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## **Report 00.627**

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Report to the Rural Services and Wairarapa Committee  
from Ian Heslop, Divisional Engineer

### **River Scheme Asset Management Plan Performance**

#### **1. Purpose**

- 1.1 To present the Committee with Performance Statements for the Asset Management Plans produced for five river management schemes within the Wairarapa.
- 1.2 To advise the Committee of differences identified between current and desirable works programme levels.
- 1.3 To inform the Committee of the outcome of the recent audit of Wairarapa river management works carried out by the Council's Flood Protection Group.

#### **2. Background**

- 2.1 The Local Government Amendment Act (No. 3) of 1996 requires Strategic Financial Plans to be prepared for the infrastructural assets under Council control. Asset Management Plans provide the basis for preparation of credible financial plans.
- 2.2 Basic Asset Management Plans have been prepared for 5 river management Schemes serviced by the Wairarapa Division as listed below.
  - Lower Wairarapa Valley Development Scheme
  - Waiohine-Mangatarere
  - Upper Ruamahanga
  - Waingawa River
  - Waipoua River
- 2.3 These plans are "live" documents, and will be improved and updated on an ongoing basis. In particular the asset registers and condition assessments will be updated annually. This will provide a basis for developing sustainable ongoing Scheme maintenance programmes.

- 2.4 Each year a Performance Statement will be prepared reporting on the plan performance indicators. 1999/2000 Performance Statements for the Wairarapa River Management Schemes are attached.
- 2.5 In addition to the preparation of Performance Statements and updating of Asset Management Plans, an annual audit of Wairarapa Scheme maintenance standards is carried out by staff from the Flood Protection Group of the Council's Landcare Division. A report summarising the results from the June 2000 audit is attached.

### 3. Discussion

- 3.1 The Schemes have a combined asset valuation of \$46.9m as itemised in Table 1. These Schemes have a range of infrastructural assets such as stopbanks, the Blundell Barrage, culverts and floodgates, weirs, floodways, fences, erosion protection structures, and protective plantings.

**Table 1 - Scheme Asset Valuations & Works Programme Levels**

Scheme	Asset Values	Current Works Programmes	Desirable Works Programmes
LWVDS	43,515,300	656,000	650,000
Waiohine-Mangatarere	1,102,200	225,000	225,000
Upper Ruamahanga	751,680	*173,000	222,000
Waingawa	431,650	174,000	174,000
Waipoua	1,123,980	54,000	54,000
<b>Total</b>	<b>\$46,924,810</b>	<b>\$1,282,000</b>	<b>\$1,325,000</b>

\* **Note:** The Upper Ruamahanga Scheme annual programme level needs to be reviewed.

- 3.2 Table 1 also shows the current and desirable levels of Scheme works programme. With the exception of the Upper Ruamahanga Scheme current maintenance requirements are being met.

### 4. Scheme Status

#### 4.1 Lower Wairarapa Valley Development Scheme

The LWVDS is in very good financial and physical condition. Overall asset condition ratings are favourable, with maintenance requirements being adequately addressed.

The two Asset Management Plan performance criteria not satisfied related to the Lake Onoke stopbank and Manganui Stream weirs. These works were deferred because of more important priorities elsewhere, and the very small risk of further deterioration. The deferred maintenance at these locations, plus the Pukio West stopbank at Butcher's, will be addressed to over the next two to three years.

Over the next 20 years or so there will be an additional renewal requirement for Scheme culverts and floodgates. The long term financial projections indicate that on repayment of the Scheme loans in 2003/04, there will be adequate additional funding to fund the local share cost of these renewals.

#### **4.2 Waiohine-Mangatarere River Management Scheme**

The current level of annual programme is seen as adequate to meet the ongoing Scheme maintenance needs.

The physical condition of the Waiohine-Mangatarere Scheme has improved significantly since the floods of 1998. Durable repairs have been completed at the most vulnerable locations, although some sections of stopbank remain in poor condition. It is planned to address the remaining deficiencies over the next few years.

The Asset Management Plan performance criteria have been satisfied with the exception of the deferred maintenance of \$51,500 marginally exceeding the required target. The Scheme has a substantial financial deficit of \$197,700 to be repaid over the next three years, provided of course there is no further flood damage.

#### **4.3 Waingawa River Management Scheme**

The Waingawa Scheme is in good overall financial and physical condition, and the Asset Management Plan performance criteria have been satisfied. The current annual programme of \$174,000 is adequate to meet the Scheme's ongoing maintenance needs. The Scheme assets are in good condition, the deferred maintenance is minor, and the flood damage reserves stand at \$7,200.

