



Whangarei District Council

Ruakaka Wastewater Long-Term Consents Project: Assessment of Effects on the Environment and Resource Consent Applications

Application Edition - May 2011





Ruakaka Wastewater Long-Term Consent Project: Assessment of Effects on the Environment and Resource Consent Applications Application Version

AUTHORS		
Jim Bradley	MWH New Zealand Ltd	Technical and Overall Approach
Sonja Bury	MWH New Zealand Ltd	Planning Assessment
David Cameron	MWH New Zealand Ltd	Environmental Science Water
Sue Bennett	MWH New Zealand Ltd	Public Health Risk Assessment, Rama Road Environmental Science
Amos Kamo	Boffa Miskell Ltd	Tangata Whenua
David Voss	Voss Infrastructure Consulting Ltd	Land Application / Hydrogeology
Paula Hunter	MWH New Zealand Ltd	Applications Forms
Fraser Campbell	Campbell Consulting Limited	Wastewater Assessment

REVIEWERS		
Paula Hunter	MWH New Zealand Ltd	Planning Reviewer
Sue Bennett	MWH New Zealand Ltd	Effects of Ocean Discharge
Garrett Hall	MWH New Zealand Ltd	Alternatives Assessment and Proposed Scheme
Peter Loughran	MWH New Zealand Ltd	Public Health Risk Assessment
David Cameron	MWH New Zealand Ltd	Rama Road Block Effects
Anthony Olsen	Boffa Miskell Ltd	Tangata Whenua
Sonja Bury	MWH New Zealand Ltd	Part Review
Jim Bradley	MWH New Zealand Ltd	Overall Reviewer
Fraser Campbell	Campbell Consulting Limited	Overall Reviewer
Curt Martin	Whangarei District Council	Overall Reviewer

This AEE Report is supported by 41 Support Documents. Information included in this AEE has been sourced by many of those documents. Accordingly, the authors of the Support Documents have also contributed to this AEE. A full list of the Support Documents is included in the Contents Pages of this document.

Report Signed and Released by:

.....
 Simon Weston, Group Manager Infrastructure & Services
 Whangarei District Council

Acknowledgement of photographs on front and back covers – North Holdings and Hopper Developments.



WHANGAREI DISTRICT COUNCIL

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APPENDICES

Appendix A: Whangarei District Council, Works and Services Committee Report dated 30 July 2008
and Committee Meeting Resolution dated 13 August 2008

Appendix B: Whangarei District Council, Infrastructure and Services, Committee Report, December
2010 and Resolution of Draft Proposed Scheme

Appendix C: Project Objectives

Appendix D: Existing Resource Consents

Appendix E: Ruakaka Wastewater Consent 0415501 Monitoring Reporting

Appendix F: CH2M Beca High Level Peer Review Stage 2 Study June 2008

Appendix G: Whangarei District Council, Infrastructure and Services Committee Report dated 21 April
2011 titled Proposed Scheme and Final AEE For Lodgement, and Committee Meeting Resolution
dated 11 May 2011



COMPANION DOCUMENTS IN SEPARATE COMPANION VOLUME

- 1 Ruakaka Wastewater Long-Term Resource Consents Project Cultural Impact and Assessment Report, prepared by Patuharakeke Te Iwi Trust Board (Inc), commissioned by Whangarei District Council 3 May 2009.
- 2 Kepa M and Pirihi, L – ‘Convincing a Marae-Based Organisation in a Rural Area to Support a Government Agency’s Application for Resource Consents to Itself’ – presented at the ‘Critical and Sensitive Research Issues Symposium’, Christchurch, 15-16 November 2010.

