



Tonkin & Taylor

ICS - Area 1 Integrated Catchment Study, Auckland

Client

Auckland City Council / Metro Water Limited

Projects

Development of MOUSE combined sewer / wastewater / stormwater network models for several Auckland City Area catchments. Calibration of MOUSE models to flow gauge data and preparation of Model Development / Calibration reports.

Validation of several MOUSE models against survey questionnaire data and historical records. Determination of 10, 50 and 100 year ARI flood hazard areas for both the existing and future development scenarios, with the identification of unsafe flows.

Identification of a range of likely options and associated costs to address combined and wastewater overflow containment, flood mitigation and stormwater quality improvements tailored towards reaching a desired drainage discharge Level of Service (LOS). Determination of potential effects on the drainage networks for both the existing and future development scenarios.

Services provided

- Project scoping
- Co-ordination of manhole inspection / survey subcontractors

- Co-ordination of flow monitoring subcontractors
- Network model build using MOUSE DHI software
- Calibration of MOUSE models
- Assessment of flood hazards
- Medium level options analysis.



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