

MATERIALS INFORMATION

OPTIONAL DISPOSAL/MATERIAL SITES

ROUTE: 03-Sie-49-16.9/41.4

Summary of Investigations

Investigations carried out on the existing road, Sie-49 PM 16.9/41.4, indicate that these materials are suitable for recycling. Laboratory tests conducted on samples extracted from test-pits indicate that the engineering properties of these materials may be improved to provide sufficient strength required to extend the life of this pavement for ten years by the addition of foamed bitumen.

The general structural section, from the bottom up, is native material, aggregate base and asphalt concrete. Basement soil is non-plastic, brown, moist, sandy silt with approximately 70% hard gravel particles, maximum size 2.5". Native materials were designated SM under the Unified Soil Classification.

The existing AC appears to be severely oxidized with the majority of the roadway exhibiting failures in all wheelpaths. Typical failure mode appears to be severe alligator and block cracking.

Investigations indicated that the material in the existing pavement includes between 0.25' and 0.65' of hot mix asphalt, with one location of 0.95' hot mix asphalt at the beginning of the project. See attached chart.

A foam mix design was performed utilizing the in-situ material. Based on a foamed asphalt content of 3% by weight of material and cement content of 2% by weight of the material, the average strength of test specimens was 424 kPa dry and 410 kPa wet.

Any reliance placed by the contractor on this information shall be at their own risk and they shall undertake their own separate testing program to determine the materials present and conditions prevailing at the time of construction.

SIE-49

