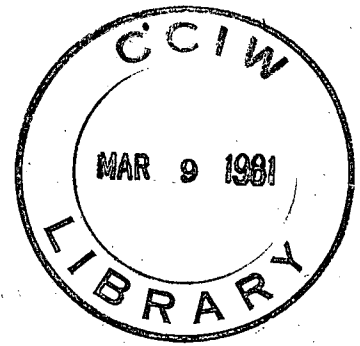


**HYDRAULICS DIVISION**

Technical Note



**DATE:** March 1981 **REPORT NO:** 81-05

**TITLE:** Particle Size Data Report 81-03

**AUTHOR:** G. A. Duncan

**REASON FOR REPORT:** This report responds to a request for particle size data from Dr. John Cherry, Dept. of Earth Sciences, University of Waterloo.

**CORRESPONDENCE FILE NO:**  
5690 (Study No. 2304)

## 1.0 INTRODUCTION

Dr. John Cherry and Stephanie O'Hannesin of the University of Waterloo submitted 37 samples to the Sedimentology Laboratory for particle size analysis.

The samples were analysed by David Dytynshyn of the University of Waterloo and the results checked by G. Duncan.

This report provides the results of those analyses.

## 2.0 PROCEDURE

The Sieve and Sedigraph Method which provides sand, silt and clay percentages was used to analyse the samples.

Briefly, the procedure consists of:

1. Splitting the sample to 2g.
2. Removing particles large enough to block Sedigraph Suction Tube (0.074 mm).
3. Dispersion sample in a Calgon suspension.
4. Automatic analysis with the Sedigraph.
5. Processing the results with SIZDIST: a FORTRAN IV computer program.

## 3.0 RESULTS

Appendix 1 lists the size analysis results for each sample. The output consists of:

1. A histogram of the frequency distribution.
2. The percentage and cumulative percentage of the material occurring within each 1/2 PHI unit.
3. Moment measures (Krumbein and Pettijohn, 1938) and graphic (Folk and Ward, 1957) statistics.
4. Percentiles.
5. Percent gravel, sand, silt and clay.
6. Ratios used to plot Folk's Ternary Classification.
7. Shepart (1954) and Folk (1974) Ternary Classifications.

- Folk, R. L., 1968. "Petrology of Sedimentary Rocks". Hemphill Publishing Co., Austin, Texas, 182 p.
- Folk, R. L. and Ward, W. C., 1957. "Brazos River Bar: A Study in the Significance of Grain-Size Parameters". Jour. Sed. Petrology, V. 27, p. 3-26.
- Krumbein, W. C. and Pettijohn, F. J., 1938. "Manual of Sedimentary Petrography". Appleton-Century-Crofts, New York, 549 p.
- Shepard, F. P., 1954. "Nomenclature Based on Sand-Silt Ratios". Jour. Sed. Petrology, V. 24, p. 151-158.

**APPENDIX 1**  
**Size Analysis Data**



1-034-036

170281 SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	17.00	17.00	*****
4.50	36.50	53.50	*****
5.00	33.50	87.00	*****
5.50	7.00	94.00	*****
6.00	1.50	95.50	*
6.50	.50	96.00	
7.00	0.00	96.00	*
7.50	1.00	97.00	
8.00	0.00	97.00	
8.50	.50	97.50	
9.00	.50	98.00	**
*****	2.00	100.00	

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.45	5TH*****	16TH*****	25TH 4.11
		75TH 4.82	84TH 4.96	95TH 5.83
PCT. GRAVEL	.00	SAND 17.00	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 80.00	(SEDIGRAPH) 3.00
GRAVEL+SAND	17.00	SILT/(SILT+CLAY)	96.39	PCT.GRAV+SAND/SILT+CLAY .20
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT

1-036-038

170281 SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	<del>12.00</del>	12.00	*****
4.50	30.00	42.00	*****
5.00	<del>40.00</del>	82.00	*****
5.50	11.50	93.50	*****
6.00	<del>2.50</del>	96.00	**
6.50	.50	96.50	
7.00	.50	97.00	
7.50	1.00	98.00	*
8.00	0.00	98.00	
8.50	.50	98.50	
9.00	0.00	98.50	
*****	1.50	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.60	5TH*****	16TH	4.07	25TH	4.22	
			75TH	4.91	84TH	5.09	95TH	5.80
PCT. GRAVEL	.00	SAND	12.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	86.00	(SEDIGRAPH)	2.00	
GRAVEL+SAND	12.00	SILT/(SILT+CLAY)	97.73	PCT. GRAV+SAND/SILT+CLAY	.14			
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT				

1-042-044

170281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUM PCT.

