT+CLAY	95.18		
LABELS SHEPARD	-SAND	FOLK(GMS)-GRAVELLY SAND	(SCS)-			

COMMENTS -

0389B DATA COARSER THAN ZERO PHI SUBDIVIDED INTO HALF-PHI CLASSES



0391A

SIEVE AND PIPETTE( 2)

SAMP WT= 59.4140

PHI PCT. CUMPCT.

10/25/82

-4.00			
0.00	9.83	9.83	*****
-2.00	3.28	13.11	***
-1.00	2.76	15.87	***
0.00	3.18	19.05	***
1.00	7.32	26.37	*****
2.00	50.13	76.50	*****
3.00	21.98	98.48	*****
4.00	.56	99.03	*
8.00	.32	99.35	*
*****	.65	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

.88	1.82	-.74	.96
.95	1.78	-.52	2.24

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE -3.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.47	5TH	-3.49	16TH	-.96	25TH	.81
			75TH	1.97	84TH	2.34	95TH	2.84

PCT. GRAVEL	15.87	SAND	83.16	SILT (PIPETTE)	.32	CLAY (PIPETTE)	.65
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00
GRAVEL+SAND	99.03	SILT/(SILT+CLAY)	33.33	PCT.GRAV+SAND/SILT+CLAY	102.17		
LABELS SHEPARD	-SAND	FOLK(GMS)-GRAVELLY SAND		(SCS)-			

03918  
PCT. GRAVEL 0.00 SAND 86.21 SILT (PIPETTE) 8.55 CLAY (PIPETTE) 5.25  
SIEVE AND PIPETTE ( 2) SAMP WT= 45.1248  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 86.21 SILT/(SILT+CLAY) 61.95 PCT. GRAV+SAND/SILT+CLAY 6.25  
LABELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-MUDDY SAND



0392A  
PCT. GRAVEL 0.00 SAND 22.43 SILT (PIPETTE) 60.23 CLAY (PIPETTE) 17.34  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 13.6540  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 22.43 SILT/(SILT+CLAY) 77.64 PCT. GRAV+SAND/SILT+CLAY .29  
ABELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT



10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	
0.00	0.00	.00
.50	0.00	.00
1.00	0.00	.00
1.50	3.80	3.80
2.00	3.80	7.61
2.50	8.69	16.30
3.00	50.00	66.30
3.50	29.89	96.19
4.00	1.09	97.27
8.00	.23	97.50
*****	2.50	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.77 .49 -.64 2.09

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

2.87 .48 -.08 1.34

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARO,1957

PERCENTILES	MEDIAN	2.84	5TH	1.66	16TH	2.48	25TH	2.59
			75TH	3.15	84TH	3.30	95TH	3.48
PCT. GRAVEL	0.00	SAND	97.27	SILT (PIPETTE)	.23	CLAY (PIPETTE)	2.50	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	97.27	SILT/(SILT+CLAY)	8.44	PCT.GRAV+SAND/SILT+CLAY	35.69			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

03958

SIEVE, SETT. TUBE, PIPETTE ( 2 ) SAMP WT= 52.9985

10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	.00
0.00	1.99	2.00
.50	18.95	20.95
1.00	39.90	60.85
1.50	29.43	90.28
2.00	8.48	98.75
2.50	.50	99.25
3.00	0.00	99.25
3.50	0.00	99.25
4.00	.10	99.35
8.00	.65	100.00
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MEAN ST.DEV. SKEWNESS KURTOSIS

1.38	.47	.05	-.28
1.38	.51	.06	1.01

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.36	5TH	.58	16TH	.87	25TH	1.05
			75TH	1.74	84TH	1.89	95TH	2.28
PCT. GRAVEL	0.00	SAND	99.25	SILT (PIPETTE)	.10	CLAY (PIPETTE)	.65	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	99.25	SILT/(SILT+CLAY)	13.13	PCT.GRAV+SAND/SILT+CLAY	132.83			
LABELS SHEPARD	-SAND	FOLK (GMS)-SAND		(SCS)-SAND				

03968

PCT. GRAVEL	0.00	SAND	98.39	SIEVE AND PIPETTE ( 2 )	SAMP WT= 59.6448	CLAY (PIPETTE)	.86
				SILT (PIPETTE)	.75		
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00
GRAVEL+SAND	98.39	SILT/(SILT+CLAY)	46.67	PCT.GRAV+SAND/SILT+CLAY	61.13		
BELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-SAND			

0397A  
PCT. GRAVEL 0.00 SAND 99.43 SIEVE AND PIPETTE ( 2 ) SAMP WT= 61.2408  
SILT (PIPETTE) .25 CLAY (PIPETTE) .33  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.43 SILT/(SILT+CLAY) 43.18PCT.GRAV+SAND/SILT+CLAY 172.98  
BELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMPCT.
-3.00		
	.59	
0.00	1.61	.59
-1.00	3.77	2.21
0.00	18.37	5.97
1.00	69.28	24.34
2.00	5.42	93.62
3.00	.16	99.05
4.00	.10	99.21
8.00	.70	99.30
*****		100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

1.22	.75	-.89	5.25
1.26	.71	-.28	1.43

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE -2.0 TO 4.0 PHI  
FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.37	5TH	-.26	16TH	.55	25TH	1.01
			75TH	1.73	84TH	1.86	95TH	2.25

PCT. GRAVEL	2.21	SAND	97.00	SILT (PIPETTE)	.10	CLAY (PIPETTE)	.70
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND	99.21	SILT/(SILT+CLAY)	12.04	PCT.GRAV+SAND/SILT+CLAY	125.01
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LABELS SHEPARD	-SAND	FOLK(GMS)-SAND	(SCS)-SAND
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0399A  
PCT. GRAVEL 0.00 SAND 99.53 SIEVE AND PIPETTE ( 2 ) SAMP WT= 67.9408  
SILT (PIPETTE) .18 CLAY (PIPETTE) .29  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.53 SILT/(SILT+CLAY) 37.97PCT.GRAV+SAND/SILT+CLAY 214.00  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND



10/25/82

PHI	PCT.	CUMPCT.
-4.00		
3.00	2.15	2.15
2.00	2.60	4.75
-1.00	2.27	7.02
0.00	1.95	8.97
1.00	16.68	25.65
2.00	62.34	87.99
3.00	11.14	99.13
4.00	.12	99.24
8.00	.06	99.30
****	.70	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

1.13	1.18	-1.10	5.35
1.25	1.06	-.37	2.23

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE -3.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.39	5TH	-1.89	16TH	.42	25TH	.96
			75TH	1.79	84TH	1.94	95TH	2.63
ST. GRAVEL	7.02	SAND	92.23	SILT (PIPETTE)	.06	CLAY (PIPETTE)	.70	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	99.24	SILT/(SILT+CLAY)	7.37	PCT.GRAV+SAND/SILT+CLAY	131.34			
LABELS SHEPARD -SAND		FOLK(GMS)-GRAVELLY SAND		(SCS)-				

10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	.00
0.00	0.00	.00
.50	0.00	.00
1.00	4.23	.00
1.50	12.70	4.23
2.00	15.53	16.94
2.50	16.23	32.47
3.00	9.18	48.70
3.50	8.47	57.88
4.00	14.14	66.35
8.00	19.51	80.49
*****		100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.54 .72 .05 -.86

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	3.07	5TH	1.53	16TH	1.96	25TH	2.26
			75TH	6.45	84TH*****		95TH*****	
PCT. GRAVEL	0.00	SAND	66.35	SILT (PIPETTE)	14.14	CLAY (PIPETTE)	19.51	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	

GRAVEL+SAND 66.35 SILT/(SILT+CLAY) 42.02PCT.GRAV+SAND/SILT+CLAY 1.97  
 LABELS SHEPARD -CLAYEY SAND FOLK(GMS)-MUDDY SAND (SCS)-MUDDY SAND

COMMENTS -  
 0403A STILL FINE SUSPENSION IN 1/2 TUBE

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04038  
PCT. GRAVEL 0.00 SAND 58.74 SILT (PIPETTE) 37.59 CLAY (PIPETTE) 3.67  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 58.2948  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 58.74 SILT/(SILT+CLAY) 91.10 PCT. GRAV+SAND/SILT+CLAY 1.42  
LABELS SHEPARD -SILTY SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

10/25/82

PHI	PCT.	CUMPCT.
- .50	.00	
.00	0.00	.00
.50	0.00	.00
1.00	0.00	.00
1.50	3.04	.00
2.00	12.18	3.04
2.50	39.57	15.22
3.00	20.29	54.79
3.50	7.10	75.08
4.00	14.29	82.19
8.00	3.52	96.48
*****		100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.85	.46	-.01	.03
3.32	1.33	.63	2.58

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN 2.94	5TH 2.08	16TH 2.51	25TH 2.62
		75TH 3.50	84TH 4.51	95TH 7.59
PCT. GRAVEL	0.00	SAND 82.19	SILT (PIPETTE) 14.29	CLAY (PIPETTE) 3.52
		(SEDIGRAPH) 0.00	(SEDIGRAPH) 0.00	
GRAVEL+SAND	82.19	SILT/(SILT+CLAY)	80.24	PCT.GRAV+SAND/SILT+CLAY 4.61
LABELS SHEPARD -SAND		FOLK(GMS)-MUDDY SAND		(SCS)-SILTY SAND

04078  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 64.2272  
PCT. GRAVEL 0.00 SAND 99.14 SILT (PIPETTE) .34 CLAY (PIPETTE) .52  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.14 SILT/(SILT+CLAY) 39.13 PCT.GRAV+SAND/SILT+CLAY 115.35  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

0418B  
PCT. GRAVEL 0.00 SAND 97.74 SILT (PIPETTE) .80 CLAY (PIPETTE) 1.46  
SIEVE AND PIPETTE ( 2) SAMP WT= 71.8829  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 97.74 SILT/(SILT+CLAY) 35.22 PCT. GRAV+SAND/SILT+CLAY 43.26  
BELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

0432A  
PCT. GRAVEL 0.00 SAND 34.48 SILT (PIPETTE) 47.29 CLAY (PIPETTE) 18.22  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 79.8517  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 34.48 SILT/(SILT+CLAY) 72.18PCT.GRAV+SAND/SILT+CLAY .53  
LABELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

04338  
PCT. GRAVEL 0.00 SAND 99.36 SIEVE AND PIPETTE ( 2) SAMP WT= 57.8988  
SILT (PIPETTE) .33 CLAY (PIPETTE) .31  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.36 SILT/(SILT+CLAY) 51.61PCT.GRAV+SAND/SILT+CLAY 154.64  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND



04348  
PCT. GRAVEL 0.00 SAND 95.12 SILT (PIPETTE) 4.03 CLAY (PIPETTE) .86  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 50.8730  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 95.12 SILT/(SILT+CLAY) 82.45PCT.GRAV+SAND/SILT+CLAY 19.48  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMFCT.	
- .50	.00	.00	
0.00	2.28	2.28	**
.50	9.11	11.39	*****
1.00	6.83	18.22	*****
1.50	20.50	38.72	*****
2.00	30.75	69.47	*****
2.50	14.80	84.27	*****
3.00	5.69	89.96	*****
3.50	4.56	94.52	*****
4.00	3.65	98.17	****
8.00	1.83	100.00	**
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

2.09	.79	-.07	-.07
2.17	1.00	.09	1.56

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.18	5TH	.65	16TH	1.34	25TH	1.67
			75TH	2.69	84TH	2.99	95TH	4.53
PCT. GRAVEL	0.00	SAND	94.52	SILT (PIPETTE)	3.65	CLAY (PIPETTE)	1.83	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	94.52	SILT/(SILT+CLAY)	66.67	PCT.GRAV+SAND/SILT+CLAY	17.25			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SGS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	.00	.00	
0.00	0.00	.00	
.50	.27	.27	
1.00	1.90	.27	**
1.50	1.36	2.17	*
2.00	1.63	3.53	**
2.50	2.58	5.15	***
3.00	4.34	7.73	****
3.50	8.27	12.07	*****
4.00	64.83	20.34	*****
8.00	14.83	85.17	*****
*****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

2.99      .87      -.48      -.33      KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	5.83	5TH	2.45	16TH	3.74	25TH	4.29
			75TH	7.37	84TH	7.93	95TH	*****
PCT. GRAVEL	0.00	SAND	20.34	SILT (PIPETTE)	64.83	CLAY (PIPETTE)	14.83	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	20.34	SILT/(SILT+CLAY)	81.38	PCT.GRAV+SAND/SILT+CLAY	.26			
LABELS SHEPARD	-SANDY SILT	FOLK(GMS)	-SANDY MUD			(SCS)	-SANDY SILT	

PHI PCT. CUMPCT.

