Asset monitoring flowchart

MONITORING

Annual maintenance programme

1. Establish (annual)
2. Review and comparison (three-yearly)

Capital expenditure

1. Review against budgets provided (annual)
2. Prioritise list of works required to deliver the desired Level of Service as determined in the FMP (annual)

Inspections (routine)

1. Operations staff (annual)
2. FP managers (bi-annual)
3. Peer review (annual)
4. Flood events

Levels of Service & Performance Measures (specific)

1. Evaluation of flood protection and erosion performance measures from monitoring activities (varies between two to ten yearly)

Aerial photography

1. Mosaics (annual)
2. Orthographic photography (five-yearly)
3. Overlay alignment (five-yearly)

Survey

1. Dam survey (ten-yearly)
2. Dam catchment hydrology review (ten-yearly)
3. Comprehensive Safety Review (CSR) of dams (five-yearly)
4. Top of stopbank (five-yearly)

Asset register

1. Full review and update of asset registers (three-yearly)
2. Unit rate revaluation and peer review (three-yearly)

MONITORING COMPLETED

1. Programme established and maintenance works materially completed. Kapiti inspections noted some rock supplies difficult to obtain, This will be addressed in 2004-05

2. Zero based review next due 2005-06

1. Completed in 2002/03 as part of LTFS review.

2. Completed in 2002/03 as part of LTFS review.

1. Completed (ongoing)

2. Mid-year completed

3. Completed

4. On 15-16 Feb 2004 there was a 30yr return period flood in the Wainuiomata River. Major damage to willow lines and bank edges.

5. No significant flood events in other AMP rivers.

***Flood Warning**. No significant events in 03-04 except Wainuiomata Some concerns re response times, but these were addressed in debrief.*

***Flood Protection**. Sufficient maintenance of stopbanks and berms completed to maintain the specified level of service.*

Berm erosion performance measure.
Discrepancies in the measurement systems mean that comparisons are difficult to be reviewed in 04/05.

***Environmental.** Public access maintained. Joint trial with BotSoc using natives as river edge plants.*

1. Aerials flown for Hutt, Wainuiomata, Waikanae, Otaki

2. On track. Extended to 10-year intervals.

3. Alignment always plotted onto latest photography. Done when photos were rubber sheeted.

1. Stebbings completed 01-02. Next due 2006. Seton Nossiter to be reviewed and date set.

2. S Nossiter completed 2001/02. Next due 2012. Stebbings to be reviewed and date set.

3. S Nossiter CSR completed 2002/03. Stebbings to be reviewed and date set.

4. Otaki due 2004/05 Waikanae due 2006/07 Wainuiomata due 2007/08 Porirua due 2007/08

1. Asset register corrected and audited as at 30 June 2002. Annual change schedule completed for 02/03, 03/04.

2. Revaluation (as at 30 June 2002) completed and audited due 2005.