

Additional Stabilization Material > 3.2 km Hauls

Issue

Deriving a non - tabular cost estimation and submission process for Additional Stabilizing Materials hauled greater than 3.2 km as per section 5.3.4(1)(c)(iii) of the Coast Appraisal Manual (CAM).

Formulas

Where no suitable material is available within 3.2 km of a Bank Height road section, the following formulas are to be used when that road section requires additional stabilizing material. The material must be hauled greater than 3.2 km from a source to the centre point of the receiving Bank Height road section.

The following method should be used to derive this project cost:

Cost Estimate (\$/km) :

$$\text{Cost Estimate (\$/km)} = V \times U.$$

Volume (V) =

The volume(s) to be used in calculation is 3 000 cubic metre per km.

This volume is based upon an average depth of 0.45 per metre for “Other Material” bank height categories only. This average depth is for the range of sideslopes that are eligible for surfacing in Table Appendix VIII-3 for each sideslope and construction category.

Material Cost (U) =

The formulas for unit cost will be:

$$\$0.616 (d - 3.2) / m^3$$

d – the actual distance (km) as measured from the centre of the Bank Height road section requiring additional stabilizing material to the closest available source of the additional stabilizing material.

Process

Submitting forest professional may choice for step 1 to hand calculate, use an EXCEL spread or any other method of calculating cost but it must be attached to the appraisal data submission.

Step 2 entry into ECAS must be followed.

1. Enter the data for each road section that requires additional stabilizing material beyond 3.2 km into the EXCEL spread sheet to generate Total Cost:

| Additional Stabilizing Material beyond 3.2 km | | | | | | |
|---|-------|-------|-----------------------------|---------------|--------------------------|------------------------|
| Road Name | From | To | Section Length | Haul Distance | Pit Location | Total Cost for Section |
| Is-T-2harvest Road | 11256 | 11336 | 0.080 | 4.900 | Is-T-2harvest Road 6+396 | \$251.33 |
| Is-T-2harvest Road | 15600 | 15650 | 0.050 | 9.229 | Is-T-2harvest Road 6+396 | \$557.08 |
| | | | Total Length of Road | 0.13 | | |
| | | | | | Total Cost | \$808 |

2. In Detailed Engineering (ECAS40) screen enter each of the following in the “New Construction” section:

- (a) Cost Estimate Identifier – use **AS**
- (b) Total Project(s) Road Length (m) – use spread sheet “Total Length of Road”
- (c) Total Project(s) Cost (\$) - use spread sheet “Total Cost”
- (d) Comments – state that its **Additional Stab Material**

New Construction

| Cost Estimate Identifier | Total Length of Road (km) | Crown % | Amortized % | Total Cost (\$) | Appraisal Year | Comments |
|--------------------------|---------------------------|--------------------------|--------------------------|------------------------|------------------------|--------------------------|
| <input type="text"/> * | <input type="text"/> | <input type="text"/> 100 | <input type="text"/> 100 | <input type="text"/> * | <input type="text"/> * | <input type="text"/> |
| AS | .13 | 100 | 100 | 808 | 2008 | Additional Stab Material |
| Total for 2008: | 0.13 | | | 808 | 2008 | |
| Total: | | | | 808 | | |

Reconstruction and Replacement

| Cost Estimate Identifier | Total Length of Road (km) | Crown % | Amortized % | Total Cost (\$) | Appraisal Year | Comments |
|--------------------------|---------------------------|--------------------------|--------------------------|----------------------|------------------------|----------------------|
| <input type="text"/> * | <input type="text"/> * | <input type="text"/> 100 | <input type="text"/> 100 | <input type="text"/> | <input type="text"/> * | <input type="text"/> |
| CEF1 | 4.2 | 100 | 100 | 18685 | 2008 | Storm Damage Repairs |
| Total for 2008: | 4.2 | | | 18685 | 2008 | |
| Total: | | | | 18685 | | |