10/25/82

-0.50	.00	.00	
0.00	0.00	.00	
.50	9.70	.00	*****
1.00	13.09	9.70	*****
1.50	27.63	22.79	*****
2.00	19.39	50.42	*****
2.50	11.64	69.81	*****
3.00	4.85	81.45	*****
3.50	.97	86.29	*
4.00	7.78	87.26	*****
8.00	4.95	95.05	*****
*****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

1.91	.69	.10	-.38
2.17	1.60	.46	2.50

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.99	5TH	.76	16TH	1.24	25TH	1.54
			75TH	2.72	84TH	3.26	95TH	7.98

PCT. GRAVEL	0.00	SAND	87.26	SILT (PIPETTE)	7.78	CLAY (PIPETTE)	4.95
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 87.26 SILT/(SILT+CLAY) 61.10 PCT.GRAV+SAND/SILT+CLAY 6.85

LABELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-MUDDY SAND

COMMENTS -  
0437A FINE SUSPENSION SMALL AMOUNT

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	.00	.00	
0.00	3.73	3.73	****
0.50	11.19	14.93	*****
1.00	12.44	27.36	*****
1.50	24.88	52.24	*****
2.00	24.88	77.12	*****
2.50	14.30	91.42	*****
3.00	1.87	93.29	**
3.50	1.24	94.53	*
4.00	2.63	97.17	***
8.00	2.83	100.00	***
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

1.85	.74	-.09	-.30
1.91	1.05	.13	1.62

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.95	5TH	.56	16TH	1.04	25TH	1.40
			75TH	2.46	84TH	2.74	95TH	4.71
PCT. GRAVEL	0.00	SAND	94.53	SILT (PIPETTE)	2.63	CLAY (PIPETTE)	2.83	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	94.53	SILT/(SILT+CLAY)	48.16	PCT.GRAV+SAND/SILT+CLAY	17.29			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	.00		
0.00	0.00	.00	
0.50	0.00	.00	
1.00	1.58	.00	**
1.50	16.63	1.58	*****
2.00	53.86	18.22	*****
2.50	23.76	72.08	*****
3.00	2.38	95.84	**
3.50	.79	98.22	*
4.00	.01	99.01	
8.00	.98	99.02	*
*****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

2.31	.40	.14	1.03	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI
2.33	.41	.06	1.13	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.30	5TH	1.60	16TH	1.93	25TH	2.06
			75TH	2.56	84TH	2.75	95TH	2.98
PCT. GRAVEL	0.00	SAND	99.01	SILT (PIPETTE)	.01	CLAY (PIPETTE)	.98	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	99.01	SILT/(SILT+CLAY)	.59	PCT.GRAV+SAND/SILT+CLAY	100.32			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.
- .50	.00	.00
0.00	0.00	.00
.50	3.43	.00
1.00	8.58	3.43
1.50	36.90	12.01
2.00	48.06	48.92
2.50	1.72	96.98
3.00	0.00	98.69
3.50	0.00	98.69
4.00	.24	98.69
8.00	1.06	98.94
*****	100.00	

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MEAN ST.DEV. SKEWNESS KURTOSIS

1.93	.40	-.48	.80
1.98	.41	-.23	.96

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.01	5TH	1.09	16TH	1.55	25TH	1.68
			75TH	2.27	84TH	2.36	95TH	2.48
PCT. GRAVEL	0.00	SAND	98.69	SILT (PIPETTE)	.24	CLAY (PIPETTE)	1.06	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	98.69	SILT/(SILT+CLAY)	18.72	PCT.GRAV+SAND/SILT+CLAY	75.50			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.
-0.50	.00	.00
0.00	0.00	.00
.50	.36	.36
1.00	2.18	.36
1.50	4.73	2.55
2.00	8.01	7.28
2.50	10.92	15.29
3.00	10.92	26.22
3.50	10.92	37.14
4.00	39.59	48.06
8.00	12.35	87.65
*****		100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.83 .74 -.25 -.55

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	4.20	5TH	1.76	16TH	2.53	25TH	2.94
			75TH	6.72	84TH	7.63	95TH	*****

PCT. GRAVEL 0.00 SAND 48.06 SILT (PIPETTE) 39.59 CLAY (PIPETTE) 12.35  
 (SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00

GRAVEL+SAND 48.06 SILT/(SILT+CLAY) 76.23 PCT. GRAV+SAND/SILT+CLAY .93

LABELS SHEPARD -SILTY SAND FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT



04498 SIEVE AND PIPETTE ( 2) SAMP WT=133.8152  
PCT. GRAVEL 0.00 SAND 97.70 SILT (PIPETTE) .47 CLAY (PIPETTE) 1.83  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 97.70 SILT/(SILT+CLAY) 20.52PCT.GRAV+SAND/SILT+CLAY 42.45  
BELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

04508-1  
PCT. GRAVEL 0.00 SAND 98.68 SILT (PIPETTE) .46 CLAY (PIPETTE) .86  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 65.6878  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 98.68 SILT/(SILT+CLAY) 35.02 PCT. GRAV+SAND/SILT+CLAY 74.68  
BELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

0450B-2  
PCT. GRAVEL 0.00 SAND 99.16 SILT (PIPETTE) .27 CLAY (PIPETTE) .56  
SIEVE AND PIPETTE ( 2) SAMP WT= 58.8426  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.16 SILT/(SILT+CLAY) 32.52 PCT.GRAV+SAND/SILT+CLAY 118.60  
BELS SHEPARD -SAND FOLK (GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	.00	.00	
0.00	0.00	.00	
.50	0.00	.00	
1.00	0.00	.00	
1.50	3.35	.00	***
2.00	26.83	30.18	*****
2.50	57.01	87.19	*****
3.00	9.22	96.41	*****
3.50	.84	97.24	*
4.00	2.19	99.43	**
8.00	.57	100.00	*
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

2.63	.35	-.05	.63	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI
2.63	.40	-.06	1.17	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.67	5TH	2.03	16TH	2.24	25TH	2.40
			75TH	2.89	84TH	2.97	95TH	3.42
PCT. GRAVEL	0.00	SAND	97.24	SILT (PIPETTE)	2.19	CLAY (PIPETTE)	.57	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	97.24	SILT/(SILT+CLAY)	79.31	PCT.GRAV+SAND/SILT+CLAY	35.30			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND				(SCS)-SAND		

0456A  
PCT. GRAVEL 0.00 SAND 98.71 SILT (PIPETTE) .12 CLAY (PIPETTE) 1.16  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 35.7849  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 98.71 SILT/(SILT+CLAY) 9.57 PCT. GRAV+SAND/SILT+CLAY 76.79  
ABELS SHEPARD. -SAND FOLK (GMS) -SAND (SCS) -SAND

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	.00	.00	
0.00	.93	.93	*
0.50	8.37	9.30	*****
1.00	10.69	19.99	*****
1.50	26.49	46.48	*****
2.00	31.60	78.08	*****
2.50	13.01	91.10	*****
3.00	1.39	92.49	*
3.50	.46	92.95	
4.00	4.47	97.43	****
8.00	2.57	100.00	***
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

1.93	.62	-.17	-.03
2.03	1.12	.22	2.43

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.06	5TH	.74	16TH	1.31	25TH	1.59
			75TH	2.45	84TH	2.73	95TH	5.83

PCT. GRAVEL 0.00 SAND 92.95 SILT (PIPETTE) 4.47 CLAY (PIPETTE) 2.57 (SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00

GRAVEL+SAND 92.95 SILT/(SILT+CLAY) 63.51PCT.GRAV+SAND/SILT+CLAY 13.19

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

PHI PCT. CUMPCT.

10/25/82

-3.00			*
2.00	1.10	1.10	**
-1.00	1.94	3.04	****
0.00	3.59	6.63	*****
1.00	28.75	35.38	*****
2.00	60.54	95.92	*****
3.00	2.80	98.72	***
4.00	.12	98.84	
8.00	.04	98.88	
*****	1.12	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

1.06	.80	-.87	4.65
1.12	.74	-.31	.98

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.24	5TH	-.45	16TH	.33	25TH	.64
			75TH	1.65	84TH	1.80	95TH	1.98

PCT. GRAVEL	3.04	SAND	95.80	SILT (PIPETTE)	.04	CLAY (PIPETTE)	1.12
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 98.84 SILT/(SILT+CLAY) 3.19 PCT.GRAV+SAND/SILT+CLAY 85.08

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUM PCT.
-0.50	.00	.00
0.00	0.00	.00
.50	0.00	.00
1.00	1.87	.00
1.50	2.81	1.87
2.00	10.77	4.68
2.50	45.43	15.46
3.00	35.60	60.89
3.50	1.87	96.49
4.00	.59	98.36
8.00	1.04	98.96
*****		100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.84	.45	-.53	1.92
2.90	.43	-.05	1.01

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.88	5TH	2.01	16TH	2.51	25TH	2.61
			75TH	3.20	84TH	3.32	95TH	3.48
PCT. GRAVEL	0.00	SAND	98.36	SILT (PIPETTE)	.59	CLAY (PIPETTE)	1.04	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	98.36	SILT/(SILT+CLAY)	36.32	PCT.GRAV+SAND/SILT+CLAY	60.09			
LABELS SHEPARD	-SAND	FOLK (GMS)	-SAND	(SCS)	-SAND			



0464A  
PCT. GRAVEL 0.00 SAND 99.34 SILT (PIPETTE) .34 CLAY (PIPETTE) .32  
SIEVE AND PIPETTE ( 2) SAMP WT= 54.9135  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.34 SILT/(SILT+CLAY) 51.65PCT.GRAV+SAND/SILT+CLAY 149.86  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

04648  
PCT. GRAVEL 0.00 SAND 97.86 SILT (PIPETTE) .11 CLAY (PIPETTE) 2.03  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 71.4244  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 97.86 SILT/(SILT+CLAY) 5.24PCT.GRAV+SAND/SILT+CLAY 45.74  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMPCT.	
- .50	.00	.00	
0.00	1.67	1.67	**
.50	7.08	8.74	*****
1.00	13.74	22.48	*****
1.50	33.31	55.79	*****
2.00	34.97	90.76	*****
2.50	6.66	97.42	*****
3.00	.83	98.25	*
3.50	0.00	98.25	*
4.00	.78	99.03	*
8.00	.97	100.00	*
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

1.84	.56	-.26	.25
1.86	.60	-.14	1.16

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	5TH	16TH	25TH
	1.91	.74	1.26	1.54
		2.27	2.40	2.82

PCT. GRAVEL	0.00	SAND	98.25	SILT (PIPETTE)	.78	CLAY (PIPETTE)	.97
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 98.25 SILT/(SILT+CLAY) 44.74 PCT.GRAV+SAND/SILT+CLAY 56.20

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

04688  
PCT. GRAVEL 0.00 SAND 98.41 SILT (PIPETTE) .56 CLAY (PIPETTE) 1.03  
SIEVE AND PIPETTE ( 2) SAMP WT=119.3783  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 98.41 SILT/(SILT+CLAY) 35.16 PCT. GRAV+SAND/SILT+CLAY 61.83  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

0469A-1  
PCT. GRAVEL 0.00 SAND 98.90 SILT (PIPETTE) .40 CLAY (PIPETTE) .70  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 64.3090  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 98.90 SILT/(SILT+CLAY) 36.16PCT.GRAV+SAND/SILT+CLAY 89.83  
BELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

0469A-2  
PCT. GRAVEL 0.00 SAND 98.96 SILT (PIPETTE) .33 CLAY (PIPETTE) .71  
SIEVE AND PIPETTE ( 2) SAMP WT= 59.4809  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 98.96 SILT/(SILT+CLAY) 31.82PCT.GRAV+SAND/SILT+CLAY 95.56  
BELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

04698  
PCT. GRAVEL 0.00 SAND 98.39 SILT (PIPETTE) .70 CLAY (PIPETTE) .91  
SIEVE AND PIPETTE ( 2) SAMP WT= 72.4356  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 98.39 SILT/(SILT+CLAY) 43.30 PCT.GRAV+SAND/SILT+CLAY 61.23  
BELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

0471A SIEVE AND PIPETTE ( 2 ) SAMP WT= 36.0968  
PCT. GRAVEL 0.00 SAND 99.07 SILT (PIPETTE) .22 CLAY (PIPETTE) .71  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 99.07 SILT/(SILT+CLAY) 23.81PCT.GRAV+SAND/SILT+CLAY 106.43  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND





PHI PCT. CUMPCT.