3.50 ASSUMED UPPER LIMIT

4.00	14.50	14.50	*****
4.50	36.50	51.00	*****
5.00	37.00	88.00	*****
5.50	7.00	95.00	*****
6.00	2.00	97.00	**
6.50	.50	97.50	
7.00	.50	98.00	
7.50	0.00	98.00	
8.00	0.00	98.00	
8.50	0.00	98.00	
9.00	0.00	98.00	
*****	2.00	100.00	**

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.49	5TH*****	16TH 4.02	25TH 4.14
		75TH 4.82	84TH 4.95	95TH 5.50
PCT. GRAVEL	.00	SAND 14.50	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 83.50	(SEDIGRAPH) 2.00
GRAVEL+SAND	14.50	SILT/(SILT+CLAY)	97.66	PCT.GRAV+SAND/SILT+CLAY .17
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT

1-044-046

180281 SEDIGRAPH ANALYSIS

PHI PCT. CUM PCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	19.90	19.90	*****
4.50	38.31	58.21	*****
5.00	31.34	89.55	*****
5.50	4.98	94.53	*
6.00	1.49	96.02	*
6.50	0.00	96.02	*
7.00	1.00	97.01	*
7.50	0.00	97.01	*
8.00	1.00	98.01	*
8.50	0.00	98.01	*
9.00	0.00	98.01	**
*****	1.99	100.00	**

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.39	5TH*****	16TH*****	25TH	4.07	
			75TH	4.77	84TH	4.91	
					95TH	5.66	
PCT. GRAVEL	.00	SAND	19.90	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	78.11	(SEDIGRAPH)	1.99
GRAVEL+SAND	19.90	SILT/(SILT+CLAY)	97.52	PCT. GRAV+SAND/SILT+CLAY		.25	
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT			

1-100-102

180281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUM PCT.

3.50 ASSUMED UPPER LIMIT

4.00	16.83	16.83
4.50	31.68	48.51
5.00	36.63	85.15
5.50	9.41	94.55
6.00	1.98	96.53
6.50	.50	97.03
7.00	.50	97.52
7.50	.50	98.02
8.00	0.00	98.02
8.50	0.00	98.02
9.00	1.49	99.50
*****	.50	100.00

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NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.52	5TH*****	16TH*****	25TH	4.13
			75TH	4.86	84TH	4.98
					95TH	5.61

PCT. GRAVEL	.00	SAND	16.83	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	81.19	(SEDIGRAPH)	1.98

GRAVEL+SAND 16.83 SILT/(SILT+CLAY) 97.62 PCT.GRAV+SAND/SILT+CLAY .20  
 LABELS SHEPARD -SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

1-102-104

170281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUMPCT.

3.50 ASSUMED UPPER LIMIT

4.00	9.36	9.36	*****
4.50	25.62	34.98	*****
5.00	42.86	77.83	*****
5.50	14.78	92.61	***
6.00	3.45	96.06	*
6.50	.99	97.04	
7.00	.49	97.54	
7.50	.49	98.03	
8.00	0.00	98.03	
8.50	.49	98.52	
9.00	.49	99.01	*
*****	.99	100.00	

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.68	5TH*****	16TH 4.13	25TH 4.31
		75TH 4.97	84TH 5.21	95TH 5.85
PCT. GRAVEL	.00	SAND 9.36	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 88.67	(SEDIGRAPH) 1.97
GRAVEL+SAND	9.36	SILT/(SILT+CLAY)	97.83	PCT.GRAV+SAND/SILT+CLAY .10
LABELS SHEPARD	-SILT	FOLK(GMS)-MUD		(SCS)-SILT



1-104-106

170 281 SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	14.68	14.68	*****
4.50	39.45	54.13	*****
5.00	34.40	88.53	*****
5.50	6.88	95.41	*****
6.00	.92	96.33	
6.50	.46	96.79	
7.00	.46	97.25	
7.50	.46	97.71	
8.00	.46	98.17	
8.50	0.00	98.17	
9.00	0.00	98.17	**
*****	1.83	100.00	

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.45	5TH*****	16TH 4.02	25TH 4.13
		75TH 4.80	84TH 4.93	95TH 5.47
PCT. GRAVEL	.00	SAND 14.68	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 83.49	(SEDIGRAPH) 1.83
GRAVEL+SAND	14.68	SILT/(SILT+CLAY)	97.85	PCT.GRAV+SAND/SILT+CLAY .17
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT

PHI PCT. CUMFCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	11.50	11.50	*****
4.50	41.50	53.00	*****
5.00	37.00	90.00	*****
5.50	6.50	96.50	*****
6.00	1.50	98.00	*
6.50	0.00	98.00	
7.00	0.00	98.00	
7.50	1.00	99.00	*
8.00	0.00	99.00	
8.50	0.00	99.00	
9.00	0.00	99.00	
*****	1.00	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.46	5TH*****	16TH 4.05	25TH 4.16
		75TH 4.80	84TH 4.92	95TH 5.38
PCT. GRAVEL	.00	SAND 11.50	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 87.50	(SEDIGRAPH) 1.00
GRAVEL+SAND	11.50	SILT/(SILT+CLAY)	98.87PCT.GRAV+SAND/SILT+CLAY	.13
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD	(SCS)-SANDY SILT	



