Asset monitoring flowchart

MONITORING

Annual maintenance programme

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

MONITORING COMPLETED

1. ***Programme established and maintenance works materially completed. Kapiti inspections noted some rock work required, which will be addressed in 2003/04.***
2. ***Zero based review completed during 2002/03.***

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)

MONITORING COMPLETED

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

Inspections (routine)

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

MONITORING COMPLETED

1. ***Completed***
2. ***Mid-year completed***
3. ***Completed***
4. ***On 9 June 2003 there was a 6yr return period flood in the Wainuiomata River. Minor damage only to willow lines.***

No significant flood events in other rivers.

Levels of Service & Performance Measures (specific)

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

MONITORING COMPLETED

Flood Warning*. No significant events in 02-03 except Wainuiomata No concerns with the service provided.*

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

Berm erosion performance measure.

Hutt: *Improved from 14% to 8%*

Otaki: *Improved from 13% to 10%*

Waikanae: *weakened from 13% to 15.5%. (possibly due to discrepancies in the measurement methods. A simple standard method has now been adopted and has been documented for future measurements)*

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

Aerial photography

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

MONITORING COMPLETED

1. ***Decision made to defer this year. Existing mosaics adequate.***
2. ***On track. Extended to 10-year intervals.***
3. ***Last completed 2002. Due March 2004 following new mosaic photography.***

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)

MONITORING COMPLETED

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. ***Hutt due 2003/04***
   Otaki due 2004/05
   Waikanae due 2006/07
   Wainuiomata due 2007/08
   Porirua due 2007/08

Asset register

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

MONITORING COMPLETED

1. ***Asset register corrected and audited as at 30 June 2002. Annual change schedule completed.***
2. ***Revaluation (as at 30 June 2002) completed and audited.***