

LOWER WAIRARAPA VALLEY DEVELOPMENT SCHEME

ASSET MANAGEMENT PLAN

PERFORMANCE STATEMENT 2002/03

1. Financial

- Deferred asset maintenance requirements not to exceed \$100,000 in any year.
Current deferred maintenance is \$25,000.

Criteria satisfied

- Scheme not to incur or carry financial deficit without Council approval.
The scheme reserve balance is \$1,314,636, and the Major Flood Investment Fund balance is \$203,454.

Criteria satisfied

- Average flood damage expenditure not to exceed 20% of the total Scheme expenditure over a five year period.

Total Scheme expenditure over the last 5 years - \$3,520,000

Total flood damage expenditure over the same period - \$250,000 (7.16%)

5 Yearly Criteria satisfied

2. Stopbanks

- Flood capacity of major stopbanks to be reviewed and compared to design flood capacity.

Comparison done. The nominal standard of the stopbanks between Waihenga Bridge and Tuhitarata Bridge is 20 years with free board, and below Tuhitarata Bridge is 50 years with free board. The present capacity of the stopbanks in these two reaches is within the nominal capacity as per MIKE II model.

5 Yearly Criteria satisfied

- 0% (<5%) of the stopbank length has deferred maintenance.

Criteria satisfied

- 10.0% (=10%) of the stopbanks have a berm width of less than 10 metres.

The lengths of stopbanks with less than 10 m berm width below Barrage Gates have been considered in the above figure. The berm width, above Tuhitarata Bridge, at many places measure less than 10 m, however the present maintenance plan for that area is to protect the banks rather than increase the berm width, as otherwise the channel width would not be sufficient. This will be reviewed as part of the LWVDS Review.

The stopbanks below the Barrage Gates are vulnerable to wave erosion. The area has been mapped and priorities for repair have been established. Repairs are being carried out in a limited way at present. This will be addressed as part of the LWVDS Review.

Criteria satisfied

- As-built stopbank formation levels and dimensions to be restored within 3 months of minor surface damage being reported, and within 1 month of major surface damage being reported. Grass cover to be restored within 3 months of bare patches being reported. Rabbit hole and subsidence damage to be repaired within 1 month of being reported. Trees and scrub on the stopbank to be removed within 3 months of being reported.
Some of the stock damaged stopbanks remains to be repaired by the landowners.

Criteria not satisfied

3. Heavy bank Protection

- Repairs to damaged heavy bank protection structures to be carried out within the same financial year.
There was no damage to heavy bank protection structures this year.

Criteria satisfied

4. Vegetation Buffer Zone

- Less than 1% (<10%) of the length of riverbanks was subject to active bank erosion.

Criteria satisfied

- No more than 5% of the designated buffer zone area to be lost to river erosion.

Total area of the buffer zone five years ago – 220.59ha.

Total area now – 353.25ha.

5 Yearly Criteria satisfied

- Stock exclusion fencing to be maintained in satisfactory condition, and landowners to be prevented from grazing buffer zone areas.

Criteria satisfied

5. Fences

- 1.0 km (<2km) of boundary fence was renewed.
Funds diverted to more urgent work due to June 2002 flood event. Although a target of 2km is set, this item is not critical.

Criteria not satisfied

6. Floodway Sills

- As-built sill formation level to be compared to design level.
Awaroa – Except X-section 60, the average sill level has increased by 0.07m.
Hikunui – The average sill level has decreased by 0.04m

5 Yearly Criteria satisfied

- Deferred maintenance requirement to be nil.
No deferred maintenance work.

Criteria satisfied

- As-built sill formation level to be restored within 1 month of damages being reported. Grass cover to be restored within 1 month of bare patches being reported. Rabbit hole and subsidence damage to be repaired within 1 month of being reported. Trees and scrub on the sill to be removed within 3 months of being reported. Scouring upstream and downstream of the sill to be repaired within one month of being reported.

Criteria satisfied

7. Ducksbill

- The “Ducksbill” to be inspected every six months, and after each major flood, and damage to the mattresses and baskets to be repaired within 3 months.