PHI PCT. CUMFCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	9.80	9.80	*****
4.50	37.25	47.06	*****
5.00	39.22	86.27	*****
5.50	9.80	96.08	*****
6.00	1.47	97.55	*
6.50	.49	98.04	
7.00	0.00	98.04	
7.50	.49	98.53	
8.00	0.00	98.53	
8.50	.49	99.02	
9.00	0.00	99.02	
*****	.98	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.54	5TH*****	16TH 4.08	25TH 4.20
		75TH 4.86	84TH 4.97	95TH 5.45
PCT. GRAVEL	.00	SAND 9.80	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 88.73	(SEDIGRAPH) 1.47
GRAVEL+SAND	9.80	SILT/(SILT+CLAY)	98.37	PCT.GRAV+SAND/SILT+CLAY .11
LABELS SHEPARD	-SILT	FOLK(GMS)-MUD		(SCS)-SILT

1-112-114

180281 SEDIGRAPH ANALYSIS

PHI PCT. CUM PCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	5.42	5.42	*****
4.50	20.69	26.11	*****
5.00	42.86	68.97	*****
5.50	19.70	88.67	*****
6.00	4.93	93.60	**
6.50	1.97	95.57	*
7.00	.99	96.55	
7.50	.49	97.04	
8.00	0.00	97.04	
8.50	.49	97.54	
9.00	0.00	97.54	**
*****	2.46	100.00	

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.78	5TH*****	16TH	4.26	25TH	4.47	
			75TH	5.15	84TH	5.38	95TH	6.36
PCT. GRAVEL	.00	SAND	5.42	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	91.63	(SEDIGRAPH)	2.96	
GRAVEL+SAND	5.42	SILT/(SILT+CLAY)	96.87	PCT.GRAV+SAND/SILT+CLAY			.06	
LABELS SHEPARD	-SILT	FOLK(GMS)-MUD		(SCS)-SILT				

1-114-116

180281 SEDIGRAPH ANALYSIS

PHI PCT. CUM PCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	11.44	11.44	*****
4.50	13.93	25.37	*****
5.00	28.36	53.73	*****
5.50	22.39	76.12	*****
6.00	12.94	89.05	****
6.50	4.48	93.53	*
7.00	1.49	95.02	*
7.50	1.00	96.02	
8.00	.50	96.52	
8.50	.50	97.01	
9.00	0.00	97.01	
*****	2.99	100.00	***

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.93	5TH*****	16TH	4.16	25TH	4.49	
			75TH	5.48	84TH	5.80	95TH	6.99
PCT. GRAVEL	.00	SAND	11.44	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	85.07	(SEDIGRAPH)	3.43	
GRAVEL+SAND	11.44	SILT/(SILT+CLAY)	96.07	PCT.GRAV+SAND/SILT+CLAY			.13	
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT				

1-116-118

180281 SEDIGRAPH ANALYSIS

PHI PCT. CUMFCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	6.06	6.06	*****
4.50	26.26	32.32	*****
5.00	30.89	71.21	*****
5.50	16.16	87.37	*****
6.00	2.53	91.92	***
6.50	1.01	94.44	*
7.00	.51	95.45	*
7.50	1.01	95.96	*
8.00	0.00	96.97	
8.50	0.00	96.97	
9.00	3.03	96.97	***
*****	100.00		

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.73	5TH*****	16TH 4.19	25TH 4.36
		75TH 5.12	84TH 5.40	95TH 6.78
PCT. GRAVEL	.00	SAND 6.06	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 90.91	(SEDIGRAPH) 3.03
GRAVEL+SAND	6.06	SILT/(SILT+CLAY)	96.77PCT.GRAV+SAND/SILT+CLAY	.06
LABELS SHEPARD	-SILT	FOLK(GMS)-MUD	(SCS)-SILT	

1-118-120 180281 SEDIGRAPH ANALYSIS

PHI FCT. CUMFCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	16.50	16.50	*****
4.50	25.00	41.50	*****
5.00	37.00	78.50	*****
5.50	14.00	92.50	*****
6.00	3.00	95.50	***
6.50	1.50	97.00	*
7.00	.50	97.50	
7.50	.50	98.00	
8.00	0.00	98.00	
8.50	0.00	98.00	
9.00	0.00	98.00	
*****	2.00	100.00	**

