

**LABORATORIES, INC.**  
Geotechnical & Materials Consultants

October 10, 1995

**Roadbond Service** Company, Inc.  
P.O. Box 1355  
Weatherford, Texas 76086

Attention: Mr. Irvin Merritt

Reference: EN 1 Roadbase Stabilizer

Dear Mr. Merritt:

As per your request, QC Laboratories, Inc. has completed tests for California Bearing Ratio using a clay soil mixed with hydrated lime and a clay soil mixed with **hydrated** lime and EN 1. The purpose of the testing was to determine what effect EN 1 would have on a lime treated soil.

The soil selected for testing had a **Plasticity** Index of 28 percent prior to addition of hydrated lime. The soil was dried and pulverized to pass a No. 4 sieve. Four (4) percent hydrated lime was added to each sample. One sample was water conditioned to slightly above optimum moisture content and another was treated with an EN 1 solution and then the water content was adjusted to slightly above optimum.

The samples were compacted to 100% maximum dry density and allowed to water soak for 96 hours. Measurements were taken of the initial height of the specimens and height after soaking.

The results of the tests are as follows:

Sample No.	Description	CBR Value %	% Swell
1	<b>Dark Gray Clay W/Lime</b>	8.3	0.11
2	Dark Gray Clay W/Lime & EN 1	14.2	0.04