

COMPREHENSIVE DISCHARGE REGISTER**CWR NO.9****TITLE:** Oruarangi Catchment.**WATER RIGHT/RESOURCE CONSENT No.927989****COMPREHENSIVE DISCHARGE CONSENT No.14/10/Br/7989****EXPIRY DATE:** 31 Dec. 2027**CATCHMENT SIZE:** 615 ha.**POINT OF DISCHARGE:** Manukau Harbour, NZMS R11 658674**PEAK DISCHARGE:**2nd Reviewed District Scheme - 13 m³/s (1% AEP).Ultimate Development Scenario - 35 m³/s (1% AEP).**PRIMARY DESIGN STANDARD:** 20% AEP.**SECONDARY DESIGN STANDARD:** 1% AEP.**FLOOR LEVEL RESTRICTION:**1m above 1% AEP, or refer to the Proposed District Plan (Section 9.9.1.2 (c)), **whichever is the more rigorous.****DEVELOPMENT CONSTRAINT:**

That at no time the 1% AEP flood level exceeds RL 2.75m at the urupa (see attached drawings 02-04 for its location).

OTHER CONDITIONS:

- Best Management Practices required for water quality purposes.
- Individual appraisal needed for each site for provision of stormwater quality treatment.
- A report shall be prepared annually which includes, amongst other information:
 - development which has been permitted
 - development which has proceeded

*Refer to Financial Contributions Register for updated figures.

COMPREHENSIVE DISCHARGE CONSENT LEVY: \$394 per ha.*

S.W. QUALITY LEVY: N/A*

PROPOSED WORK: refer to Resource Consent for greater detail.

New Shallow Channel to the Harbour (with pumping of 2.5 m³/s):

Scenario 2 (2nd Reviewed District Scheme): 8m wide channel catering for 11 m³/s

Scenario 3 (Ultimate Development): 22.5m wide channel catering for 30 m³/s

COST:* Scenario 2 \$2.0 million (GST exclusive), as at May 1991

Scenario 3 \$4.5 million (GST exclusive), as at May 1991.

Inclusive of increasing pump rate to 2.5 m³/s at a cost of \$650,000.

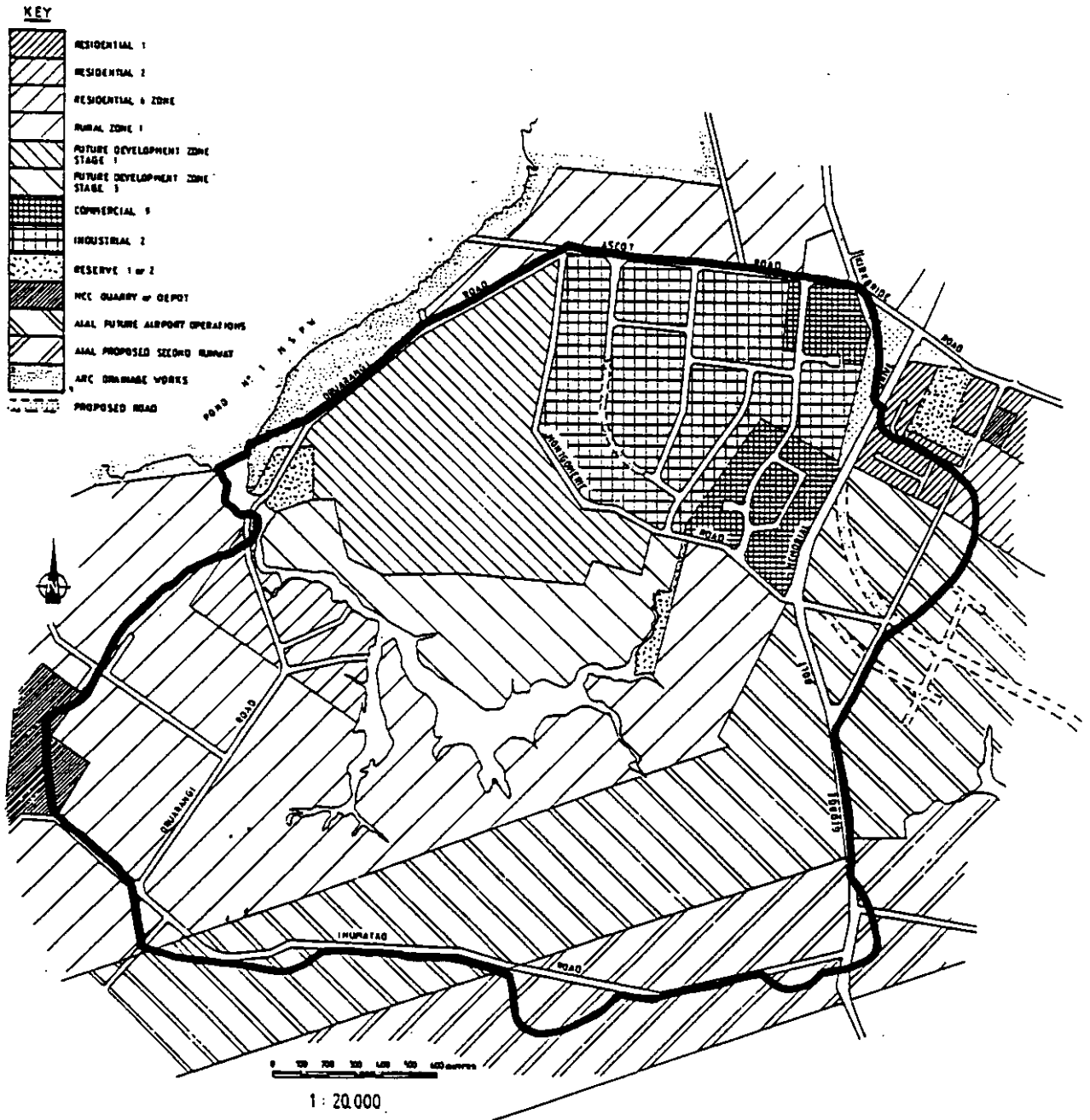
NOTE: The Wastewater Treatment Plant at Mangere is undergoing redesign. It is likely that oxidation pond 1 will be removed entirely by 2000, with the all the oxidation pond system removed by 2003. This would remove the necessity of creating a shallow channel for discharge into the Harbour, but would highlight the need to look towards a comprehensive scheme for dealing with the water quality issue.