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.61	5TH*****	16TH*****	25TH	4.17	
			75TH	4.95	84TH	5.20	
					95TH	5.92	
PCT. GRAVEL	.00	SAND	16.50	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	81.50	(SEDIGRAPH)	2.00
GRAVEL+SAND	16.50	SILT/(SILT+CLAY)	97.60	PCT.GRAV+SAND/SILT+CLAY		.20	
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT			

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	4.35	4.35	***
4.50	28.99	33.33	*****
5.00	44.44	77.78	*****
5.50	13.53	91.30	***
6.00	3.38	94.69	*
6.50	.97	95.65	
7.00	.48	96.14	
7.50	.48	96.62	
8.00	0.00	96.62	
8.50	0.00	96.62	
9.00	.48	97.10	***
*****	2.90	100.00	

MEAN ST.DEV. SKEWNESS KURTOSIS

4.72	.58	1.19	12.17	KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 4.0 TO 9.0 PHI
4.71	.58	.21	1.44	FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARB, 1957

PERCENTILES	MEDIAN	4.69	5TH	4.01	16TH	4.20	25TH	4.36
			75TH	4.97	84TH	5.23	95TH	6.16
PCT. GRAVEL	.00	SAND	4.35	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	92.27	(SEDIGRAPH)	3.38	
GRAVEL+SAND	4.35	SILT/(SILT+CLAY)	96.46	PCT.GRAV+SAND/SILT+CLAY	.05			
LABELS SHEPARD	-SILT	FOLK(GMS)-MLD		(SCS)-SILT				



2-038-040

180281 SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	13.59	13.59	*****
4.50	41.26	54.85	*****
5.00	32.52	87.38	*****
5.50	7.28	94.66	*****
6.00	1.46	96.12	*
6.50	0.00	96.12	*
7.00	.97	97.09	*
7.50	0.00	97.09	
8.00	0.00	97.09	
8.50	.49	97.57	
9.00	0.00	97.57	
*****	2.43	100.00	**

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.44	5TH*****	16TH	4.03	25TH	4.14	
			75TH	4.81	84TH	4.95	95TH	5.62
PCT. GRAVEL	.00	SAND	13.59	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	83.50	(SEDIGRAPH)	2.91	
GRAVEL+SAND	13.59	SILT/(SILT+CLAY)	96.63	PCT.GRAV+SAND/SILT+CLAY			.16	
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SGS)-SANDY SILT				

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	7.96	7.96	*****
4.50	30.85	38.81	*****
5.00	40.80	79.60	*****
5.50	11.44	91.04	*****
6.00	2.49	93.53	**
6.50	1.49	95.02	*
7.00	1.00	96.02	
7.50	0.00	96.02	
8.00	.50	96.52	
8.50	.50	97.01	
9.00	1.00	98.01	*
*****	1.99	98.01	**
		100.00	

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.64	5TH*****	16TH	4.13	25TH	4.28	
			75TH	4.94	84TH	5.19	95TH	6.49
PCT. GRAVEL	.00	SAND	7.96	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	88.56	(SEDIGRAPH)	3.48	
GRAVEL+SAND	7.96	SILT/(SILT+CLAY)	96.22	PCT.GRAV+SAND/SILT+CLAY			.09	
LABELS SHEPARD	-SILT	FOLK(GMS)-MLD		(SCS)-SILT				



2-042-044

180281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUM PCT.

3.50 ASSUMED UPPER LIMIT

4.00	13.86	13.86	*****
4.50	35.15	49.01	*****
5.00	33.66	82.67	*****
5.50	9.41	92.08	*
6.00	1.49	93.56	*
6.50	.50	94.06	*
7.00	.50	94.55	*
7.50	1.49	96.04	*
8.00	0.00	96.04	*
8.50	.99	97.03	*
9.00	.50	97.52	**
*****	2.48	100.00	**

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.51	5TH*****	16TH 4.03	25TH 4.16
		75TH 4.89	84TH 5.07	95TH 7.15
PCT. GRAVEL	.00	SAND 13.86	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 82.18	(SEDIGRAPH) 3.96
GRAVEL+SAND	13.86	SILT/(SILT+CLAY)	95.40	PCT.GRAV+SAND/SILT+CLAY .16
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD	(SCS)-SANDY SILT	

2-044-046

180281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUMPCT.

3.50 ASSUMED UPPER LIMIT

4.00	18.72	18.72	*****
4.50	38.92	57.64	*****
5.00	32.51	90.15	*****
5.50	6.40	96.55	*****
6.00	.99	97.54	*
6.50	.49	98.03	
7.00	0.00	98.03	
7.50	0.00	98.03	
8.00	0.00	98.03	
8.50	0.00	98.03	
9.00	.99	99.01	*
*****	.99	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.40	5TH*****	16TH*****	25TH 4.08
		75TH 4.77	84TH 4.91	95TH 5.38
PCT. GRAVEL	.00	SAND 18.72	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 79.31	(SEDIGRAPH) 1.97
GRAVEL+SAND	18.72	SILT/(SILT+CLAY)	97.58	PCT.GRAV+SAND/SILT+CLAY .23
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT

2-046-048

180281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUMPT.

