



Application for resource consent or fast-track resource consent

(Or Associated Consent Pursuant to the Resource Management Act 1991 (RMA)) (If applying for a Resource Consent pursuant to Section 87AAC or 88 of the RMA, this form can be used to satisfy the requirements of Schedule 4). Prior to, and during, completion of this application form, please refer to Resource Consent Guidance Notes and Schedule of Fees and Charges — both available on the Council's web page.

| 1. Pre-Lodgement Meetin | g | |
|---|--|--|
| Have you met with a council Resource Consent representative to discuss this application prior to lodgement? Yes No | | |
| | | |
| 2. Type of Consent being a | applied for | |
| (more than one circle can be | e ticked): | |
| Land Use | Discharge | |
| Fast Track Land Use* | Change of Consent Notice (s.221(3)) | |
| Subdivision | Extension of time (s.125) | |
| | I Environmental Standard ging Contaminants in Soil) | |
| Other (please specify) | | |
| * The fast track is for simple land use consents and is restricted to consents with a controlled activity status. | | |
| 3. Would you like to opt o | ut of the Fast Track Process? | |
| Yes No | | |
| 4. Consultation | | |
| Have you consulted with lwi | /Hapū? Yes No | |
| If yes, which groups have you consulted with? | | |
| Who else have you consulted with? | | |
| For any questions or information Council tehonosupport@fndc.s | on regarding iwi/hapū consultation, please contact Te Hono at Far North District | |

| Name/s: | Northland Regional Council - Rivers & Natural Hazards Team c/o Meg Tyler | | |
|--|--|--|--|
| Email: | | | |
| Phone number: | | | |
| Postal address: (or alternative method of service under section 352 of the act) | | | |
| . Address for Corresp | pondence | | |
| lame and address for s | service and correspondence (if using an Agent write their details here) | | |
| Name/s: | Steven Sanson - Bay of Islands Planning | | |
| Email: | | | |
| Phone number: | | | |
| Postal address: (or alternative method of service under section 352 of the act) | | | |
| All correspondence will | be sent by email in the first instance. Please advise us if you would prefer an nmunication. | | |
| | | | |
| lternative means of con | Owner/s and Occupier/s | | |
| Ilternative means of con 7. Details of Property Name and Address of th | Owner/s and Occupier/s he Owner/Occupiers of the land to which this application relates ale owners or occupiers please list on a separate sheet if required) | | |
| . Details of Property lame and Address of the where there are multip | he Owner/Occupiers of the land to which this application relates | | |
| Iternative means of con I. Details of Property Ilame and Address of the | he Owner/Occupiers of the land to which this application relates ble owners or occupiers please list on a separate sheet if required) | | |

| 8. Application Site Details | | | |
|---|--|-------------------------|--|
| Location and/or prope | erty street address of the proposed activity: | | |
| Name/s: | | | |
| Site Address/ Location: | | | |
| | Postcode | | |
| Legal Description: | Val Number | : | |
| Certificate of title: | | | |
| Please remember to attach a copy of your Certificate of Title to the application, along with relevant consent notices and/or easements and encumbrances (search copy must be less than 6 months old) | | | |
| Site visit requirement | s: | | |
| Is there a locked gate | or security system restricting access by Counc | il staff? Yes No | |
| Is there a dog on the | property? Yes No | | |
| Please provide details of any other entry restrictions that Council staff should be aware of, e.g. health and safety, caretaker's details. This is important to avoid a wasted trip and having to rearrange a second visit. | | | |
| | | | |
| 9. Description of the | Proposal: | | |
| | scription of the proposal here. Please refer to or further details of information requirement | · | |
| | | | |
| If this is an application for a Change or Cancellation of Consent Notice conditions (s.221(3)), please quote relevant existing Resource Consents and Consent Notice identifiers and provide details of the change(s), with reasons for requesting them. | | | |
| 10. Would you like to | request Public Notification? | | |
| Yes No | | | |
| Tes VIVO | | | |