10/25/82

-1.00		
0.00	.02	.02
1.00	9.32	9.34
2.00	88.29	97.63
3.00	1.12	98.75
4.00	.19	98.94
8.00	.17	99.11
*****	.89	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

1.42 .33 -.60 7.50

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

1.46 .41 -.14 1.04

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	1.46	5TH	.53	16TH	1.08	25TH	1.18
			75TH	1.74	84TH	1.85	95TH	1.97

PCT. GRAVEL	0.00	SAND	98.94	SILT (PIPETTE)	.17	CLAY (PIPETTE)	.89
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 98.94 SILT/(SILT+CLAY) 15.89 PCT.GRAV+SAND/SILT+CLAY 93.51

ABELS SHEPARD -SAND

FOLK(GMS)-SAND

(SCS)-SAND

0475B  
PCT. GRAVEL 0.00 SAND 97.30 SILT (PIPETTE) .27 CLAY (PIPETTE) 2.43  
SIEVE AND PIPETTE ( 2 ) SAMP WT= 62.2980  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 97.30 SILT/(SILT+CLAY) 9.98 PCT. GRAV+SAND/SILT+CLAY 35.99  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND



0478A  
PCT. GRAVEL 0.00 SAND 97.41 SILT (PIPETTE) 1.16 CLAY (PIPETTE) 1.43  
SIEVE AND PIPETTE ( 2) SAMP WT= 49.3397  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 97.41 SILT/(SILT+CLAY) 44.69 PCT. GRAV+SAND/SILT+CLAY 37.55  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

04798  
PCT. GRAVEL 0.00 SAND 98.73 SIEVE AND PIPETTE( 2) SAMP WT= 56.5929  
SILT (PIPETTE) .70 CLAY (PIPETTE) .57  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
GRAVEL+SAND 98.73 SILT/(SILT+CLAY) 55.31PCT.GRAV+SAND/SILT+CLAY 78.04  
ABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMFCT.
-1.00		
.50	.16	.16
0.00	0.00	.16
.50	.17	.34
1.00	.17	.51
1.50	.52	1.02
2.00	.69	1.71
2.50	.86	2.57
3.00	.86	3.43
3.50	1.20	4.63
4.00	1.03	5.66
8.00	44.31	49.97
*****	50.03	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.47 1.09 -.45 .49 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -.5 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN 14.07	5TH 3.68	16TH 4.93	25TH 5.75
		75TH*****	84TH*****	95TH*****
PCT. GRAVEL	0.00	SAND 5.66	SILT (PIPETTE) 44.31	CLAY (PIPETTE) 50.03
			(SEDIGRAPH) 0.00	(SEDIGRAPH) 0.00
GRAVEL+SAND	5.66	SILT/(SILT+CLAY)	46.97	PCT.GRAV+SAND/SILT+CLAY .06
LABELS SHEPARD	-SILTY CLAY	FOLK(GMS)-MUD		(SCS)-MUD

10/25/82

PHI	PCT.	CUMPCT.
- .50	0.00	
0.00	0.00	0.00
.50	0.00	0.00
1.00	0.00	0.00
1.50	0.00	0.00
2.00	.28	.28
2.50	.28	.56
3.00	.42	.99
3.50	.99	1.97
4.00	2.25	4.22
8.00	53.14	57.36
*****	42.64	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

3.30 .61 -.65 .58

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	7.45	5TH	4.06	16TH	4.89	25TH	5.56
			75TH*****		84TH*****		95TH*****	
PCT. GRAVEL	0.00	SAND	4.22	SILT (PIPETTE)	53.14	CLAY (PIPETTE)	42.64	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	4.22	SILT/(SILT+CLAY)	55.48	PCT.GRAV+SAND/SILT+CLAY			.04	
LABELS SHEPARD	-CLAYEY	SILT FOLK(GMS)-MUD				(SCS)-MUD		

COMMENTS - J045 S.T. SAMPLE ALMOST AL ORGANIC MATERIAL

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10/25/82

PHI	PCT.	CUMFCT.
-0.50	0.00	
0.00	0.00	0.00
0.50	0.00	0.00
1.00	0.00	0.00
1.50	0.00	0.00
2.00	.17	.17
2.50	.17	.34
3.00	.51	.85
3.50	.68	1.53
4.00	2.21	3.74
8.00	62.70	66.44
*****	33.56	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

3.36 .56 -.71 1.10

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	6.95	5TH	4.08	16TH	4.78	25TH	5.36
			75TH*****		84TH*****		95TH*****	
PCT. GRAVEL	0.00	SAND	3.74	SILT (PIPETTE)	62.70	CLAY (PIPETTE)	33.56	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	3.74	SILT/(SILT+CLAY)	65.13	PCT.GRAV+SAND/SILT+CLAY			.04	
LABELS SHEPARD	-CLAYEY	SILT FOLK(GMS)-MUD				(SCS)-MUD		

COMMENTS - J047 S.T. MUCH ORGANIC MATERIAL

10/25/82

PHI	PCT.	CUMPCT.	
- .50	0.00	0.00	
.00	0.00	0.00	
.50	0.00	0.00	
1.00	0.00	0.00	
1.50	2.24	0.00	**
2.00	1.12	2.24	*
2.50	.75	3.36	*
3.00	4.47	4.10	****
3.50	9.69	8.58	*****
4.00	59.09	18.27	*****
8.00	22.64	77.36	*****
*****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

3.25      .69      -.62      .12      KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	6.15	5TH	3.10	16TH	3.83	25TH	4.46
			75TH	7.84	84TH	*****	95TH	*****
PCT. GRAVEL	0.00	SAND	18.27	SILT (PIPETTE)	59.09	CLAY (PIPETTE)	22.64	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	

GRAVEL+SAND 18.27      SILT/(SILT+CLAY) 72.30PCT.GRAV+SAND/SILT+CLAY .22  
 LABELS SHEPARD -CLAYEY SILT FOLK(GMS)-SANDY MUD      (SCS)-SANDY SILT

COMMENTS -  
 J048      S.T. SOME ORGANIC MATERIAL

10/25/82

PHI	PCT.	CUMPCT.
-0.50	0.00	0.00
0.00	0.00	0.00
0.50	0.00	0.00
1.00	0.00	0.00
1.50	3.58	3.58
2.00	25.09	28.68
2.50	59.75	88.43
3.00	9.56	97.99
3.50	0.00	97.99
4.00	0.00	97.99
4.50	1.40	99.39
5.00	.61	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.13 .33 -.22 .38

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

2.13 .38 -.10 1.17

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.18	5TH	1.53	16TH	1.75	25TH	1.93
			75TH	2.39	84TH	2.45	95TH	2.84

PCT. GRAVEL	0.00	SAND	97.99	SILT (PIPETTE)	1.40	CLAY (PIPETTE)	.61
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 97.99 SILT/(SILT+CLAY) 69.61PCT.GRAV+SAND/SILT+CLAY 48.71

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMFCT.
- .50	0.00	0.00
0.00	0.00	0.00
.50	.32	.32
1.00	.32	.64
1.50	5.74	6.38
2.00	29.36	35.74
2.50	61.27	97.02
3.00	1.28	98.29
3.50	0.00	98.29
4.00	1.04	99.33
8.00	.67	100.00
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MEAN ST.DEV. SKEWNESS KURTOSIS

2.54 .33 -.68 2.73

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

2.56 .35 -.29 .90

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.62	5TH	1.88	16TH	2.16	25TH	2.32
			75TH	2.82	84TH	2.89	95TH	2.98

PCT. GRAVEL	0.00	SAND	98.29	SILT (PIPETTE)	1.04	CLAY (PIPETTE)	.67
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 98.29 SILT/(SILT+CLAY) 60.85PCT.GRAV+SAND/SILT+CLAY 57.64

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMPCT.
-0.50	0.00	0.00
0.00	.48	.48
.50	.48	.96
1.00	6.74	7.70
1.50	12.52	20.22
2.00	31.78	52.00
2.50	24.07	76.07
3.00	3.85	79.92
3.50	.96	80.89
4.00	12.75	93.64
8.00	6.36	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.28 .55 -.22 .74

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	2.47	5TH	1.30	16TH	1.83	25TH	2.08
			75TH	2.98	84TH	4.98	95TH	*****

PCT. GRAVEL 0.00 SAND 80.89 SILT (PIPETTE) 12.75 CLAY (PIPETTE) 6.36  
 (SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00

GRAVEL+SAND 80.89 SILT/(SILT+CLAY) 66.72PCT.GRAV+SAND/SILT+CLAY 4.23

LABELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	0.00	0.00	
0.00	1.10	1.10	*
0.50	2.19	3.29	**
1.00	8.77	12.06	*****
1.50	23.02	35.08	*****
2.00	28.50	63.58	*****
2.50	20.83	84.41	*****
3.00	6.58	90.99	*****
3.50	3.29	94.28	***
4.00	4.54	98.81	*****
8.00	1.19	100.00	*
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

2.21	.67	-.04	.21
2.28	.89	.19	1.46

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.26	5TH	1.10	16TH	1.59	25TH	1.78
			75TH	2.77	84TH	2.99	95TH	4.64

PCT. GRAVEL	0.00	SAND	94.28	SILT (PIPETTE)	4.54	CLAY (PIPETTE)	1.19
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 94.28 SILT/(SILT+CLAY) 79.26PCT.GRAV+SAND/SILT+CLAY 16.47

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND

10/25/82

PHI	PCT.	CUMPCT.	
-2.50			
2.00	.62	.62	*
-1.50	.19	.81	
-1.00	.72	1.53	*
-.50	.83	2.36	*
0.00	.52	2.88	*
.50	.52	3.39	*
1.00	2.06	5.46	**
1.50	5.16	10.62	*****
2.00	9.29	19.91	*****
2.50	30.97	50.88	*****
3.00	26.84	77.73	*****
3.50	3.10	80.83	***
4.00	3.10	83.92	***
8.00	13.29	97.22	*****
*****	2.78	97.22	***
		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

2.22	.89	-1.06	7.16
2.77	1.53	.44	3.05

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.49	5TH	.89	16TH	1.79	25TH	2.08
			75TH	2.95	84TH	4.02	95TH	7.33
PCT. GRAVEL	1.53	SAND	82.39	SILT (PIPETTE)	13.29	CLAY (PIPETTE)	2.78	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	83.92	SILT/(SILT+CLAY)	82.68	PCT.GRAV+SAND/SILT+CLAY	5.22			
LABELS SHEPARD	-SAND	FOLK(GMS)-MUDDY SAND		(SCS)-SILTY SAND				



10/25/82

PHI	PCT.	CUMPCT.
-0.50	0.00	0.00
0.00	0.00	0.00
0.50	0.00	0.00
1.00	0.00	0.00
1.50	.94	.94
2.00	.94	1.88
2.50	4.70	6.58
3.00	13.16	19.75
3.50	31.03	50.77
4.00	15.98	66.76
4.50	26.24	93.00
5.00	7.00	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

3.15 .51 -.57 1.82

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	3.49	5TH	2.33	16TH	2.85	25TH	3.08
			75TH	5.26	84TH	6.63	95TH	*****

PCT. GRAVEL 0.00 SAND 66.76 SILT (PIPETTE) 26.24 CLAY (PIPETTE) 7.00  
 (SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00

GRAVEL+SAND 66.76 SILT/(SILT+CLAY) 78.94PCT.GRAV+SAND/SILT+CLAY 2.01

LABELS SHEPARD -SILTY SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

10/25/82

PHI	PCT.	CUMFCT.	
-3.00			
2.50	7.76	7.76	*****
-2.00	1.21	8.98	*
-1.50	1.04	10.02	*
-1.00	1.34	11.36	*
-.50	.40	11.76	
0.00	0.00	11.76	
.50	.96	12.72	*
1.00	8.62	21.34	*****
1.50	10.54	31.87	*****
2.00	15.33	47.20	*****
2.50	22.03	69.23	*****
3.00	22.99	92.22	*****
3.50	2.87	95.10	***
4.00	.48	95.57	
8.00	3.03	98.61	***
*****	1.39		*
		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

1.49	1.61	-.82	1.77
1.86	1.47	-.41	1.74

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE -2.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.06	5TH	-2.68	16TH	.69	25TH	1.17
			75TH	2.63	84TH	2.82	95TH	3.48
PCT. GRAVEL	11.36	SAND	84.22	SILT (PIPETTE)	3.03	CLAY (PIPETTE)		1.39
				(SEDIGRAPH)	0.00	(SEDIGRAPH)		0.00
GRAVEL+SAND	95.57	SILT/(SILT+CLAY)	68.52	PCT.GRAV+SAND/SILT+CLAY				21.60
LABELS SHEPARD	-SAND		FOLK(GMS)-GRAVELLY SAND			(SCS)-		



10/25/82

PHI	PCT.	CUMPCT.	
-3.00			
2.50	4.33	4.33	****
-2.00	2.66	6.98	***
-1.50	2.96	9.94	***
-1.00	1.84	11.78	**
-0.50	1.23	13.01	*
0.00	1.29	14.31	*
.50	1.29	15.60	*
1.00	1.29	16.89	*
1.50	2.59	19.48	***
2.00	5.18	24.66	*****
2.50	18.12	42.78	*****
3.00	44.00	86.77	*****
3.50	9.06	95.83	*****
4.00	0.00	95.83	
8.00	2.78	98.61	***
****	1.39		*
****		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