3.50 ASSUMED UPPER LIMIT

4.00	17.00	17.00
4.50	36.00	53.00
5.00	35.50	88.50
5.50	7.00	95.50
6.00	1.50	97.00
6.50	0.00	97.00
7.00	.50	97.50
7.50	.50	98.00
8.00	0.00	98.00
8.50	0.00	98.00
9.00	1.00	99.00
*****	1.00	100.00

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NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.46	5TH*****	16TH*****	25TH 4.11
		75TH 4.81	84TH 4.94	95TH 5.46

PCT. GRAVEL	.00	SAND 17.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
			(SEDIGRAPH)	81.00	(SEDIGRAPH)	2.00

GRAVEL+SAND 17.00 SILT/(SILT+CLAY) 97.59 PCT. GRAV+SAND/SILT+CLAY .20

LABELS SHEPARD -SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

2-048-050

180261 SEDIGRAPH ANALYSIS

PHI PCT. CUM PCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	23.23	23.23	
4.50	37.37	60.61	*****
5.00	29.80	90.40	*****
5.50	6.06	96.46	*****
6.00	1.01	97.47	*
6.50	.51	97.98	*
7.00	0.00	97.98	*
7.50	.51	98.48	*
8.00	.51	98.99	*
8.50	0.00	98.99	*
9.00	.51	99.49	*
*****	.51	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.36	5TH*****	16TH*****	25TH	4.02
			75TH	4.74	84TH	4.89
					95TH	5.38

PCT. GRAVEL	.00	SAND	23.23	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	75.76	(SEDIGRAPH)	1.01
GRAVEL+SAND	23.23	SILT/(SILT+CLAY)	98.68	PCT. GRAV+SAND/SILT+CLAY			.30
LABELS SHEPARD	-SILT	FOLK (GMS)	-SANDY MUD	(SGS)	-SANDY SILT		

2-070-072

180281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUMPCT.

3.50 ASSUMED UPPER LIMIT

4.00	16.67	16.67	*****
4.50	37.88	54.55	*****
5.00	33.84	88.38	*****
5.50	7.07	95.45	*****
6.00	1.52	96.97	*
6.50	0.00	96.97	*
7.00	.51	97.47	*
7.50	.51	97.98	*
8.00	.51	98.48	*
8.50	0.00	98.48	*
9.00	1.01	99.49	*
*****	.51	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.44	5TH*****	16TH*****	25TH	4.11
			75TH	4.80	84TH	4.94
					95TH	5.47

PCT. GRAVEL	.00	SAND	16.67	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	81.82	(SEDIGRAPH)	1.52

GRAVEL+SAND	16.67	SILT/(SILT+CLAY)	98.18	PCT.GRAV+SAND/SILT+CLAY	.20
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT	

2-072-074

180.281 SEDIGRAPH ANALYSIS

02/23/81

PHI FCT. CUMPCT.

3.50 ASSUMED UPPER LIMIT

4.00	15.92	15.92	*****
4.50	34.33	50.25	*****
5.00	36.32	86.57	*****
5.50	8.46	95.02	**
6.00	1.99	97.01	
6.50	.50	97.51	
7.00	.50	98.01	
7.50	0.00	98.01	
8.00	.50	98.51	
8.50	0.00	98.51	
9.00	0.00	98.51	
*****	1.49	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.50	5TH*****	16TH 4.00	25TH 4.13
		75TH 4.84	84TH 4.96	95TH 5.50
PCT. GRAVEL	.00	SAND 15.92	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 82.59	(SEDIGRAPH) 1.49
GRAVEL+SAND	15.92	SILT/(SILT+CLAY)	98.22	PCT.GRAV+SAND/SILT+CLAY .19
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT



2-108-110

180281 SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	3.94	3.94	****
4.50	30.54	34.48	*****
5.00	45.81	80.30	*****
5.50	12.81	93.10	*****
6.00	2.46	95.57	**
6.50	1.48	97.04	*
7.00	.49	97.54	
7.50	.49	98.03	
8.00	0.00	98.03	
8.50	.49	98.52	
9.00	0.00	98.52	
****	1.48	100.00	*

