Roadway Soil Survey Hartwood Marsh Road From US-27 to Lake/Orange County Line Lake County, Florida





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Ardaman & Associates, Inc.

Geotechnical, Environmental and Materials Consultants

March 14, 2006 File No. 05-6844

HNTB 300 Primera Boulevard, Suite 200 Lake Mary, Florida 32746 DRAFT

Attention:

Ms. Karen Van den Avont, P.E.

Subject:

Roadway Soil Survey Hartwood Marsh Road

(Not Including a Portion of the Proposed Roadway

in the Tarmac Mine Property)

From US-27 to Lake/Orange County Line

Lake County, Florida

Dear Ms. Van den Avont:

As requested and authorized, we have completed a roadway soil survey for the Hartwood Marsh Road project, not including the majority of the proposed alignment through the Tarmac Mine property. The purpose of performing this exploration was to evaluate the general subsurface conditions within the roadway areas and to provide recommendations relative to site preparation and pavement design. This report documents our findings.

This report has been prepared in accordance with generally accepted geotechnical engineering practices for specific application to the project area indicated in this report. No other warranty, expressed or implied, is made. The soils information and recommendations submitted herein are based on the data obtained from the soil borings presented on Figure 4 through Figure 20. This report does not reflect any variations which may occur between the borings. The nature and extent of the variations between the borings may not become evident until during construction.

We note that this report does not include a portion of the proposed alignment in the Tarmac Mine property. The dry land portion of the Tarmac Mine property was explored previously by Ardaman & Associates (reference Subsurface Soil Exploration and Preliminary Geotechnical Engineering Evaluation, Proposed Realignment of Hartwood Marsh Road through Tarmac Mine Facility report, dated October 29, 2003, A & A File No. 03-6402). The wet portion of the mine has not been explored. The Tarmac Mine property will be addressed in a separate report once the exploration of the current wet portion of the mine has been completed, or otherwise addressed, and after more information is available regarding the proposed alignment and roadway elevation through the mine.

It is a pleasure assisting you with this phase of the project. If you have any questions, or when we may be of further assistance to you, please do not hesitate to contact us.

Very truly yours, ARDAMAN & ASSOCIATES, INC.



Aries B. Patawaran, PhD Assistant Project Engineer

Charles H. Cunningham, P.E. Division Manager Florida Registration No. 38189

ABP/CHC/nfm/ksb

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