1.86	1.67	-.88	1.71	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.5 TO 4.0 PHI
2.07	1.46	-.68	2.79	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.58	5TH	-2.37	16TH	.65	25TH	2.01
			75TH	2.87	84TH	2.97	95TH	3.45
PCT. GRAVEL	11.78	SAND	84.05	SILT (PIPETTE)	2.78	CLAY (PIPETTE)		1.39
				(SEDIGRAPH)	0.00	(SEDIGRAPH)		0.00
GRAVEL+SAND	95.83	SILT/(SILT+CLAY)	66.74	PCT.GRAV+SAND/SILT+CLAY				23.00
LABELS SHEPARD	-SAND		FOLK(GMS)-GRAVELLY SAND			(SCS)-		



10/25/82

PHI	PCT.	CUMPCT.	
- .50	0.00	0.00	
.00	0.00	0.00	
.50	.60	0.60	*
1.00	2.99	3.59	***
1.50	5.98	9.57	*****
2.00	4.79	14.36	*****
2.50	19.15	33.50	*****
3.00	55.64	89.14	*****
3.50	4.19	93.33	****
4.00	4.97	98.31	*****
8.00	1.69	100.00	**
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

2.94	.58	-.81	2.25	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI
3.05	.79	-.08	2.56	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	3.15	5TH	1.62	16TH	2.54	25TH	2.78
			75TH	3.37	84TH	3.45	95TH	5.34
PCT. GRAVEL	0.00	SAND	93.33	SILT (PIPETTE)	4.97	CLAY (PIPETTE)	1.69	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	93.33	SILT/(SILT+CLAY)	74.58	PCT.GRAV+SAND/SILT+CLAY	14.00			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.	
-2.50	1.21	1.21	*
2.00	2.18	3.39	**
-1.50	8.69	12.08	*****
-1.00	11.10	23.18	*****
-.50	1.67	24.85	**
0.00	36.74	61.59	*****
.50	18.37	79.96	*****
1.00	11.69	91.65	*****
1.50	3.34	94.99	***
2.00	1.25	96.24	*
2.50	1.25	97.50	*
3.00	.84	98.33	*
3.50	0.00	98.33	
4.00	1.09	99.43	*
8.00	.57	100.00	*
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

.27 .96 -.02 .57  
 .23 1.02 -.10 1.62

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE -2.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES MEDIAN .34 5TH -1.41 16TH -.82 25TH .00  
 75TH .86 84TH 1.17 95TH 2.00  
 PCT. GRAVEL 12.08 SAND 85.25 SILT (PIPETTE) 1.09 CLAY (PIPETTE) .57  
 (SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00  
 GRAVEL+SAND 98.33 SILT/(SILT+CLAY) 65.63 PCT.GRAV+SAND/SILT+CLAY 58.96  
 LABELS SHEPARD -SAND FOLK(GMS)-GRAVELLY SAND (SCS)-

10/25/82

PHI	PCT.	CUMPCT.
- .50	0.00	0.00
.00	3.69	3.69
.50	2.46	6.15
1.00	3.69	9.83
1.50	22.12	31.95
2.00	50.39	82.34
2.50	13.52	95.86
3.00	1.23	97.09
3.50	0.00	97.09
4.00	1.71	98.81
8.00	1.19	100.00
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MEAN ST.DEV. SKEWNESS KURTOSIS

2.07	.56	-.68	2.60
2.13	.56	-.23	1.54

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 0.0 TO 4.0 PHI  
FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.18	5TH	.77	16TH	1.64	25TH	1.84
			75TH	2.43	84TH	2.55	95TH	2.97
PCT. GRAVEL	0.00	SAND	97.09	SILT (PIPETTE)	1.71	CLAY (PIPETTE)	1.19	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	97.09	SILT/(SILT+CLAY)	58.94	PCT.GRAV+SAND/SILT+CLAY	33.38			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				



10/25/82

PHI	PCT.	CUMPCT.	
-2.50			*****
2.00	5.71	5.71	*
-1.50	1.14	6.84	**
-1.00	2.25	9.09	*
-.50	.57	9.67	*
0.00	.56	10.23	****
.50	3.90	14.13	*****
1.00	10.03	24.16	*****
1.50	17.83	41.99	*****
2.00	37.89	79.87	*****
2.50	14.49	94.36	**
3.00	2.23	96.59	*
3.50	1.11	97.70	*
4.00	.22	97.93	**
8.00	1.59	99.52	
*****	.48	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

1.25	1.19	-.85	2.59	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.0 TO 4.0 PHI
1.45	1.10	-.43	2.11	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	1.61	5TH	-2.06	16TH	.59	25TH	1.02
			75TH	1.94	84TH	2.14	95TH	2.64
PCT. GRAVEL	9.09	SAND	88.83	SILT (PIPETTE)	1.59	CLAY (PIPETTE)		.48
				(SEDIGRAPH)	0.00	(SEDIGRAPH)		0.00
GRAVEL+SAND	97.93	SILT/(SILT+CLAY)	76.63	PCT.GRAV+SAND/SILT+CLAY				47.24
LABELS SHEPARD	-SAND	FOLK(GMS)-GRAVELLY SAND		(SCS)-				



10/25/82

PHI	PCT.	CUMPCT.	
-4.00	3.45		***
-3.50	4.53	3.45	*****
-3.00	8.44	7.98	*****
-2.50	7.33	16.42	*****
-2.00	14.12	23.75	*****
-1.50	12.07	37.88	*****
-1.00	8.22	49.95	*****
-.50	7.64	58.16	*****
0.00	7.52	65.80	*****
.50	11.12	73.33	*****
1.00	8.53	84.44	*****
1.50	4.48	92.97	****
2.00	1.58	97.45	**
2.50	.62	99.03	*
3.00	.28	99.64	
3.50	.05	99.92	
4.00	.03	99.97	
*****		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-.80	1.58	.05	-.87
-.85	1.64	.10	.82

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE -3.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN -1.00	5TH -3.33	16TH -2.52	25TH -1.96
		75TH .58	84TH .98	95TH 1.73

PCT. GRAVEL	49.95	SAND	50.03	SILT+CLAY	.03
GRAVEL+SAND	99.97			GRAV+SAND/SILT+CLAY	3699.40
LABELS SHEPARD	-SAND	FOLK(GMS)-SANDY GRAVEL		(SCS)-	

10/25/82

PHI	PCT.	CUMPCT.	
-4.00			
2.07			**
2.50	2.07		***
-3.00	2.97	5.04	***
-2.50	2.73	7.77	***
-2.00	3.17	10.94	***
-1.50	10.66	21.59	*****
-1.00	10.85	32.45	*****
-.50	11.12	43.56	*****
0.00	9.09	52.65	*****
.50	7.52	60.17	*****
1.00	16.99	77.16	*****
1.50	12.47	89.63	*****
2.00	7.26	96.89	*****
2.50	2.45	99.34	**
3.00	.52	99.86	*
3.50	.09	99.95	
4.00	.03	99.98	
****	.02	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

-.25 1.47 -.17 -.60

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

-.21 1.50 -.12 .88

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	5TH	16TH	25TH
	-.15	-3.01	-1.76	-1.34
		.94	1.27	1.87

PCT. GRAVEL 32.45 SAND 67.53 SILT+CLAY .02

GRAVEL+SAND 99.98 GRAV+SAND/SILT+CLAY 4966.33

LABELS SHEPARD -SAND FOLK(GMS)-SANDY GRAVEL (SCS)-

10/25/82

PHI	PCT.	CUM PCT.	
-0.50	1.07	1.07	*
0.00	1.07	2.14	*
0.50	0.53	2.67	*
1.00	1.60	4.27	**
1.50	5.34	9.62	*****
2.00	10.68	20.30	*****
2.50	26.71	47.01	*****
3.00	23.50	70.51	*****
3.50	11.75	82.27	*****
4.00	15.78	98.05	*****
8.00	1.95	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

2.79      .76      -.74      3.29  
3.27      1.39      .38      2.10

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 0.0 TO 4.0 PHI  
FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES      MEDIAN 3.06      5TH 1.57      16TH 2.30      25TH 2.59  
75TH 3.69      84TH 4.44      95TH 7.23

PCT. GRAVEL 0.00 SAND 82.27 SILT (PIPETTE) 15.78 CLAY (PIPETTE) 1.95  
(SEDIGRAPH) 0.00 (SEDIGRAPH) 0.00

GRAVEL+SAND 82.27 SILT/(SILT+CLAY) 88.98 PCT.GRAV+SAND/SILT+CLAY 4.64  
LABELS SHEPARD -SAND FOLK(GMS)-MUDDY SAND (SCS)-SILTY SAND

10/25/82

PHI	PCT.	CUMPCT.
-4.00		
3.50	10.15	10.15
-3.00	24.99	35.14
-2.50	5.88	41.02
-2.00	2.52	43.55
-1.50	2.04	45.58
-1.00	2.11	47.70
-.50	2.27	49.97
0.00	.73	50.69
.50	23.93	74.62
1.00	15.23	89.84
1.50	5.08	94.92
2.00	1.45	96.37
2.50	.73	97.09
3.00	.73	97.82
3.50	.36	98.18
4.00	0.00	98.18
8.00	1.52	99.71
***	.29	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

-1.20	1.94	-.00	-1.59
-1.02	1.85	-.31	.58

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -3.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	-.48	5TH	-3.75	16TH	-3.38	25TH	-3.20
			75TH	.51	84TH	.81	95TH	1.53
PCT. GRAVEL	47.70	SAND	50.49	SILT (PIPETTE)	1.52	CLAY (PIPETTE)	.29	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	98.18	SILT/(SILT+CLAY)	83.81		PCT.GRAV+SAND/SILT+CLAY	54.00		
LABELS SHEPARD	-SAND	FOLK(GMS)-SANDY GRAVEL		(SCS)-				

10/25/82

PHI	PCT.	CUMPCT.
- .50	0.00	0.00
0.00	0.00	0.00
.50	0.00	0.00
1.00	0.00	0.00
1.50	2.74	2.74
2.00	15.53	18.27
2.50	55.73	74.01
3.00	19.64	93.65
3.50	2.28	95.93
4.00	0.00	95.93
4.50	0.00	95.93
5.00	0.00	95.93
5.50	0.00	95.93
6.00	.90	96.84
6.50	1.81	98.64
7.00	1.36	100.00
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MEAN ST.DEV. SKEWNESS KURTOSIS

2.87	.73	1.77	16.26
2.82	.47	.15	1.52

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 7.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.78	5TH	2.07	16TH	2.43	25TH	2.56
			75TH	3.03	84TH	3.25	95TH	3.80
PCT. GRAVEL	0.00	SAND	95.93	SILT (PIPETTE)	4.07	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	4.07	(SEDIGRAPH)	0.00	
GRAVEL+SAND	95.93	SILT/(SILT+CLAY)	100.00	PCT.GRAV+SAND/SILT+CLAY	23.59			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SCS)-SAND				





10/25/82

PHI	PCT.	CUMPCT.
-0.50	0.00	0.00
0.00	0.00	0.00
0.50	1.17	1.17
1.00	1.17	2.35
1.50	4.70	7.04
2.00	2.35	9.39
2.50	8.22	17.61
3.00	34.05	51.66
3.50	22.31	73.97
4.00	23.42	97.38
8.00	2.62	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

3.15	.66	-.82	2.60
4.03	1.58	.50	2.23

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	3.48	5TH	1.78	16TH	2.90	25TH	3.11
			75TH	4.18	84TH	5.71	95TH	7.59
PCT. GRAVEL	0.00	SAND	73.97	SILT (PIPETTE)	23.42	CLAY (PIPETTE)	2.62	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	73.97	SILT/(SILT+CLAY)	89.96PCT.GRAV+SAND/SILT+CLAY			2.84		
LABELS SHEPARD	-SILTY SAND			FOLK(GMS)-MUDDY SAND	(SCS)-SILTY SAND			

10/25/82

PHI	PCT.	CUM PCT.	
-3.00			
2.50	1.11	1.11	*
-2.00	2.74	3.85	***
-1.50	.57	4.42	*
-1.00	.72	5.14	*
-.50	.63	5.77	*
0.00	0.00	5.77	
.50	2.30	8.07	**
1.00	2.30	10.37	**
1.50	2.30	12.68	**
2.00	2.30	14.98	**
2.50	5.76	20.74	*****
3.00	29.95	50.69	*****
3.50	44.92	95.61	*****
4.00	2.30	97.91	**
8.00	1.86	99.77	**
*****	.23	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