MEAN ST.DEV. SKEWNESS KURTOSIS

4.71 .57 1.07 9.31

KRUMBEIN + PETTIJOHN (1938) MOMENT MEASURES FOR SIZE RANGE 4.0 TO 9.0 PHI

4.67 .52 .15 1.28

FOLK GRAPHIC STATISTICAL PARAMETERS FOLK AND WARD, 1957

PERCENTILES	MEDIAN	4.67	5TH	4.02	16TH	4.20	25TH	4.34
			75TH	4.94	84TH	5.14	95TH	5.89
PCT. GRAVEL	.00	SAND	3.94	SILT (PIPETTE)	0.00	CLAY (PIPETTE)		0.00
				(SEDIGRAPH)	94.09	(SEDIGRAPH)		1.97
GRAVEL+SAND	3.94	SILT/(SILT+CLAY)		97.95PCT.GRAV+SAND/SILT+CLAY				.04
LABELS SHEPARD -SILT		FOLK(GMS)-MUD				(SCS)-SILT		

2-114-116

180281 SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	18.59	18.59	*****
4.50	36.18	54.77	*****
5.00	33.67	88.44	*****
5.50	7.54	95.98	*****
6.00	1.01	96.98	*
6.50	.50	97.49	*
7.00	0.00	97.49	*
7.50	.50	97.99	*
8.00	0.00	97.99	*
8.50	.50	98.49	*
9.00	.50	98.99	*
*****	1.01	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.43	5TH*****	16TH*****	25TH	4.09
			75TH	4.80	84TH	4.93
					95TH	5.44

PCT. GRAVEL	.00	SAND	18.59	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	79.40	(SEDIGRAPH)	2.01

GRAVEL+SAND 18.59 SILT/(SILT+CLAY) 97.53PCT.GRAV+SAND/SILT+CLAY .23

LABELS SHEPARD -SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT



2-120-122

180281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUMPT.

3.50 ASSUMED UPPER LIMIT

4.00	16.58	16.58	
4.50	38.19	54.77	*****
5.00	33.67	88.44	*****
5.50	7.54	95.98	*****
6.00	1.51	97.49	*
6.50	.50	97.99	*
7.00	.50	98.49	*
7.50	0.00	98.49	*
8.00	.50	98.99	*
8.50	0.00	98.99	*
9.00	.50	99.50	*
*****	.50	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.44	5TH*****	16TH*****	25TH	4.11	
			75TH	4.80	84TH	4.93	
					95TH	5.44	
PCT. GRAVEL	.00	SAND	16.58	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	82.41	(SEDIGRAPH)	1.01
GRAVEL+SAND	16.58	SILT/(SILT+CLAY)	98.80	PCT.GRAV+SAND/SILT+CLAY		.20	
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT			

2-122-124

180281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUM PCT.

3.50 ASSUMED UPPER LIMIT

4.00	15.35	15.35	*****
4.50	37.13	52.48	*****
5.00	34.16	86.63	*****
5.50	7.92	94.55	*
6.00	1.49	96.04	*
6.50	.99	97.03	*
7.00	0.00	97.03	*
7.50	0.00	97.03	*
8.00	.99	98.02	*
8.50	.50	98.51	*
9.00	.50	99.01	*
*****	.99	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.47	5TH*****	16TH 4.01	25TH 4.13
		75TH 4.83	84TH 4.96	95TH 5.65

PCT. GRAVEL	.00	SAND 15.35	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
			(SEDIGRAPH)	82.67	(SEDIGRAPH)	1.98

GRAVEL+SAND 15.35 SILT/(SILT+CLAY) 97.66 PCT. GRAV+SAND/SILT+CLAY .18

LABELS SHEPARD -SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT

2-124-126

180281 SEDIGRAPH ANALYSIS

PHI PCT. CUMPGT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	13.50	13.50	*****
4.50	32.50	46.00	*****
5.00	59.00	85.00	*****
5.50	10.00	95.00	*****
6.00	1.00	96.00	*
6.50	1.00	97.00	*
7.00	0.00	97.00	
7.50	0.00	97.00	
8.00	.50	97.50	
8.50	.50	98.00	
9.00	1.00	99.00	*
*****	1.00	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.55	5TH*****	16TH	4.04	25TH	4.18	
			75TH	4.87	84TH	4.99	95TH	5.50
PCT. GRAVEL	.00	SAND	13.50	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	84.00	(SEDIGRAPH)	2.50	
GRAVEL+SAND	13.50	SILT/(SILT+CLAY)	97.11	PCT.GRAV+SAND/SILT+CLAY			.16	
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SGS)-SANDY SILT				

02/23/81

PHI	PCT. CUM PCT.	
3.50	ASSUMED UPPER LIMIT	
	8.33	*****
4.00	8.33	*****
4.50	27.94	*****
	36.27	*****
5.00	40.20	*****
	76.47	*****
5.50	14.71	*****
	91.18	***
6.00	3.43	**
	94.61	**
6.50	1.96	
	96.57	
7.00	.49	
	97.06	*
7.50	.98	
	98.04	
8.00	0.00	
	98.04	
8.50	0.00	
	98.04	
9.00	.49	
	99.53	*
*****	1.47	
	100.00	