COMMENTS:

- 75% max. impervious surface cover (Ultimate Development scenario).
- Discharge based on assumption creek remains blocked off to sea by sewage ponds.

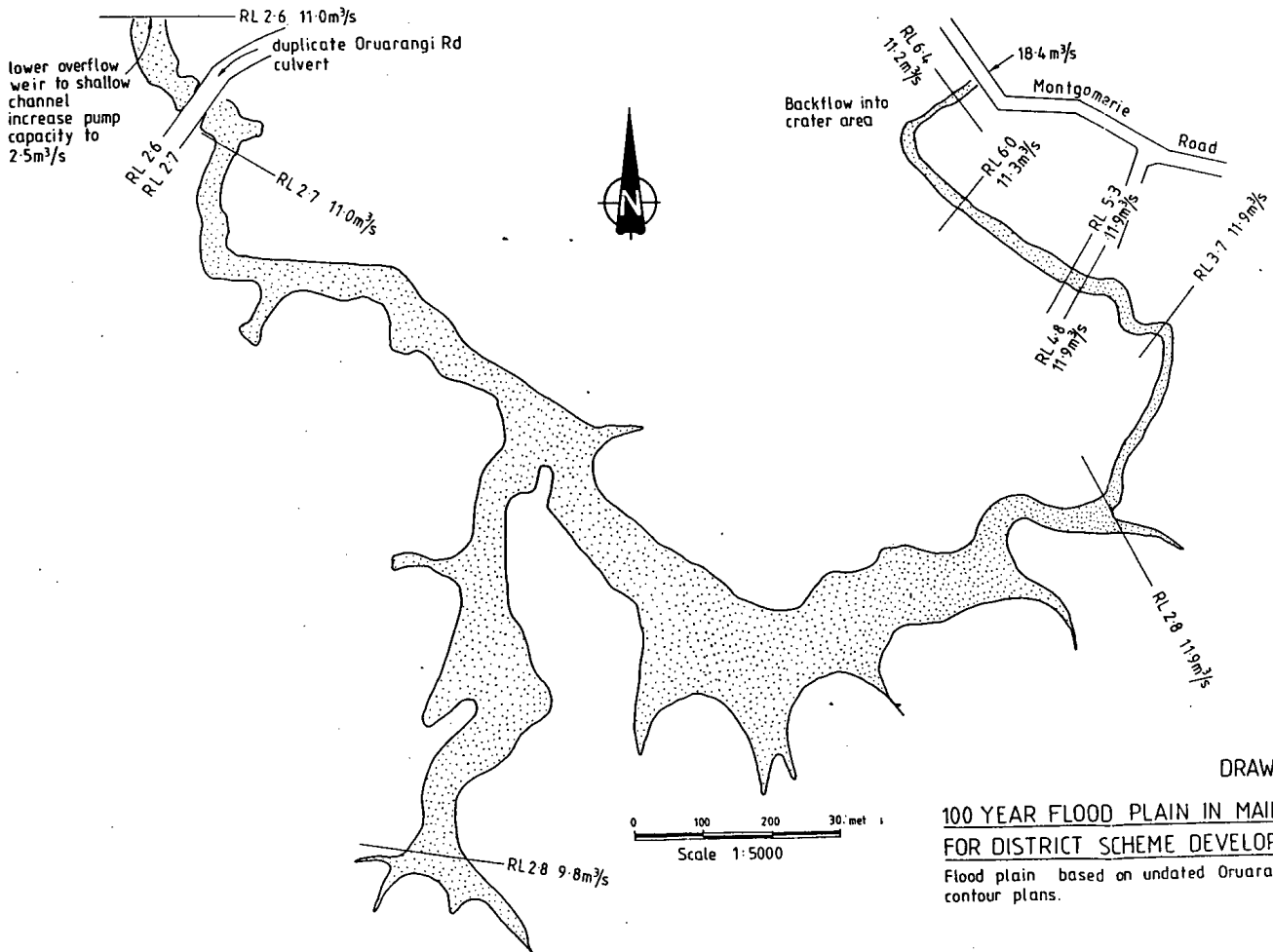
Diagrams Included: Catchment Location and Zoning
Flood Levels

*Refer to Financial Contributions Register for updated figures.