2.53	1.33	-1.28	6.08	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.5 TO 4.0 PHI
2.82	1.02	-.59	2.69	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.99	5TH	-1.10	16TH	2.09	25TH	2.57
			75TH	3.27	84TH	3.37	95TH	3.49
PCT. GRAVEL	5.14	SAND	92.77	SILT (PIPETTE)	1.86	CLAY (PIPETTE)		.23
				(SEDIGRAPH)	0.00	(SEDIGRAPH)		0.00
GRAVEL+SAND	97.91	SILT/(SILT+CLAY)	88.82	PCT.GRAV+SAND/SILT+CLAY	46.82			
LABELS SHEPARD	-SAND	FOLK(GMS)-GRAVELLY SAND		(SCS)-				

**APPENDIX 8**

**Jet Data**

STATION NO.	DATE	UTM		DEPTH, M (IGLD)	DEPTH TO REFUSAL, M	NOTES
		NORTHING	EASTING			
J044	20-07-72	4830355	622553	5.3	0.10	BOTTOMED IN EXTREMELY STIFF GLACIAL? CLAY. SHIPEK RECOVERED FRAGMENT OF STIFF CLAY.
J045	20-07-72	4829388	623771	19.8	1.00	BOTTOMED IN VERY STIFF GLACIAL SEDIMENT. SHIPEK RECOVERED 1/2 BUCKET OF SILTY CLAY.
J046	20-07-72	4831965	623733	3.3	2.00	BOUNCING DURING PENETRATION. APPARENTLY BOTTOMED ON GRAVEL. SHIPEK RECOVERED 1/2 BUCKET OF MEDIUM-FINE SAND.
J047	20-07-72	4831022	624891	13.3	1.00	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED A FULL BUCKET OF SILTY CLAY WITH NUMEROUS CHIRONOMIDS.
J048	20-07-72	4830160	625934	18.8	2.00	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1 CM OF SILTY CLAY WITH ORGANIC MATTER.
J049	20-07-72	4831487	626636	6.0	0.00	BEDROCK EXPOSED. NO SHIPEK SAMPLE.
J050	20-07-72	4830917	628052	9.3	0.00	BEDROCK AT SURFACE. SHIPEK RECOVERED ROCK SLAB.
J051	20-07-72	4831257	629002	0.8	2.50	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/2 BUCKET OF FINE-MEDIUM SAND.
J052	19-07-72	4829791	629705			NO JET OR SAMPLE DATA. STATION ABANDONNED BECAUSE OF POSITIONING PROBLEMS.
J053	19-07-72	4831291	629096	2.8	11.75	BOUNCED DURING PENETRATION. BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/2 BUCKET OF SILTY SAND.
J054	19-07-72	4829133	631509	12.8	3.00	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/2 BUCKET OF SILTY SAND.

STATION NO.	DATE	UTM		DEPTH, M (IGLD)	DEPTH TO REFUSAL, M	NOTES
		NORTHING	EASTING			
J055	19-07-72	4830960	632327	6.3	7.25	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/4 BUCKET OF SILTY SAND.
J056	19-07-72	4829652	633731	15.3	6.25	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 3 CM OF SILTY SAND WITH CINDER FRAGMENTS AND CLAMSHELLS.
J057	19-07-72	4831317	634713	12.3	4.00	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/2 BUCKET OF SILTY SAND WITH SHELL FRAGMENTS.
J058	19-07-72	4830394	635675	21.3	7.25	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/2 BUCKET OF MEDIUM SAND WITH PEBBLES.
J059	18-07-72	4832847	635840	8.6	4.75	PENETRATED THROUGH GRAVEL. BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/4 BUCKET OF FINE SAND WITH SOME ORGANIC MATTER.
J060	19-07-72	4831582	637136	21.3	4.25	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/3 BUCKET OF FINE-MEDIUM SAND
J061	18-07-72	4835075	636257	2.6	2.25	BOTTOMED ON BOULDERS. SHIPEK RECOVERED 1/2 BUCKET OF FINE SAND WITH TWO CHIRONOMIDS.
J062	18-07-72	4834187	637164	8.3	7.75	PENETRATED WITH BOUNCING TO BEDROCK. SHIPEK RECOVERED 1/4 BUCKET OF FINE SAND.
J063	18-07-72	4832997	638363	16.1	4.25	BOTTOMED ON BEDROCK. SHIPEK RECOVERED FULL BUCKET OF VERY COARSE SAND AND GRAVEL.
J064	18-07-72	4836123	637887	3.0	.50	BOUNCED DURING PENETRATION. BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/4 BUCKET OF FINE SAND WITH ORGANIC MATTER.

STATION NO.	DATE	UTM		DEPTH, M (IGLD)	DEPTH TO REFUSAL, M	NOTES
		NORTHING	EASTING			
J065	18-07-72	4834890	639117	14.2	4.50	BOTTOMED IN STICKY GLACIAL SEDIMENT. SHIPEK RECOVERED FINE-MEDIUM SAND WITH A FEW CHIRONOMIDS.
J066	18-07-72	4833709	640279	18.6	6.25	PENETRATION WITH BOUNCING TO BEDROCK. NO SHIPEK RECOVERY IN 5 ATTEMPTS.
J067	18-07-72	4837316	639361	1.8	1.75	BOUNCED DURING PENETRATION. BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 3/4 BUCKET OF FINE SAND WITH A FEW PEBBLES.
J068	18-07-72	4836217	640439	15.9	3.25	BOTTOMED ON BEDROCK. SHIPEK RECOVERED FULL BUCKET OF COARSE SAND AND GRAVEL.
J069	18-07-72	4835302	641327	19.6	5.25	BOTTOMED ON BEDROCK. BOUNCED NEAR SURFACE. SHIPEK RECOVERED FULL BUCKET OF COARSE SAND AND GRAVEL.
J070	17-07-72	4839464	641214	1.8	.50	BOTTOMED ON BOULDERS. SHIPEK RECOVERED 1/4 BUCKET OF FINE SAND.
J071	17-07-72	4838481	642156	11.3	2.25	PENETRATED WITH BOUNCING TO BEDROCK. SHIPEK RECOVERED 1/2 BUCKET OF COARSE SAND WITH SHELLS.
J072	17-07-72	4837487	643101	11.3	.50	BOTTOMED ON BEDROCK. SHIPEK RECOVERED 1/2 BUCKET OF COARSE SAND AND GRAVEL.
J073	17-07-72	4841621	643062	2.0	.33	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/4 BUCKET OF FINE SAND.
J074	17-07-72	4840710	643916	12.8	0.00	NO PENETRATION. BOTTOM TYPE UNCERTAIN. NO SHIPEK RECOVERY.
J075	17-07-72	4839431	645107	18.8	1.50	BOTTOM TYPE UNCERTAIN. NO SHIPEK RECOVERY.

STATION NO.	DATE	UTM		DEPTH, M (IGLD)	DEPTH TO REFUSAL, M	NOTES
		NORTHING	EASTING			
J076	17-07-72	4852460	653724	2.0	6.00	BOTTOMED ON BEDROCK. PENETRATED WITH BOUNCING THROUGH BOULDER LAYER AT 3 M. SHIPEK RECOVERED 1/2 BUCKET OF FINE SAND.
J077	17-07-72	4850233	654236	15.8	1.25	BOTTOMED IN GLACIAL SEDIMENT. SHIPEK RECOVERED 1/2 BUCKET OF COARSE SAND AND SHELL FRAGMENTS.
J078	17-07-72	4852659	657687	5.8	1.50	BOTTOMED ON BEDROCK. SHIPEK RECOVERED 3 CM OF SILTY SAND WITH MUCH ORGANIC MATTER.
J079	17-07-72	4854179	661539	2.5	.50	BOTTOMED ON GLACIAL TILL. SHIPEK RECOVERED 1/2 BUCKET OF SILTY SAND WITH PEBBLES AND SHELLS.

**APPENDIX 9**

Core Sites

(Map Under Separate Cover)



**APPENDIX 10**

Core Logs

KEY TO SEDIMENT CORE LOGS

CORE:	/LAKE	CORE TYPE:
DATE:		LENGTH:
UTM N:	E:	IGLD DEPTH:
PHOTOS:	SLIDES-	LOGGED BY:
	X-RAY-	DATE:

UNIT 1:

STANDARD ORDER OF PROPERTIES IS AS FOLLOWS:

- COLOUR
- CONSISTENCY
- TEXTURE
- STRUCTURE
- COMPOSITION- SHELLS
  - MINERALOGY/PETROLOGY
- HCL REACTION
- AVAILABILITY OF GRAIN-SIZE DATA
- AVAILABILITY OF POLLEN DATA
- OTHER COMMENTS

SEDIMENT CORE LOG

CORE: C01 /LAKE ONTARIO

CORE TYPE: BENTHOS

DATE: 13 JULY, 1972

LENGTH: 18 CM

UTM N: 4830103 E: 622897

IGLD DEPTH: 6.8 M

PHOTOS: SLIDES- NO

LOGGED BY: G. LAHAIE

X-RAY- YES

DATE: 4 JUNE 1973

UNIT 1: 0-1 CM

- OOZE
- SANDY SILT
- MODERATE EFFERVESCENCE IN HCL WITH H<sub>2</sub>S ODOUR
- SIZE DATA AVAILABLE FOR 0-9.5 CM INTERVAL
- POLLEN DATA AVAILABLE FOR 0-2 CM INTERVAL

UNIT 2: 1-9.5 CM

- OLIVE GREY (5Y 4/2)
- SOFT
- SILTY FINE SAND
- PEAT LAMINAE AT 8.5 AND 9.5 CM
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- SIZE DATA AVAILABLE FOR THE 0-9.5 CM INTERVAL
- POLLEN DATA AVAILABLE FOR THE 0-2, 2-4, AND 4-8 CM INTERVALS

UNIT 3: 9.5-13.5 CM

- OLIVE GREY (5Y 5/2)
- SOFT
- SILTY FINE SAND
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- SIZE DATA AVAILABLE FOR THE 9.5-17.5 CM INTERVAL

UNIT 4: 13.5-16 CM

- BLACK (5Y 2.5/1)
- SOFT
- SILTY FINE SAND
- HIGH CONCENTRATION OF HEAVY MINERALS
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- SIZE DATA AVAILABLE FOR THE 9.5-17.5 CM INTERVAL

UNIT 5: 16-17.5 CM

- OLIVE GRAY (5Y 4/2)
- SOFT
- SILTY FINE SAND
- CONCENTRATION OF HEAVY MINERALS AT BASE OF UNIT
- SIZE DATA AVAILABLE FOR 9.5-17.5 CM INTERVAL

UNIT 6: 17.5-18 CM

- OLIVE GREY (5Y 4/2)
- STIFF
- SILTY CLAY
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- SIZE DATA (SEDIGRAPH ONLY) AVAILABLE

SEDIMENT CORE LOG

CORE: C02 /LAKE ONTARIO

CORE TYPE: BENTHOS

DATE: 16 JULY 1972

LENGTH: 51.5 CM

UTM N: 4830116 E: 626010

IGLD DEPTH: 17.8 M

PHOTOS: SLIDES- NO

LOGGED BY: B. HAWKINS/G. LAHAIE

X-RAY- YES

DATE: 4 JUNE 1973

UNIT 1: 0-4.5 CM

- DARK OLIVE GREY (5Y 3/2)
- OOZE
- SILTY CLAY
- WEAK TO MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE (SEDIGRAPH ONLY)
- POLLEN DATA AVAILABLE FOR 0-2 CM AND 4-6 CM INTERVALS

UNIT 2: 4.5-12 CM

- BLACK (5Y 2.5/1)
- SOFT
- CLAYEY SILT
- LAMINATED
- WEAK TO MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE
- POLLEN DATA AVAILABLE FOR 4-6 CM AND 10-12 CM INTERVALS

UNIT 3: 12-41.5 CM

- DARK GREY (5Y 4/1)
- SILT TO SILTY FINE SAND
- INTERLAMINATED SILT AND SILTY SAND
- WEAK TO MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE
- POLLEN DATA AVAILABLE FOR 14-16 CM, 20-22 CM, 22-24 CM, 24-26 CM, 26-28 CM AND 32-34 CM INTERVALS

**UNIT 4: 41.5-51.5 CM**

- FIRM
- MEDIUM TO COARSE SAND  
GRAVEL HORIZON AT 48 CM
- GRAVEL CONSISTS OF SUBANGULAR GRANITIC PEBBLES WITH A  
COARSE SAND MATRIX
- WEAK HCL REACTION
- GRAIN-SIZE DATA AVAILABLE