Criteria satisfied

- Damaged reinforced grass to be repaired within 1 month of bare patches being reported.

Criteria satisfied

- Deferred maintenance to be nil.

Criteria satisfied

- The Reno mattresses to be kept free of vegetation, and the grass on the batter slopes and berm to be mowed regularly and maintained in a healthy state.

Criteria satisfied

8. Culverts and Floodgates

- All floodgates and culverts to be inspected annually for diameters greater than 600 mm, and once every three years for diameters less than 600 mm.

Criteria satisfied

- Floodgate damage and culvert blockages to be repaired within 1 month, and external reports of damage to be responded to within 10 working days.
Critical culverts cleaned & repaired. Some culverts need cleaning & repair.

Criteria partially satisfied

- A structural assessment of large floodgate structures to be undertaken, including visual inspection of the culvert interior.
Inspection carried out.

5 Yearly Criteria satisfied

9. Grade Control Structures

- Deferred maintenance requirement to be nil.
Repairs to Manganui Rock Ramp Grade Control structures completed.
- Rail and timber grade control structures to be inspected annually and damages to be repaired within 3 months.
Inspected & repairs scheduled for next financial year. Not critical.

Criteria satisfied

Criteria partially satisfied

- Reinforced concrete grade control structures to be inspected five yearly and damages to be repaired within 3 months.
Inspected. No repairs needed.

5 Yearly Criteria satisfied

10. Barrage Radial Gates

- Control House Telemetry to be inspected six monthly with repairs effected within 1 month.
Inspections and maintenance were carried out by Hydrology Section within above time limits.

Criteria satisfied

- The lifting/lowering mechanism to be inspected six monthly with repairs to be effected within 1 month.
Inspected once, and repairs carried out. Ropes changed in No. 1 & 6 gates. One motor replaced. Others would be replaced in 2003/04.

Criteria satisfied

- General inspection of the Barrage, control joints, and abutments to be carried out annually with maintenance scheduled for the following year.
The control room maintenance work completed.

Criteria satisfied

- Radial Gates to be inspected five yearly and any painting requirements to be scheduled for the following year.
Gates inspected by paint supplier, and painting of the lower half of the gates recommended. This work has been scheduled for this financial year.

5 Yearly Criteria satisfied

- The channel to be inspected for any blockages after major flood events, and the maintenance requirements to be scheduled for the following year.
*No major flood events -
Not applicable*
- The structure to be thoroughly examined for any earthquake damage.
*No major earthquakes -
Not applicable*

11. Environment

- River management practices to conform to Regional Freshwater Plan, Regional Soil Plan, and Scheme Resource Consent conditions.
Criteria satisfied

12. Consultative

- Annual reports, Scheme financial statements, and works programmes to be adopted at Advisory Committee meetings.
Criteria satisfied
- Ratepayer satisfaction to be gauged at Ward meetings.
Criteria satisfied
- Annual rates, annual reports, and Scheme reviews to be approved by the Council.
Criteria satisfied
- Consultation with the Department of Conservation, Wellington Fish and Game Council, and Tangata Whenua to be undertaken consistent with Scheme Resource Consent requirements.
Criteria satisfied

13. Overall

- Council endorsement of Scheme management approach to be obtained in 5 yearly reviews.
Major review of the Scheme commenced, and will be completed by the end of the 2004/05 year.
5 Yearly Criteria satisfied
- Scheme maintenance standards to be endorsed as part of the annual peer review process for Wairarapa river management practices.
Lower Valley and Waiohine Schemes assets were inspected as part of this year's peer review. The reviewers have endorsed the maintenance standard. They have however stressed the importance of addressing stopbank maintenance issues at Onoke on a priority basis..
Criteria satisfied

SCHEDULE OF SUPPORTING DOCUMENTATION

Minutes of Advisory Committee Meetings.
Minutes of Ward meetings.
Annual scheme reports & financial statements.
Completed and proposed works programmes
Updated Asset Register, and the Financial Projections for the next 20 years.
Log of inspections, repair requirements, and remedial works.
Peer Review Report.

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