

SIEVING ERROR: 0.4%

**SAMPLE STATISTICS**SAMPLE IDENTITY: **PEN-91-02\_100**

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

SAMPLE TYPE: Polymodal, Moderately Sorted

TEXTURAL GROUP: Sand

SEDIMENT NAME: Moderately Sorted Medium Sand

|                                       | $\mu\text{m}$     | $\phi$        | GRAIN SIZE DISTRIBUTION |                     |             |                   |
|---------------------------------------|-------------------|---------------|-------------------------|---------------------|-------------|-------------------|
| MODE 1:                               | 273.5             | 1.876         | GRAVEL: 0.0%            | COARSE SAND: 16.5%  |             |                   |
| MODE 2:                               | 193.5             | 2.375         | SAND: 99.8%             | MEDIUM SAND: 47.6%  |             |                   |
| MODE 3:                               | 460.0             | 1.126         | MUD: 0.2%               | FINE SAND: 28.7%    |             |                   |
| D <sub>10</sub> :                     | 176.5             | 0.547         |                         | V FINE SAND: 1.4%   |             |                   |
| MEDIAN or D <sub>50</sub> :           | 296.0             | 1.757         | V COARSE GRAVEL: 0.0%   | V COARSE SILT: 0.2% |             |                   |
| D <sub>90</sub> :                     | 684.4             | 2.503         | COARSE GRAVEL: 0.0%     | COARSE SILT: 0.0%   |             |                   |
| (D <sub>90</sub> / D <sub>10</sub> ): | 3.879             | 4.575         | MEDIUM GRAVEL: 0.0%     | MEDIUM SILT: 0.0%   |             |                   |
| (D <sub>90</sub> - D <sub>10</sub> ): | 507.9             | 1.956         | FINE GRAVEL: 0.0%       | FINE SILT: 0.0%     |             |                   |
| (D <sub>75</sub> / D <sub>25</sub> ): | 2.112             | 1.999         | V FINE GRAVEL: 0.0%     | V FINE SILT: 0.0%   |             |                   |
| (D <sub>75</sub> - D <sub>25</sub> ): | 249.1             | 1.078         | V COARSE SAND: 5.5%     | 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 ( $\bar{x}$ ):                   | 402.9             | 333.1         | 1.586                   | 317.8               | 1.654       | Medium Sand       |
| SORTING ( $\sigma$ ):                 | 299.1             | 1.776         | 0.828                   | 1.765               | 0.820       | Moderately Sorted |
| SKEWNESS ( $Sk$ ):                    | 2.395             | 0.643         | -0.643                  | 0.263               | -0.263      | Coarse Skewed     |
| KURTOSIS ( $K$ ):                     | 9.005             | 3.589         | 3.589                   | 1.088               | 1.088       | Mesokurtic        |

**GRAIN SIZE DISTRIBUTION**