SUPPORT DOCUMENTS – CHRONOLOGICAL ORDER

- 1 The Final ‘Ruakaka/One Tree Point Wastewater Options Study, Stage 1 Future Wastewater Quantity and Quality Projections’ by GHD/URS 20 April 2007
- 2 The Final ‘Issues and Options Investigations Ruakaka/One Tree Point Wastewater Options Stage 1 Study Report’ and accompanying Planning and Consultation Reports by GHD / URS 15 May 2007
- 3 Public Health, Microbial/Viral Risk Assessment, Stage 1 by GHD / URS 15 May 2007
- 4 Stage 2 Study Task 2A - Future Wastewater Quantity and Quality Projections, by MWH November 2007
- 5 Stage 2 Study Task 2B Part 1 Indicative Cost Estimates, Option Schematics and Key Issues, by MWH November 2007
- 6 Stage 2 Study Task 2B Part 3 Alternative Wastewater Treatment Process, by MWH November 2007
- 7 Stage 2 Study Task 2B Part 4 Investigate Feasibility of Split Industrial and Domestic Wastewater Schemes, by MWH November 2007
- 8 Ruakaka Wastewater Treatment Plant Discharge Options – Initial Assessment of Dilutions, by NIWA October 2007
- 9 Whangarei District Council Ruakaka Wastewater Project ‘Discussion Paper on Draft Project Objectives’, By Whangarei District Council November 2007
- 10 Stage 2 Study Task 2B Part 2 Reuse of Treated Effluent, by MWH December 2007
- 11 Whangarei District Council, Ruakaka/One Tree Point, Options for Wastewater Treatment, by MWH 7 November 2007
- 12 Whangarei District Council, Ruakaka/One Tree Point, Options for Wastewater Treatment – Supplementary Information, by MWH 28 November 2007
- 13 Ruakaka Coastal Environment Recreational Survey, by MWH/WDC December 2007/ January 2008
- 14 Whangarei District Council, Ruakaka/One Tree Point, Options for Wastewater Treatment, – Supplementary Information, Part 2 by MWH 20 December 2007
- 15 Stage 2 Study Task 2C - Hydro-Geological Appraisal of Land Disposal Options and Consultation Information/Overheads, by Voss Infrastructure Consulting December 2007
- 16 Stage 2 Study Task 2B Part 5 Sludge and Biosolids Management, by MWH February 2008
- 17 Stage 2 Study Task 2C – Preliminary Assessment of Terrestrial Ecology Associated with the Options, by MWH February 2008
- 18 Stage 2 Study Task 2C – Preliminary Odour and Air Emissions Report, by MWH February 2008
- 19 Stage 2 Study Task 2C – Short-listed Options: Initial Technical Studies Report, by MWH February 2008
- 20 Stage 2 Study Task 2E – Qualitative Public Health Risk Assessment, by MWH February 2008
- 21 Stage 2 Study Task 2F – Planning Risk and Consentability Assessment, by MWH February 2008



- 22 Stage 2 Study Task 2G – Detailed Options Evaluation Report, by MWH February 2008
- 23 Whangarei District Council, Ruakaka/One Tree Point, Options for Wastewater Treatment, Summary BTF and SBR Comparison Table, by MWH April 2008
- 24 Consideration of Alternative Sites for the Ruakaka Wastewater Treatment Plant, by MWH May 2008
- 25 Stage 2 Study: Development of the ‘Proposed Scheme’ and a ‘Ruakaka Wastewater Strategy’, by MWH June 2008
- 26 Whangarei District Council, Ruakaka/One Tree Point, Options for Wastewater Treatment– Supplementary Information, Part 3, by MWH June 2008
- 27 Assessment of Effects of Endocrine Disrupting Compounds and Microbiological Pathogens on the Fish and Marine Mammals of Bream Bay, by Cawthron Institute January 2009
- 28 Review of potential effects of endocrine disrupting compounds on marine species at Bream Bay Aquaculture Park by NIWA July 2009
- 29 Ecotoxicity information on species cultured at NIWA Bream Bay Aquaculture Park July 2009
- 30 Bream Bay Water Quality 2008-2009 prepared for Whangarei District Council, by MWH December 2009
- 31 Bream Bay Dilution and Dispersion Study, Phase One: Comparative Assessment, Final Report, by DHI January 2010
- 32 Bream Bay Dilution and Dispersion Study, Phase One: Comparative Assessment – Addendum, by DHI February 2010
- 33 Bream Bay Dilution and Dispersion Study, Phase Two: Comparative Assessment, Final Report, by DHI May 2010
- 34 Coastal Vegetation Assessment for the Whangarei District Council, Irrigation of Wastewater Suitability Study, Rama Road Block, Ruakaka, by Alastair Jamieson - Wild Earth Media & Harley Spence - Coastline Consultants May 2010
- 35 Bream Bay Environmental Assessment, Bream Bay Outfall and Benthic Survey and Assessment by Golder Associates July 2010
- 36 Ruakaka long-term Wastewater Consents Project, Quantitative Public Health Risk Assessment, by MWH August 2010
- 37 Ruakaka Ocean Outfall Report, Constructability Assessment and Estimated Costs, by OCEL Consultants and Preliminary Assessment January 2008 – August 2010 – Rev. 2
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- 39 Bream Bay Dilution and Dispersion Study, Nutrient Modelling, Final Report, by DHI November 2010
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