## SEDIMENT CORE LOG

CORE: C03 /LAKE ONTARIO CORE TYPE: BENTHOS  
DATE: 16 JULY 1972 LENGTH: 83 CM  
UTM N: 4830977 E: 624970 IGLD DEPTH: 12.8 M  
PHOTOS: SLIDES- NO LOGGED BY: B. HAWKINS/G. LAHAIE  
X-RAY- YES DATE: 5 JUNE 1973

### UNIT 1: 0-12.5 CM

- ALTERNATING DARK GREY (5Y 4/1) AND VERY DARK GREY (5Y 3/1)
- SOFT
- SILTY CLAY; SILTY FINE SAND LAYER AT 4 CM
- DIFFUSELY LAMINATED
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE
- POLLEN DATA AVAILABLE FOR 0-2 CM, 4-6 CM, 10-12 CM

### UNIT 2: 12.5-14 CM

- VERY DARK GREY (5Y 3/1)
- SILTY FINE SAND
- STRONG HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE

### UNIT 3: 14-31.5 CM

- DARK GREY (5Y 4/1)
- SOFT
- SILTY CLAY; SANDY LAMINAE AT 25.5 AND 29 CM; LAYER OF PEAT AND SILTY SAND AT 30.5 CM
- LAMINATED
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE FOR 14-70 CM INTERVAL
- POLLEN DATA AVAILABLE FOR 14-16 CM AND 20-22 CM

### UNIT 4: 31.5-35 CM

- GREY (5Y 5/1)
- SOFT
- CLAY
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE FOR 14-70 CM INTERVAL
- POLLEN DATA AVAILABLE FOR 32-34 CM AND 34-36 CM

**UNIT 5: 35-70 CM**

- DARK GREY (5Y 4/1)
- SOFT
- SILTY CLAY
- SAND AND PEAT LAYERS AT 57 CM AND 66 CM
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE FOR 14-70 CM INTERVAL
- POLLEN DATA AVAILABLE FOR 34-36 CM, 36-38 CM, 40-42 CM, 44-46 CM, 52-54 CM, 58-60 CM, 62-64 CM, 64-66 CM, 66-68 CM

**UNIT 6: 70-73 CM**

- SILTY SAND
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE
- POLLEN DATA AVAILABLE FOR 70-72 CM INTERVAL

**UNIT 7: 73-78.5 CM**

- SANDY CLAY
- MODERATE HCL REACTION
- GRAIN-SIZE DATA AVAILABLE
- POLLEN DATA AVAILABLE FOR 74-76 CM INTERVAL

**UNIT 8: 78.5-83 CM**

- MEDIUM TO COARSE SAND
- MODERATE HCL REACTION WITH STRONG H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE



SEDIMENT CORE LOG

CORE: C04 /LAKE ONTARIO

CORE TYPE: BENTHOS

DATE: 16 JULY 1972

LENGTH: 12 CM

UTM N: 4830873 E: 628125

IGLD DEPTH: 9.3 M

PHOTOS: SLIDES- NO

LOGGED BY: G. LAHAIE

X-RAY- YES

DATE: 4 JUNE 1973

UNIT 1: 0-12 CM

- DARK GREY (5Y 4/1)
- SOFT
- SILTY FINE SAND
- VERY DARK GREY (5Y 3/1) LAMINAE WITH A HIGH CONCENTRATION OF HEAVY MINERALS AT ABOUT 1 CM INTERVALS
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE

SEDIMENT CORE LOG

CORE: C050 /LAKE ONTARIO

CORE TYPE: BEACHCOR

DATE: 28 AUGUST 1974

LENGTH: 79 CM

UTM N: 4829774 E: 630878

IGLD DEPTH: 4.0 M

PHOTOS: SLIDES- NO

LOGGED BY: G. WINTER

X-RAY- YES

DATE: 12 SEPTEMBER 1974

UNIT 1: 0-69 CM

- DARK GREYISH BROWN (2.5Y 4/2) TO OLIVE BROWN (2.5Y 4/4)
- PACKED
- MODERATELY SORTED FINE TO MEDIUM SAND
- HORIZONTAL LAMINATION TO 45 CM; CROSS-BEDDING FROM 45-69 CM  
LAMINATION PRODUCED BY VARIATION IN CONCENTRATION OF HEAVY  
MINERALS OR SULPHIDES; DARK LAMINAE ARE GENERALLY LESS THAN  
0.5 CM THICK AND SEPARATED BY INTERVALS OF UP TO 3 CM
- SCATTERED SHELL FRAGMENTS THROUGHOUT
- COAL FRAGMENTS AND CINDERS AT 63-CM LEVEL
- MODERATE HCL REACTION THROUGHOUT WITH INCREASING H<sub>2</sub>S ODOUR  
WITH DEPTH
- GRAIN-SIZE DATA AVAILABLE FOR 0-29 CM, 29-34 CM AND 34-69 CM  
INTERVALS

UNIT 2: 69-79 CM

- DARK GREYISH BROWN (2.5Y 4/2) TO OLIVE BROWN (2.5Y 4/4)
- PACKED
- POORLY SORTED FINE TO COARSE SAND WITH SEVERAL GRANULES, ONE  
PEBBLE OVERLYING MODERATELY SORTED FINE SAND
- CROSS-BEDDED
- SCATTERED SHELL FRAGMENTS THROUGHOUT
- MODERATE HCL REACTION WITH H<sub>2</sub>S ODOUR
- GRAIN-SIZE DATA AVAILABLE

SEDIMENT CORE LOG

CORE: C051 /LAKE ONTARIO

CORE TYPE: BEACHCOR

DATE: 28 AUGUST 1974

LENGTH: 65 CM

UTM N: 4830241 E: 632889

IGLD DEPTH: 7.0 M

PHOTOS: SLIDES- NO

LOGGED BY: G. WINTER

X-RAY- YES

DATE: 12 SEPTEMBER 1974

UNIT 1: 0-65 CM

- VERY DARK GREYISH BROWN (2.5Y 3/2) TO OLIVE (5Y 4/3)
- PACKED SAND
- POORLY-SORTED FINE TO MEDIUM SAND; INCLINED GRAVEL BAND 4 CM THICK AT THE 47 CM LEVEL WITH SUB-ROUNDED TO ROUNDED GRANULES AND PEBBLES OF MIXED COMPOSITION
- MOTTLED
- SCATTERED SHELL FRAGMENTS
- MODERATE HCL REACTION WITH INCREASING H<sub>2</sub>S ODOUR DOWN THE CORE
- GRAIN-SIZE DATA AVAILABLE FOR 0-20 CM, 20-40 CM AND 40-65 CM INTERVALS

SEDIMENT CORE LOG

CORE: C052 /LAKE ONTARIO

CORE TYPE: BEACHCOR

DATE: 28 AUGUST 1974

LENGTH: 24 CM

UTM N: 4832346 E: 637133

IGLD DEPTH: 16.5 M

PHOTOS: SLIDES- NO

LOGGED BY: G. WINTER

X-RAY- YES

DATE: 12 SEPTEMBER 1974

UNIT 1: 0-24 CM

- VERY DARK GREYISH BROWN (2.5Y 3/2)
- LOOSE SAND
- POORLY SORTED GRAVEL TO FINE SAND
- GRADED FROM GRAVEL AT THE BASE TO FINE SAND AT THE TOP
- MINOR SCATTERED SHELL FRAGMENTS
- SUBROUNDED PEBBLES OF MIXED COMPOSITION
- HCL REACTION WITH H<sub>2</sub>S ODOUR STRONGEST AT THE TOP OF THE UNIT
- GRAIN-SIZE DATA AVAILABLE FOR 0-12 CM AND 12-24 CM

**APPENDIX 11**

**SIZDIST Listings  
Cores**

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	0.00		
0.00	0.00	0.00	
.50	0.00	0.00	
1.00	0.00	0.00	
1.50	0.00	0.00	
2.00	.08	.08	
2.50	.32	.40	
3.00	1.21	1.62	*
3.50	7.28	8.90	*****
4.00	13.76	22.66	*****
4.50	8.87	31.54	*****
5.00	26.88	58.42	*****
5.50	17.75	76.17	*****
6.00	8.24	84.41	*****
6.50	3.93	88.34	****
7.00	2.41	90.75	**
7.50	4.82	95.56	*****
8.00	1.65	97.21	**
8.50	1.14	98.35	*
*****	1.65	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

4.91	1.14	.32	.45	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 8.5 PHI
4.86	1.19	.13	1.29	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	4.84	5TH	3.23	16TH	3.76	25TH	4.13
			75TH	5.47	84TH	5.98	95TH	7.44
PCT. GRAVEL	0.00	SAND	22.66	SILT (PIPETTE)	77.34	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	74.55	(SEDIGRAPH)	2.79	
GRAVEL+SAND	22.66	SILT/(SILT+CLAY)	96.39	PCT.GRAV+SAND/SILT+CLAY	.29			
LABELS SHEPARD	-SANDY SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT				

COMMENTS -  
CO1 0-9.5CM ORGANIC MATERIAL 0.0180

PHI PCT. CUMPCT.

10/25/82

- .50	0.00	0.00	
0.00	0.00	0.00	
.50	0.00	0.00	
1.00	0.00	0.00	
1.50	0.00	0.00	
2.00	.89	.89	*
2.50	.89	.89	*
3.00	2.67	1.78	***
3.50	9.78	4.45	*****
4.00	13.34	14.23	*****
4.50	7.13	27.57	*****
5.00	18.66	34.70	*****
5.50	16.87	53.36	*****
6.00	8.09	70.23	*****
6.50	5.62	78.33	*****
7.00	3.70	83.95	****
7.50	.96	87.65	*
8.00	4.53	88.61	****
8.50	2.47	93.14	**
9.00	1.51	95.61	**
9.50	1.51	97.12	**
9.50	1.37	98.63	*
*****		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

5.03 1.51 .35 .34

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 9.5 PHI

4.99 1.55 .19 1.16

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	4.91	5TH	3.03	16TH	3.57	25TH	3.90
			75TH	5.79	84TH	6.51	95TH	8.38
PCT. GRAVEL	0.00	SAND	27.57	SILT (PIPETTE)	72.43	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	65.57	(SEDIGRAPH)	6.86	
GRAVEL+SAND	27.57	SILT/(SILT+CLAY)	90.53	PCT.GRAV+SAND/SILT+CLAY	.38			
LABELS SHEPARD	-SANDY SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT				

COMMENTS -  
CO1 9.5-17.5 CM ORGANIC MATERIAL 0.0150G

10/25/82

PHI	PCT.	CUMPCT.	
3.50	0.00	0.00	
4.00	14.55	14.55	*****
4.50	17.27	31.82	*****
5.00	11.82	43.64	*****
5.50	10.91	54.55	*****
6.00	6.73	61.27	*****
6.50	7.45	68.73	*****
7.00	8.00	76.73	*****
7.50	3.27	80.00	***
8.00	8.73	88.73	*****
8.50	5.82	94.55	*****
9.00	2.73	97.27	***
9.50	2.73	100.00	***

MEAN ST.DEV. SKEWNESS KURTOSIS

6.09	1.51	.26	-.99
6.19	1.67	.33	.78

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 4.0 TO 9.5 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	5TH	16TH	25TH
	5.79	4.17	4.54	4.80
		75TH	84TH	95TH
		7.39	8.23	9.08

PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	80.00	(SEDIGRAPH)	20.00

GRAVEL+SAND .00 SILT/(SILT+CLAY) 80.00 PCT.GRAV+SAND/SILT+CLAY .00

LABELS SHEPARD -SILT FOLK(GMS)-MUD (SCS)-SILT



10/25/82

PHI	PCT. CUMPCT.	
3.50	ASSUMED UPPER LIMIT	**
4.00	1.93	1.93
4.50	1.38	3.31
5.00	12.98	16.30
5.50	11.05	27.35
6.00	8.56	35.91
6.50	7.46	43.37
7.00	8.84	52.21
7.50	9.12	61.33
8.00	9.39	70.72
8.50	9.12	79.83
9.00	8.56	88.40
9.50	6.08	94.48
*****	5.52	100.00

MEAN ST.DEV. SKEWNESS KURTOSIS

6.71 1.52 .01 -1.18

KRUMBEIN \* PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 4.0 TO 9.5 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN 6.88	5TH 4.56	16TH 4.99	25TH 5.39
		75TH 8.23	84TH 8.74	95TH*****
PCT. GRAVEL	.00	SAND 1.93	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 68.78	(SEDIGRAPH) 29.28
GRAVEL+SAND	1.93	SILT/(SILT+CLAY)	70.14PCT.GRAV+SAND/SILT+CLAY	.02
LABELS SHEPARD	-CLAYEY SILT	FOLK(GMS)-MUD		(SCS)-SILT