#### **4.4 Upper Ruamahanga River Management Scheme**

The Upper Ruamahanga Scheme is in a less than satisfactory condition. Although the Asset Management Plan performance criteria have been satisfied, the \$65,200 of deferred maintenance is unlikely to be addressed by the current level of maintenance programme.

The rates have been increased by 4.7% to enable the funding of a basic maintenance programme of \$133,000. The remainder of the programme up to a limit of \$173,000 will require the partial or total funding of the local share from direct beneficiaries. The current Scheme reserves stand at \$26,360.

A Scheme review and consultation programme will be completed over the next twelve months, to determine desirable levels of ongoing maintenance and address rating classification concerns.

#### **4.5 Waipoua River Management Scheme**

The Waipoua scheme is in a satisfactory physical condition, although some minor stopbank maintenance and willow lopping is needed.

The rates have been increased by 4.7% to help clear the Scheme deficit of \$8,000 and carry out the deferred maintenance over the next three years. The Asset Management Plan performance criteria have been largely achieved.

A Scheme review and consultation programme will be completed over the next twelve months, to determine desirable levels of ongoing maintenance and address rating classification concerns.

## **5. Audit of Maintenance Standards**

An audit of Wairarapa Scheme maintenance standards was carried out by river engineering staff from the Council's Landcare Division in June 2000 (see attachment). A total of ten sites were inspected within the northern Wairarapa area.

Within the Upper Ruamahanga Scheme, the Masterton Cemetery and Landfill sites, the Pollock/Dew and Forbes frontages, Masterton Oxidation Ponds, and Smaile/Maori Land sites were all inspected. Overall the auditors felt that assets in the Upper Ruamahanga Scheme were being adequately maintained, and flood damage had been adequately repaired. It was felt that beach ripping should be encouraged, that more willows should be planted, and that the use of rooted hybrid willows should be considered.

Within the Waipoua Scheme the Footbridge area in urban Masterton was inspected. The urban section was considered well maintained, although minor concern was expressed about possible settlement of the rock grade control ramp, and vegetation encroachment onto stopbanks.

Within the Waingawa Scheme sites inspected were the Masterton Water Supply frontage, the Masterton stopbank, and the Hyde to SH2 bridge reach. The stopbanks were well maintained, but the auditors felt urgent attention should be given to narrowing the channel, thickening the buffer zones, and ripping beaches. The ongoing management of the river was expected to remain a challenging task.

## **6. Summary**

- 6.1 The 1999/2000 Performance Statements for these Plans are attached.
- 6.2 There were no significant floods during the last financial year, which assisted with the consolidation of repair works undertaken after the 1998 floods.
- 6.3 The Schemes are generally in good physical condition. Any deferred maintenance will be addressed over the next few years. The Upper Ruamahanga Scheme is the notable exception, which requires a significant increase in works programme to address both ongoing and deferred maintenance needs.
- 6.4 Adequate regional funding has been approved in the Council's Business Plan to support satisfactory Scheme maintenance programmes. In the case of the Upper Ruamahanga Scheme there is a shortfall in local funds. The floodplain community will be consulted and agreement sought before any increase in Scheme rates.
- 6.5 With the exception of the Waiohine Scheme, which has a very large deficit of \$197,700, the Scheme reserves are either in surplus, or in minor deficit as in the case of the Waipoua Scheme. Desirable flood damage reserve targets will have to be set for each Scheme as part of the asset management planning process.

- 6.6 The Flood Protection Group audit gave qualified endorsement of Wairarapa river management Scheme maintenance standards.

## 7. Communication Requirements

The Asset Management Plan Performance Statements and copies of the Flood Protection Group's audit report will be presented to the Scheme advisory committees for their information.

## 8. Recommendation

*That the Committee:*

- (1) *Endorses the Wairarapa river management scheme asset management planning process to date.*
- (2) *Receives the Asset Management Plan Performance Statements prepared for the Lower Wairarapa Valley Development Scheme; and the Waiohine-Mangatarere, Upper Ruamahanga, Waingawa, and Waipoua River Management Schemes.*
- (3) *Notes the need to consult with the Upper Ruamahanga floodplain community to address the gap between existing and desirable works programme levels.*
- (4) *Receives the June 2000 Audit of River Management Asset Maintenance Standards for the Wairarapa.*

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