DISTRICT SCHEME LANDUSE ZONINGS

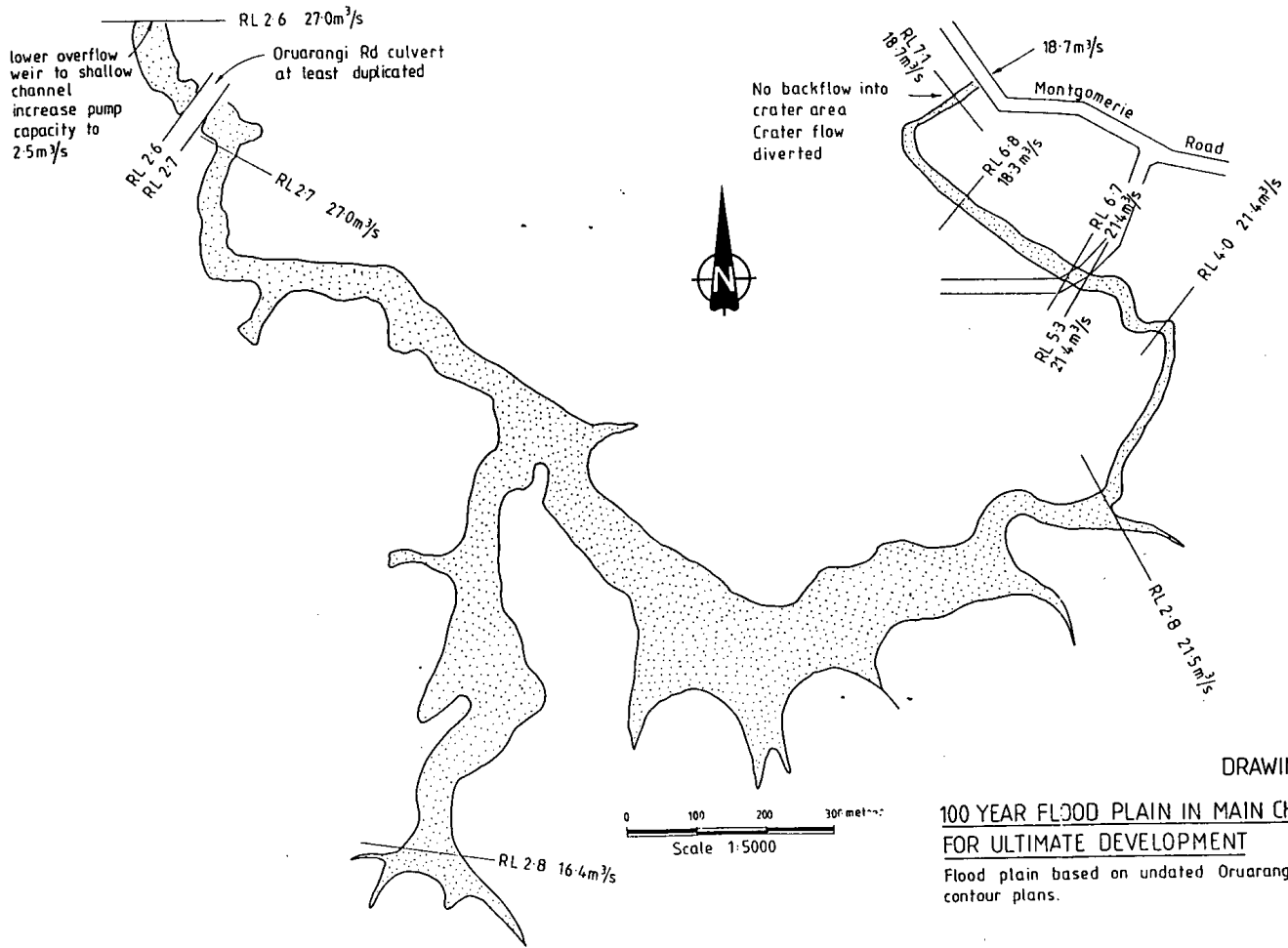
ORUARANGI CATCHMENT



DRAWING 02

**100 YEAR FLOOD PLAIN IN MAIN CHANNEL
FOR DISTRICT SCHEME DEVELOPMENT**

Flood plain based on undated Oruarangi contour plans.



DRAWING 03

100 YEAR FLOOD PLAIN IN MAIN CHANNEL FOR ULTIMATE DEVELOPMENT

Flood plain based on undated Oruarangi contour plans.