COMMENTS -

CO2 0-4.5CM. SAND REPRESENTED IS BETWEEN 88 AND 62.5 MICRONS

10/25/82

PHI	PCT.	CUMPCT.	
3.50	0.00		
4.00	5.90	0.00	*****
4.50	8.29	5.90	*****
5.00	6.38	14.19	*****
5.50	6.06	20.57	*****
6.00	10.05	26.63	*****
6.50	5.90	36.68	*****
7.00	9.57	42.58	*****
7.50	7.97	52.15	*****
8.00	5.26	60.13	*****
8.50	8.29	65.39	*****
9.00	3.99	73.68	****
9.50	5.10	77.67	*****
10.00	7.66	82.78	*****
10.50	2.87	90.43	***
11.00	6.70	93.30	*****
*****		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

7.27 1.89 .06 -1.07

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 4.0 TO 11.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	7.39	5TH	4.42	16TH	5.14	25TH	5.87
			75TH	9.17	84TH	10.08	95TH	*****
PCT. GRAVEL	.00	SAND	0.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	60.13	(SEDIGRAPH)	39.87	
GRAVEL+SAND	.00	SILT/(SILT+CLAY)	60.13	PCT.GRAV+SAND/SILT+CLAY			.00	
LABELS SHEPARD	-CLAYEY	SILT	FOLK(GMS)-MUD			(SCS)-MUD		

10/25/82

PHI	PCT.	CUMPCT.	
-0.50	0.00	0.00	
0.00	0.00	0.00	
0.50	.40	.40	
1.00	1.99	2.38	**
1.50	3.97	6.36	****
2.00	3.97	10.33	****
2.50	2.38	12.71	**
3.00	9.53	22.25	*****
3.50	14.30	36.55	*****
4.00	2.67	39.22	***
4.50	9.13	48.35	*****
5.00	10.91	59.26	*****
5.50	9.13	68.39	*****
6.00	5.34	73.73	*****
6.50	4.01	77.74	****
7.00	5.12	82.86	*****
7.50	3.34	86.20	***
8.00	1.56	87.76	**
8.50	3.78	91.54	****
9.00	1.11	92.65	*
9.50	2.89	95.55	***
10.00	.22	95.77	
10.50	1.56	97.33	**
11.00	2.00	99.33	**
11.50	.67	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

5.27	2.32	.29	-.07
5.31	2.35	.17	1.08

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE 0.0 TO 11.5 PHI  
FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD, 1957

PERCENTILES	MEDIAN	5.08	5TH	1.83	16TH	3.17	25TH	3.60
			75TH	6.66	84TH	7.67	95TH	9.91
PCT. GRAVEL	0.00	SAND	36.55	SILT (PIPETTE)	63.45	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	49.65	(SEDIGRAPH)	13.80	
GRAVEL+SAND	36.55	SILT/(SILT+CLAY)	78.25	PCT.GRAV+SAND/SILT+CLAY	.58			
LABELS SHEPARD	-SANDY SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT				

PHI PCT. CUMPCT.

10/25/82

-2.00			
.50	.54	.54	*
-1.00	.17	.71	
-.50	.23	.94	
0.00	0.00	.94	
.50	0.00	.94	
1.00	.26	.94	
1.50	4.86	1.20	*****
2.00	14.06	6.05	*****
2.50	19.17	20.11	*****
3.00	20.45	39.29	*****
3.50	10.23	59.74	*****
4.00	10.23	69.96	*****
4.50	1.10	80.19	*
5.00	1.10	81.29	*
5.50	3.19	82.39	***
6.00	.99	85.58	*
6.50	1.54	86.57	**
7.00	1.76	88.11	**
7.50	1.32	89.87	*
8.00	1.32	91.19	*
8.50	1.10	92.52	*
9.00	1.98	93.62	**
9.50	.88	95.60	*
10.00	.44	96.48	
10.50	1.65	96.92	**
11.00	.33	98.57	
11.50	.22	98.90	
*****	.88	99.12	*
		100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

3.39	2.14	.80	2.46	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.5 TO 11.5 PHI
3.29	1.98	.55	1.89	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.76	5TH	1.39	16TH	1.85	25TH	2.13
			75TH	3.75	84TH	5.25	95TH	8.85
PCT. GRAVEL	.71	SAND	79.48	SILT (PIPETTE)	19.81	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	12.33	(SEDIGRAPH)	7.48	
GRAVEL+SAND	80.19	SILT/(SILT+CLAY)	62.22	PCT.GRAV+SAND/SILT+CLAY	4.05			
LABELS SHEPARD	-SAND	FOLK(GMS)-MUDDY SAND		(SCS)-MUDDY SAND				

PHI PCT. CUMPCT.

10/25/82

- .50			
0.00	0.00	0.00	
.50	0.00	0.00	
1.00	0.00	0.00	
1.50	0.00	0.00	
2.00	.04	.04	
2.50	.39	.43	
3.00	.86	1.29	*
3.50	1.51	2.80	**
4.00	1.94	4.74	**
4.50	.57	5.31	*
5.00	5.13	10.45	*****
5.50	7.76	18.20	*****
6.00	8.44	26.65	*****
6.50	10.27	36.91	*****
7.00	9.47	46.38	*****
7.50	12.32	58.70	*****
8.00	9.01	67.72	*****
8.50	5.82	73.53	*****
9.00	5.93	79.47	*****
9.50	4.56	84.03	*****
10.00	3.08	87.11	***
10.50	2.62	89.73	***
11.00	1.94	91.67	**
11.50	2.85	94.52	***
*****	5.48	100.00	*****

MEAN ST.DEV. SKEWNESS KURTOSIS

7.10 1.86 .07 -.15 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 11.5 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	7.15	5TH	4.22	16TH	5.36	25TH	5.90
			75TH	8.62	84TH	9.50	95TH	*****
PCT. GRAVEL	0.00	SAND	4.74	SILT (PIPETTE)	95.26	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	62.97	(SEDIGRAPH)	32.28	

GRAVEL+SAND 4.74 SILT/(SILT+CLAY) 66.11PCT.GRAV+SAND/SILT+CLAY .05

ABELS SHEPARD -CLAYEY SILT FOLK(GMS)-MUD (SCS)-MUD

COMMENTS -

C03 0-12.5CM SOME ORGANIC MATTER IN SETTLINGTUBE

PHI PCT. CUMPCT.

10/25/82

- .50	0.00	0.00	
.00	0.00	0.00	
.50	0.00	0.00	
1.00	0.00	0.00	
1.50	0.00	0.00	
2.00	.26	.26	
2.50	3.42	3.69	***
3.00	8.42	12.11	*****
3.50	13.69	25.80	*****
4.00	13.16	38.96	*****
4.50	4.20	43.16	****
5.00	8.40	51.55	*****
5.50	8.07	59.63	*****
6.00	5.98	65.60	*****
6.50	6.46	72.06	*****
7.00	3.71	75.78	****
7.50	6.14	81.91	*****
8.00	4.36	86.27	****
8.50	4.52	90.80	****
9.00	4.04	94.83	****
9.50	3.88	98.71	****
*****	1.29	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

5.19 2.01 .23 -.95 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 9.5 PHI  
 5.26 2.13 .25 .77 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES MEDIAN 4.91 5TH 2.58 16TH 3.14 25TH 3.47  
 75TH 6.90 84TH 7.74 95TH 9.02  
 PGT. GRAVEL 0.00 SAND 38.96 SILT (PIPETTE) 61.04 CLAY (PIPETTE) 0.00  
 (SEDIGRAPH) 47.32 (SEDIGRAPH) 13.73  
 GRAVEL+SAND 38.96 SILT/(SILT+CLAY) 77.51 PCT.GRAV+SAND/SILT+CLAY .64  
 LABELS SHEPARD -SANDY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

PHI PCT. CUMPCT.

10/25/82

-.50	0.00		
.00	0.00	0.00	
.50	0.00	0.00	
1.00	0.00	0.00	
1.50	1.20	0.00	*
2.00	9.60	1.20	*****
2.50	2.40	10.80	**
3.00	3.60	13.21	****
3.50	13.21	16.81	*****
4.00	1.42	30.01	*
4.50	3.13	31.44	***
5.00	5.69	34.57	*****
5.50	7.59	40.26	*****
6.00	6.64	47.84	*****
6.50	7.59	54.48	*****
7.00	9.48	62.07	*****
7.50	5.97	71.55	*****
8.00	4.27	77.52	****
8.50	3.98	81.79	****
9.00	2.84	85.78	***
9.50	2.09	88.62	**
10.00	2.47	90.71	**
10.50	1.14	93.17	*
11.00	1.90	94.31	**
11.50	3.79	96.21	****
*****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

5.92	2.41	.07	-.81	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 11.5 PHI
6.11	2.71	.04	.93	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	6.16	5TH	2.20	16TH	3.39	25TH	3.81
			75TH	7.79	84TH	8.78	95TH	11.18
PCT. GRAVEL	0.00	SAND	30.01	SILT (PIPETTE)	69.99	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	47.51	(SEDIGRAPH)	22.48	
GRAVEL+SAND	30.01	SILT/(SILT+CLAY)	67.89	PCT.GRAV+SAND/SILT+CLAY	.43			
LABELS SHEPARD	-SAN	SIL	CLY	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT		

PHI PCT. CUMPCT.

10/25/82

-0.50	0.00	0.00	
0.00	0.00	0.00	
0.50	0.00	0.00	
1.00	0.00	0.00	
1.50	.68	.68	*
2.00	4.77	5.46	*****
2.50	2.73	8.18	***
3.00	1.71	9.89	**
3.50	3.75	9.89	****
4.00	7.50	13.64	*****
4.50	4.62	21.14	*****
5.00	14.53	25.77	*****
5.50	15.19	40.30	*****
6.00	9.91	55.49	*****
6.50	6.21	65.39	*****
7.00	4.62	71.60	*****
7.50	3.70	76.22	****
8.00	2.91	79.92	***
8.50	2.25	82.83	**
9.00	1.72	85.07	**
9.50	2.38	86.79	**
10.00	1.59	89.17	**
10.50	1.59	90.75	**
11.00	2.11	92.34	**
*****	5.55	94.45	*****
*****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

5.45 2.08 .25 .22

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 11.0 PHI

> 5 PERCENT OF THE FINES ARE NOT RESOLVED, OBTAIN FOLK STATS. GRAPHICALLY

PERCENTILES	MEDIAN	5.32	5TH	1.95	16TH	3.65	25TH	4.42
			75TH	6.87	84TH	8.25	95TH	*****
PCT. GRAVEL	0.00	SAND	21.14	SILT (PIPETTE)	78.86	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	61.69	(SEDIGRAPH)	17.17	
GRAVEL+SAND	21.14	SILT/(SILT+CLAY)	78.22	PCT.GRAV+SAND/SILT+CLAY			.27	
LABELS SHEPARD	-SANDY SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT				



PHI PCT. CUMPCT.

10/25/82

-0.50			
0.00	.24	.24	
.50	.24	.47	
1.00	.24	.71	
1.50	1.65	2.36	**
2.00	2.12	4.48	**
2.50	1.41	5.89	*
3.00	1.65	7.55	**
3.50	.71	8.25	*
4.00	3.07	11.32	***
4.50	2.08	13.40	**
5.00	14.55	27.95	*****
5.50	18.01	45.96	*****
6.00	13.86	59.82	*****
6.50	7.90	67.71	*****
7.00	4.85	72.56	*****
7.50	6.65	79.22	*****
8.00	3.46	82.68	***
8.50	2.63	85.31	***
9.00	3.60	88.91	****
9.50	1.39	90.30	*
10.00	.28	90.58	
10.50	3.88	94.46	****
11.00	1.39	95.84	*
****	4.16	100.00	****

MEAN ST.DEV. SKEWNESS KURTOSIS

5.85 1.99 .08 .65 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 11.0 PHI

6.16 2.21 .30 1.53 FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES MEDIAN 5.65 5TH 2.18 16TH 4.59 25TH 4.90  
75TH 7.18 84TH 8.25 95TH 10.70

PCT. GRAVEL 0.00 SAND 11.32 SILT (PIPETTE) 88.68 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 71.36 (SEDIGRAPH) 17.32

GRAVEL+SAND 11.32 SILT/(SILT+CLAY) 80.47PCT.GRAV+SAND/SILT+CLAY .13

BELS SHEPARD -CLAYEY SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

PHI PCT. CUMPCT.

