STAFF REPORT

TO: Chair and Members, Engineering Services Committee

FROM: Transportation Manager, Roger Ashworth

REFERENCE: F351

DATE: 13 April 2006

SUBJECT: **EMERGENCY WORKS – GOLDEN BAY**

PURPOSE:

To request the Committee to approve funding from the General Disaster Fund for flood damage in Golden Bay.

BACKGROUND:

In November, 2005 a series of small isolated events caused damage to the Wainui Hill section of the Abel Tasman Drive. Seven sites on the hill section require treatment. This section of roadway has experienced ongoing movement for some time. Commonly known as the Separation Point Granite the formation is well-known for its soft, weathered and highly erodable nature due to the almost complete breakdown of feldspar and mica clay minerals. In engineering geological terms, the surface material varies from sandy clay to clay-fine sand.

Photographs of some of the sites are attached. Discharge from culverts at some of the locations has contributed to slumping and, as part of the remedial works, we are checking all culverts and side drains on the Abel Tasman Drive over the Wainui Hill and installing flumes or socks to prevent water discharge on to the slopes. This has also been reinforced to our maintenance contractor to ensure regular maintenance of the drainage system as part of our road maintenance contract. The total cost of works is estimated at $300,000.00.

A relatively new innovation that is being used and was recommended for use on three of the sites is treating the slump face with soil nails and erosion blanket. This type of treatment is successful and cost-effective in some areas, however not all of these sites are appropriate for this treatment.

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RECOMMENDATION:

THAT Council approves the local share of funding of $153,000 from the General Disaster Fund.

Roger Ashworth
Transportation Manager