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.67	5TH*****	16TH 4.14	25TH 4.30
		75TH 4.98	84TH 5.26	95TH 6.10
PCT. GRAVEL	.00	SAND 8.33	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 89.71	(SEDIGRAPH) 1.96
GRAVEL+SAND	8.33	SILT/(SILT+CLAY)	97.86	PCT.GRAV+SAND/SILT+CLAY .09
LABELS SHEPARD	-SILT	FOLK(GMS)-MUD		(SCS)-SILT

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	15.00	15.00	*****
4.50	38.00	53.00	*****
5.00	35.50	88.50	*****
5.50	6.50	95.00	*****
6.00	1.00	96.00	*
6.50	0.00	96.00	*
7.00	1.00	97.00	*
7.50	0.00	97.00	*
8.00	0.00	97.00	*
8.50	1.00	98.00	*
9.00	.50	98.50	*
*****	1.50	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.46	5TH*****	16TH	4.01	25TH	4.13	
			75TH	4.81	84TH	4.94	95TH	5.50
PCT. GRAVEL	.00	SAND	15.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	82.00	(SEDIGRAPH)	3.00	
GRAVEL+SAND	15.00	SILT/(SILT+CLAY)	96.47	PCT.GRAV+SAND/SILT+CLAY	.18			
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT				

PHI FCT. CUMFCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	17.00	17.00	*****
4.50	36.00	53.00	*****
5.00	35.00	88.00	*****
5.50	7.50	95.50	*
6.00	1.50	97.00	*
6.50	1.00	98.00	
7.00	0.00	98.00	
7.50	0.00	98.00	
8.00	.50	98.50	
8.50	.50	99.00	
9.00	0.00	99.00	
*****	1.00	100.00	*

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.46	5TH*****	16TH*****	25TH	4.11
			75TH	4.81	84TH	4.94
					95TH	5.47

PCT. GRAVEL	.00	SAND	17.00	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	81.50	(SEDIGRAPH)	1.50

GRAVEL+SAND 17.00 SILT/(SILT+CLAY) 98.19 PCT. GRAV+SAND/SILT+CLAY .20

LABELS SHEPARD -SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT



02/23/81

PHI	PCT. CUMPCT.	
3.50	10.00	ASSUMED UPPER LIMIT
4.00	36.50	10.00
4.50	46.50	
5.00	87.00	
5.50	95.50	
6.00	97.00	
6.50	97.00	
7.00	97.50	
7.50	97.50	
8.00	98.00	
8.50	98.00	
9.00	98.50	
*****	100.00	

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.54	5TH*****	16TH 4.08	25TH 4.21
		75TH 4.85	84TH 4.96	95TH 5.47
PCT. GRAVEL	.00	SAND 10.00	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 88.00	(SEDIGRAPH) 2.00
GRAVEL+SAND	10.00	SILT/(SILT+CLAY)	97.78	PCT.GRAV+SAND/SILT+CLAY .11
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT

4-048-050

190281

SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUMPCT.

3.50 ASSUMED UPPER LIMIT

4.00	15.50	15.50	*****
4.50	26.50	42.00	*****
5.00	43.50	85.50	*****
5.50	7.50	93.00	*****
6.00	1.50	94.50	*
6.50	1.00	95.50	*
7.00	.50	96.00	
7.50	.50	96.50	
8.00	.50	97.00	
8.50	.50	97.50	
9.00	.50	98.00	
*****	2.00	100.00	**

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.59	5TH*****	16TH	4.01	25TH	4.18	
			75TH	4.88	84TH	4.98	95TH	6.25
PCT. GRAVEL	.00	SAND	15.50	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	81.50	(SEDIGRAPH)	3.00	
GRAVEL+SAND	15.50	SILT/(SILT+CLAY)	96.45	PCT.GRAV+SAND/SILT+CLAY			.18	
LABELS SHEPARD	-SILT	FOLK(GMS)	-SANDY MUD	(SCS)	-SANDY SILT			



4-050-052

190281

SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUMPT.

3.50 ASSUMED UPPER LIMIT

4.00	16.67	16.67	*****
4.50	34.31	50.98	*****
5.00	36.76	87.75	*****
5.50	7.35	95.10	*
6.00	1.47	96.57	
6.50	.49	97.06	
7.00	.49	97.55	
7.50	0.00	97.55	
8.00	.49	98.04	
8.50	0.00	98.04	
9.00	0.00	98.04	**
*****	1.96	100.00	

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.49	5TH*****	16TH*****	25TH 4.12
		75TH 4.83	84TH 4.95	95TH 5.49
PCT. GRAVEL	.00	SAND 16.67	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 81.37	(SEDIGRAPH) 1.96
GRAVEL+SAND	16.67	SILT/(SILT+CLAY)	97.65	PCT.GRAV+SAND/SILT+CLAY .20
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT

4-052-054

190281 SEDIGRAPH ANALYSIS

02/23/81

PHI PCT. CUM PCT.