10/25/82

-2.50			*
2.00	.96	.96	
-1.50	0.00	.96	
-1.00	0.00	.96	
-.50	.06	1.02	
0.00	0.00	1.02	
.50	.08	1.10	
1.00	.32	1.42	
1.50	2.79	4.22	***
2.00	4.79	9.01	*****
2.50	3.59	12.60	****
3.00	1.20	13.80	*
3.50	1.60	15.40	**
4.00	2.79	18.19	***
4.50	5.89	24.08	*****
5.00	19.37	43.45	*****
5.50	23.04	66.49	*****
6.00	12.57	79.06	*****
6.50	5.10	84.16	*****
7.00	4.71	88.87	*****
7.50	2.36	91.23	**
8.00	2.49	93.72	**
8.50	3.27	96.99	***
9.00	1.44	98.43	*
*****	1.57	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

4.95 1.78 -.42 2.04 KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.0 TO 9.0 PHI

5.08 1.72 -.07 2.06 FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES MEDIAN 5.14 5TH 1.58 16TH 3.61 25TH 4.52  
75TH 5.84 84TH 6.48 95TH 8.20

PCT. GRAVEL .96 SAND 17.23 SILT (PIPETTE) 81.81 CLAY (PIPETTE) 0.00  
(SEDIGRAPH) 75.53 (SEDIGRAPH) 6.28

GRAVEL+SAND 18.19 SILT/(SILT+CLAY) 92.32 PCT. GRAV+SAND/SILT+CLAY .22

BELS SHEPARD -SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

COMMENTS -

C03 78.5-83CM ORGANIC MATERIAL 0.0223

PHI PCT. CUMPCT.

10/25/82

-0.50			
0.00	0.00	0.00	
.50	.18	.18	
1.00	.18	.36	
1.50	.18	.54	
2.00	1.63	2.18	**
2.50	.36	2.54	
3.00	2.18	4.72	**
3.50	9.08	13.80	*****
4.00	10.17	23.96	*****
4.50	8.09	32.05	*****
5.00	17.80	49.85	*****
5.50	13.43	63.28	*****
6.00	7.28	70.56	*****
6.50	5.02	75.57	*****
7.00	3.40	78.97	***
7.50	4.85	83.82	*****
8.00	1.62	85.44	**
8.50	4.85	90.29	*****
9.00	3.24	93.53	***
9.50	4.85	98.38	*****
****	1.62	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

5.33	1.82	.26	-.21	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 0.0 TO 9.5 PHI
5.39	1.92	.32	1.06	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	5.01	5TH	3.02	16TH	3.61	25TH	4.06
			75TH	6.44	84TH	7.56	95TH	9.15
PCT. GRAVEL	0.00	SAND	23.96	SILT (PIPETTE)	76.04	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	61.48	(SEDIGRAPH)	14.56	
GRAVEL+SAND	23.96	SILT/(SILT+CLAY)	80.85	PCT.GRAV+SAND/SILT+CLAY	.32			
LABELS SHEPARD	-SANDY SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT				



PHI PCT. CUMPCT.

10/25/82

-0.50	0.00	
0.00	0.00	0.00
.50	0.00	0.00
1.00	0.00	0.00
1.50	2.41	2.41
2.00	17.69	20.10
2.50	42.62	62.72
3.00	30.56	93.28
3.50	3.22	96.49
4.00	0.00	96.49
8.00	1.09	97.58
****	2.42	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.33	.42	-.10	-.21
2.36	.50	.06	1.08

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
 FOR SIZE RANGE 0.0 TO 4.0 PHI  
 FOLK GRAPHIC STATISTICAL PARAMETERS  
 FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.35	5TH	1.57	16TH	1.88	25TH	2.06
			75TH	2.70	84TH	2.85	95TH	3.27

PCT. GRAVEL	0.00	SAND	96.49	SILT (PIPETTE)	1.09	CLAY (PIPETTE)	2.42
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 96.49 SILT/(SILT+CLAY) 31.07 PCT.GRAV+SAND/SILT+CLAY 27.50

LABELS SHEPARD -SAND FOLK(GMS)-SAND (SCS)-SAND



PHI PCT. CUMFCT.

10/25/82

-2.50			*
2.00	1.47	1.47	*
-1.50	1.45	2.91	*
-1.00	.64	3.55	*
-.50	.74	4.30	*
0.00	.09	4.39	
.50	2.67	7.06	***
1.00	11.05	18.11	*****
1.50	9.21	27.33	*****
2.00	11.98	39.30	*****
2.50	22.11	61.41	*****
3.00	27.64	89.05	*****
3.50	4.61	93.65	*****
4.00	.92	94.57	*
8.00	2.60	97.17	***
*****	2.83	100.00	***

MEAN ST.DEV. SKEWNESS KURTOSIS

1.89	1.11	-.78	2.99	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.0 TO 4.0 PHI
2.02	1.19	-.14	1.36	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.24	5TH	.11	16TH	.90	25TH	1.37
			75TH	2.75	84TH	2.91	95TH	4.66
PCT. GRAVEL	3.55	SAND	91.02	SILT (PIPETTE)	2.60	CLAY (PIPETTE)	2.83	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	94.57	SILT/(SILT+CLAY)	47.84	PCT.GRAV+SAND/SILT+CLAY	17.42			
LABELS SHEPARD	-SAND	FOLK(GMS)-SAND		(SGS)-SAND				

10/25/82

PHI	PCT.	CUMPCT.
-1.00	.04	.04
-0.50	0.00	.04
0.00	.11	.04
.50	2.08	.15
1.00	2.19	2.23
1.50	4.42	
2.00	29.58	33.99
2.50	44.91	78.91
3.00	15.34	94.24
3.50	1.10	95.34
4.00	.22	95.56
8.00	1.93	97.48
*****	2.52	100.00

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MEAN ST.DEV. SKEWNESS KURTOSIS

2.13	.45	-.24	1.95
2.18	.52	.14	1.24

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES  
FOR SIZE RANGE -.5 TO 4.0 PHI  
FOLK GRAPHIC STATISTICAL PARAMETERS  
FOLK AND WARD,1957

PERCENTILES	MEDIAN	2.18	5TH	1.51	16TH	1.70	25TH	1.85
			75TH	2.46	84TH	2.67	95TH	3.35

PCT. GRAVEL	0.00	SAND	95.56	SILT (PIPETTE)	1.93	CLAY (PIPETTE)	2.52
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 95.56 SILT/(SILT+CLAY) 43.38PCT.GRAV+SAND/SILT+CLAY 21.50

LABELS SHEPARD.-SAND FOLK(GMS)-SAND (SCS)-SAND



10/25/82

PHI	PCT.	CUMFCT.	
-1.00			
	.07		
-0.50	0.00	.07	
0.00	.52	.07	*
.50	8.82	.58	*****
1.00	10.38	9.40	*****
1.50	24.90	19.78	*****
2.00	35.28	44.68	*****
2.50	13.49	79.96	*****
3.00	2.08	93.44	**
3.50	0.00	95.52	**
4.00	1.96	97.48	**
8.00	2.52	100.00	***
*****			

MEAN ST.DEV. SKEWNESS KURTOSIS

1.95	.61	-.24	-.03	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -.5 TO 4.0 PHI
2.01	.73	-.07	1.30	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	5TH	16TH	25TH
	2.08	.75	1.32	1.60
		75TH	84TH	95TH
		2.43	2.65	3.37

PCT. GRAVEL	0.00	SAND	95.52	SILT (PIPETTE)	1.96	CLAY (PIPETTE)	2.52
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00
GRAVEL+SAND	95.52	SILT/(SILT+CLAY)	43.75	PCT.GRAV+SAND/SILT+CLAY	21.32		
LABELS SHEPARD -SAND		FOLK(GMS)-SAND		(SCS)-SAND			

PHI PCT. CUMPCT.

10/25/82

-3.00			
.50	1.16	1.16	*
-2.00	.99	2.14	*
-1.50	.45	2.60	
-1.00	.34	2.94	
-.50	.36	3.30	
0.00	0.00	3.30	
.50	1.01	4.30	*
1.00	10.07	14.37	*****
1.50	10.07	24.44	*****
2.00	26.17	50.61	*****
2.50	31.21	81.81	*****
3.00	13.09	94.90	*****
3.50	1.51	96.41	**
4.00	0.00	96.41	
8.00	1.01	97.42	*
****	2.58		***
****	100.00		

MEAN ST.DEV. SKEWNESS KURTOSIS

1.77	.96	-1.17	7.78
1.88	.75	-.19	1.16

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	1.99	5TH	.53	15TH	1.08	25TH	1.51
			75TH	2.39	84TH	2.58	95TH	3.03
PCT. GRAVEL	2.94	SAND	93.48	SILT (PIPETTE)	1.01	CLAY (PIPETTE)		2.58
				(SEDIGRAPH)	0.00	(SEDIGRAPH)		0.00
GRAVEL+SAND	96.41	SILT/(SILT+CLAY)	28.03	PCT.GRAV+SAND/SILT+CLAY				26.86
LABELS SHEPARD	-SAND		FOLK(GMS)-SAND			(SCS)-SAND		

PHI PCT. CUMPCT.

10/25/82

-1.50			
0.00	.05	.05	
-0.50	.26	.31	
0.00	0.00	.31	
0.50	3.90	4.21	****
1.00	10.72	14.93	*****
1.50	13.64	28.57	*****
2.00	17.54	46.11	*****
2.50	28.75	74.86	*****
3.00	19.00	93.86	*****
3.50	.97	94.84	*
4.00	0.00	94.84	**
8.00	2.17	97.01	***
****	2.99	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

1.86	.74	-.29	-.30
1.95	1.00	-.01	1.36

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -1.0 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	2.07	5TH	.54	16TH	1.04	25TH	1.37
			75TH	2.50	84TH	2.74	95TH	4.30

PCT. GRAVEL	.05	SAND	94.79	SILT (PIPETTE)	2.17	CLAY (PIPETTE)	2.99
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00

GRAVEL+SAND 94.84 SILT/(SILT+CLAY) 42.09 PCT.GRAV+SAND/SILT+CLAY 18.37

LABELS SHEPARD -SAND FOLK(GMS) -SAND (SCS) -SAND

PHI PCT. CUMPCT.

10/25/82

-3.00			*
.50	1.47	1.47	*
-2.00	.54	2.01	****
-1.50	3.56	5.57	***
-1.00	3.23	8.80	*****
-.50	5.04	13.84	*
0.00	1.01	14.85	*****
.50	21.98	36.83	*****
1.00	18.94	55.77	*****
1.50	14.20	69.97	*****
2.00	9.47	79.44	*****
2.50	8.79	88.23	*****
3.00	6.76	95.00	*
3.50	.68	95.67	**
4.00	0.00	95.67	**
8.00	2.13	97.81	**
****	2.19	100.00	**

MEAN ST.DEV. SKEWNESS KURTOSIS

.78	1.21	-.26	.34
1.04	1.25	.10	1.22

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE -2.5 TO 4.0 PHI

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD,1957

PERCENTILES	MEDIAN	.85	5TH	-1.58	16TH	.03	25TH	.23
			75TH	1.77	84TH	2.26	95TH	3.00
PCT. GRAVEL	8.80	SAND	86.88	SILT (PIPETTE)	2.13	CLAY (PIPETTE)	2.19	
				(SEDIGRAPH)	0.00	(SEDIGRAPH)	0.00	
GRAVEL+SAND	95.67	SILT/(SILT+CLAY)	49.30	PCT.GRAV+SAND/SILT+CLAY	22.11			
LABELS SHEPARD	-SAND	FOLK(GMS)-GRAVELLY SAND		(SCS)-				

**APPENDIX 12**

Pollen Data  
Cores

POLLEN DATA FOR SEDIMENT CORES

CORE NO.	DEPTH CM.	% SILT-CLAY	AMBROSIA COUNT	PINUS COUNT	AMBROSIA /GM*	PINUS /GM*
C01	0-2	34	9	17	500	950
	2-4	35	10	12	300	360
	4-6	15	1	4	80	310
C02	0-2	31	152	71	8000	10900
	4-6	30	42	49	8100	9500
	10-12	37	94	12	8000	1000
	14-16	19	51	75	4400	6500
	20-22	31	20	155	1400	10900
	22-24	30	5	258	320	16600
	24-26	26	5	371	270	19900
	26-28	25	7	267	580	22000
	32-34	14	2	129	130	8600
C03	0-2	27	46	35	8600	6500
	4-6	38	61	34	8700	4900
	10-12	46	28	4	4000	570
	14-16	38	62	22	9400	3400
	20-22	46	61	20	6700	2200
	32-34	52	40	32	3100	2500
	34-36	62	13	19	930	1400
	36-38	69	21	11	3000	1600
	40-42	48	44	44	3900	3900
	44-46	46	35	23	2900	1900
	52-54	52	11	34	1300	4100
	58-60	58	25	53	1700	3600
	62-64	56	15	57	2300	8800
	64-66	41	0	141	0	19000
	66-68	41	2	72	290	10500
70-72	42	4	202	210	10800	
74-76	54	1	95	60	6000	
C04	0-2	19	2	42	250	5200
	2-4	19	2	282	140	19300
	4-6	33	1	88	60	4900

\*-- GRAINS PER GRAM OF SILT-CLAY FRACTION