

SIEVING ERROR: 0.2%

**SAMPLE STATISTICS**SAMPLE IDENTITY: **PEN-91-04\_75**

ANALYST &amp; DATE: SA/RM, 8/19/91

SAMPLE TYPE: Bimodal, Moderately Well Sorted

TEXTURAL GROUP: Sand

SEDIMENT NAME: Moderately Well Sorted Fine Sand

|                       | $\mu\text{m}$     | $\phi$        | GRAIN SIZE DISTRIBUTION |                     |             |                        |
|-----------------------|-------------------|---------------|-------------------------|---------------------|-------------|------------------------|
| MODE 1:               | 193.5             | 2.375         | GRAVEL: 0.0%            | COARSE SAND: 1.4%   |             |                        |
| MODE 2:               | 273.5             | 1.876         | SAND: 100.0%            | MEDIUM SAND: 16.8%  |             |                        |
| MODE 3:               |                   |               | MUD: 0.0%               | FINE SAND: 64.2%    |             |                        |
| $D_{10}$ :            | 112.1             | 1.809         |                         | V FINE SAND: 17.7%  |             |                        |
| MEDIAN or $D_{50}$ :  | 172.4             | 2.536         | V COARSE GRAVEL: 0.0%   | V COARSE SILT: 0.0% |             |                        |
| $D_{90}$ :            | 285.4             | 3.157         | COARSE GRAVEL: 0.0%     | COARSE SILT: 0.0%   |             |                        |
| $(D_{90} / D_{10})$ : | 2.545             | 1.745         | MEDIUM GRAVEL: 0.0%     | MEDIUM SILT: 0.0%   |             |                        |
| $(D_{90} - D_{10})$ : | 173.3             | 1.348         | FINE GRAVEL: 0.0%       | FINE SILT: 0.0%     |             |                        |
| $(D_{75} / D_{25})$ : | 1.614             | 1.314         | V FINE GRAVEL: 0.0%     | V FINE SILT: 0.0%   |             |                        |
| $(D_{75} - D_{25})$ : | 82.97             | 0.691         | V COARSE SAND: 0.0%     | CLAY: 0.0%          |             |                        |
|                       | METHOD OF MOMENTS |               |                         | FOLK & WARD METHOD  |             |                        |
|                       | Arithmetic        | Geometric     | Logarithmic             | Geometric           | Logarithmic | Description            |
|                       | $\mu\text{m}$     | $\mu\text{m}$ | $\phi$                  | $\mu\text{m}$       | $\phi$      |                        |
| MEAN ( $\bar{x}$ ):   | 192.6             | 177.0         | 2.498                   | 175.9               | 2.507       | Fine Sand              |
| SORTING ( $\sigma$ ): | 92.76             | 1.465         | 0.550                   | 1.446               | 0.532       | Moderately Well Sorted |
| SKEWNESS ( $Sk$ ):    | 3.215             | 0.737         | -0.737                  | 0.111               | -0.111      | Coarse Skewed          |
| KURTOSIS ( $K$ ):     | 20.51             | 4.364         | 4.364                   | 1.021               | 1.021       | Mesokurtic             |

**GRAIN SIZE DISTRIBUTION**