

# GRAINGER LABORATORIES

INCORPORATED

## ANALYTICAL AND CONSULTING CHEMISTS

709 West Johnson Street

Raleigh, North Carolina 27603

(919) 828-3360

### ANALYTICAL LABORATORY

Environment Analysis  
Construction Materials  
Identification of Unknowns  
Agriculture  
Fuels  
Textiles  
Chemicals  
Hazardous Waste

September 23, 1982  
82-4805

Commanding General  
Marine Corp. Base  
Camp Lejeune, NC 28542

Attention: AC/S Facilities

Subject: Analyses of samples received 9/7/82

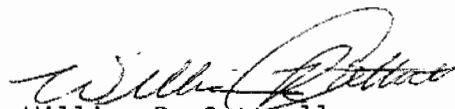
Sample Identification: Purchase Order M93182-2242-0001

1. HB, 0930, 8.2, 19
2. TT, 0945, 8.2, 20
3. MP, 1005, 7.1, 20
4. NR, 1035, 7.6, 20
5. RR, 1100, 8.0, 23
6. CHB, 1125, 7.9, 21
7. OB, 1145, 7.1, 21
8. HP, 1210, 8.8, 20

For results see attached page.

### CONSULTATION

Metallurgical Services  
Pollution Abatement  
Process Development  
Quality Control  
Methods Development  
Special Investigation  
Pesticides  
RCRA

  
William R. Cottrell  
Laboratory Supervisor

WRC/ab  
cc: Elizabeth Betz



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RESULTS

|   | <u>1</u> | <u>2</u> | <u>3</u> | <u>4</u> | <u>5</u> | <u>6</u> | <u>7</u> | <u>8</u> |
|---|----------|----------|----------|----------|----------|----------|----------|----------|
| pH  | 8.20     | 8.20     | 7.10     | 7.6      | 8.00     | 7.90     | 7.1      | 8.80     |
| Temperature, °C                               | 19.0     | 20.0     | 20.0     | 20.0     | 23.0     | 21.0     | 21.0     | 20.0     |
| Total Alkalinity, as CaCO <sub>3</sub> , mg/l | 82.3     | 76.4     | 166      | 136      | 151      | 164      | 155      | 51.9     |
| Total Filterable Residue, mg/l                | 10       | 152      | 126      | 320      | 230      | 246      | 140      | 106      |
| Calcium, as CaCO <sub>3</sub> , mg/l          | 56.1     | 101      | 41.9     | 48.0     | 44.3     | 50.0     | 111      | 40.9     |
| Stability Index (Langelier)                   | 0.03     | 0.19     | -0.95    | -0.59    | 0.06     | -0.12    | -0.54    | 0.25     |
| Sodium, as Na, mg/l                           | 24.4     | 19.8     | 81.9     | 79.8     | 88.7     | 81.5     | 66.4     | 20.7     |

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