3.50 ASSUMED UPPER LIMIT

4.00	16.16	16.16	*****
4.50	36.36	52.53	*****
5.00	32.32	84.85	*****
5.50	8.08	92.93	*****
6.00	1.52	94.44	*
6.50	.51	94.95	*
7.00	.51	95.45	*
7.50	0.00	95.45	*
8.00	.51	95.96	*
8.50	1.01	96.97	*
9.00	0.00	96.97	***
*****	3.03	100.00	***

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.47	5TH*****	16TH*****	25TH 4.12
		75TH 4.85	84TH 4.99	95TH 6.55
PCT. GRAVEL	.00	SAND 16.16	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 79.80	(SEDIGRAPH) 4.04
GRAVEL+SAND	16.16	SILT/(SILT+CLAY)	95.18	PCT.GRAV+SAND/SILT+CLAY .19
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT

4-054-056

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PHI PCT. CUM PCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	14.56	14.56	*****
4.50	36.89	51.46	*****
5.00	34.47	85.92	*****
5.50	8.74	94.66	*****
6.00	.49	95.15	*
6.50	.97	96.12	
7.00	.49	96.60	
7.50	0.00	96.60	
8.00	0.00	96.60	
8.50	.49	97.09	
9.00	.49	97.57	**
*****	2.43	100.00	

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.48	5TH*****	16TH	4.02	25TH	4.14	
			75TH	4.84	84TH	4.97	95TH	5.85
PCT. GRAVEL	.00	SAND	14.56	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00	
				(SEDIGRAPH)	82.04	(SEDIGRAPH)	3.40	
GRAVEL+SAND	14.56	SILT/(SILT+CLAY)	96.02	PCT.GRAV+SAND/SILT+CLAY			.17	
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT				

4-070-072

190281 SEDIGRAPH ANALYSIS

PHI PCT. CUMFCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	17.50	17.50	*****
4.50	42.50	60.00	*****
5.00	29.00	89.00	*****
5.50	6.00	95.00	*****
6.00	.50	95.50	
6.50	0.00	95.50	
7.00	0.00	95.50	
7.50	.50	96.00	
8.00	1.00	97.00	
8.50	.50	97.50	
9.00	.50	98.00	
*****	2.00	100.00	**

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN 4.38	5TH*****	16TH*****	25TH 4.09
		75TH 4.76	84TH 4.91	95TH 5.50
PCT. GRAVEL	.00	SAND 17.50	SILT (PIPETTE) 0.00	CLAY (PIPETTE) 0.00
			(SEDIGRAPH) 79.50	(SEDIGRAPH) 3.00
GRAVEL+SAND	17.50	SILT/(SILT+CLAY)	96.36	PCT.GRAV+SAND/SILT+CLAY .21
LABELS SHEPARD	-SILT	FOLK(GMS)-SANDY MUD		(SCS)-SANDY SILT

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4-072-074 190281 SEDIGRAPH ANALYSIS

PHI PCT. CUMPCT.

02/23/81

3.50 ASSUMED UPPER LIMIT

4.00	10.78	10.78	*****
4.50	42.16	52.94	*****
5.00	33.82	86.76	*****
5.50	6.86	93.63	**
6.00	2.45	96.08	
6.50	0.00	96.08	
7.00	.49	96.57	
7.50	.49	97.06	
8.00	0.00	97.06	
8.50	.49	97.55	
9.00	.49	98.04	
*****	1.96	100.00	**

NO STATISTICS ARE COMPUTED BECAUSE THE UPPER SIZE LIMIT IS ASSUMED AND THIS AFFECTS MORE THAN 5 PERCENT OF THE SAMPLE

PERCENTILES	MEDIAN	4.47	5TH*****	16TH	4.06	25TH	4.17	
			75TH	4.83	84TH	4.96	95TH	5.78

PCT. GRAVEL	.00	SAND	10.78	SILT (PIPETTE)	0.00	CLAY (PIPETTE)	0.00
				(SEDIGRAPH)	86.27	(SEDIGRAPH)	2.94

GRAVEL+SAND 10.78 SILT/(SILT+CLAY) 96.70 PCT. GRAV+SAND/SILT+CLAY .12

LABELS SHEPARD -SILT FOLK(GMS)-SANDY MUD (SCS)-SANDY SILT