| 11. Other Consent required/being applied for under different legislation | | | |
|---|--|--|--|
| (more than one circle can be ticked): | | | |
| Building Consent Enter BC ref # here (if known) | | | |
| Regional Council Consent (ref # if known) Ref # here (if known) | | | |
| National Environmental Standard consent Consent here (if known) | | | |
| Other (please specify) Specify 'other' here | | | |
| | | | |
| 12. National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health: | | | |
| The site and proposal may be subject to the above NES. In order to determine whether regard needs to be had to the NES please answer the following: | | | |
| Is the piece of land currently being used or has it historically ever been used for an activity or industry on the Hazardous Industries and Activities List (HAIL) Yes No Don't know | | | |
| Is the proposed activity an activity covered by the NES? Please tick if any of the following apply to your proposal, as the NESCS may apply as a result. Yes No Don't know | | | |
| Subdividing land Changing the use of a piece of land Disturbing, removing or sampling soil Removing or replacing a fuel storage system | | | |
| | | | |
| 13. Assessment of Environmental Effects: | | | |
| Every application for resource consent must be accompanied by an Assessment of Environmental Effects (AEE). This is a requirement of Schedule 4 of the Resource Management Act 1991 and an application can be rejected if an adequate AEE is not provided. The information in an AEE must be specified in sufficient detail to satisfy the purpose for which it is required. Your AEE may include additional information such as Written Approvals from adjoining property owners, or affected parties. Your AEE is attached to this application Yes | | | |
| | | | |
| 13. Draft Conditions: | | | |
| Do you wish to see the draft conditions prior to the release of the resource consent decision? Yes No If yes, do you agree to extend the processing timeframe pursuant to Section 37 of the Resource Management Act by 5 working days? Yes No | | | |

14. Billing Details:

This identifies the person or entity that will be responsible for paying any invoices or receiving any refunds associated with processing this resource consent. Please also refer to Council's Fees and Charges Schedule.

| Name/s: (please write in full) | |
|--|----------|
| Email: | |
| Phone number: | Work |
| Postal address: (or alternative method of service under section 352 of the act) | Postcode |

Fees Information

An instalment fee for processing this application is payable at the time of lodgement and must accompany your application in order for it to be lodged. Please note that if the instalment fee is insufficient to cover the actual and reasonable costs of work undertaken to process the application you will be required to pay any additional costs. Invoiced amounts are payable by the 20th of the month following invoice date. You may also be required to make additional payments if your application requires notification.

Declaration concerning Payment of Fees

I/we understand that the Council may charge me/us for all costs actually and reasonably incurred in processing this application. Subject to my/our rights under Sections 357B and 358 of the RMA, to object to any costs, I/we undertake to pay all and future processing costs incurred by the Council. Without limiting the Far North District Council's legal rights if any steps (including the use of debt collection agencies) are necessary to recover unpaid processing costs I/we agree to pay all costs of recovering those processing costs. If this application is made on behalf of a trust (private or family), a society (incorporated or unincorporated) or a company in signing this application I/we are binding the trust, society or company to pay all the above costs and guaranteeing to pay all the above costs in my/our personal capacity.

| Name: (please write in full) | | |
|------------------------------|-----------|------|
| Signature: | | Date |
| (signature of bill payer | MANDATORY | |

15. Important Information:

Note to applicant

You must include all information required by this form. The information must be specified in sufficient detail to satisfy the purpose for which it is required.

You may apply for 2 or more resource consents that are needed for the same activity on the same form. You must pay the charge payable to the consent authority for the resource consent application under the Resource Management Act 1991.

Fast-track application

Under the fast-track resource consent process, notice of the decision must be given within 10 working days after the date the application was first lodged with the authority, unless the applicant opts out of that process at the time of lodgement. A fast-track application may cease to be a fast-track application under section 87AAC(2) of the RMA.

Privacy Information:

Once this application is lodged with the Council it becomes public information. Please advise Council if there is sensitive information in the proposal. The information you have provided on this form is required so that your application for consent pursuant to the Resource Management Act 1991 can be processed under that Act. The information will be stored on a public register and held by the Far North District Council. The details of your application may also be made available to the public on the Council's website, www.fndc.govt.nz. These details are collected to inform the general public and community groups about all consents which have been issued through the Far North District Council.

15. Important information continued...

Declaration

The information I have supplied with this application is true and complete to the best of my knowledge.

Name: (please write in full)

Signature:

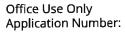
| Steven Sanson | |
|---------------|------------------|
| | Date 17-Dec-2024 |

A signature is not required if the application is made by electronic means

Checklist (please tick if information is provided)

- Payment (cheques payable to Far North District Council)
- A current Certificate of Title (Search Copy not more than 6 months old)
- Details of your consultation with lwi and hapu
- Copies of any listed encumbrances, easements and/or consent notices relevant to the application
- Applicant / Agent / Property Owner / Bill Payer details provided
- Location of property and description of proposal
- Assessment of Environmental Effects
- Written Approvals / correspondence from consulted parties
- Reports from technical experts (if required)
- Copies of other relevant consents associated with this application
- Location and Site plans (land use) AND/OR
- Location and Scheme Plan (subdivision)
- Elevations / Floor plans
- Topographical / contour plans

Please refer to Chapter 4 of the District Plan for details of the information that must be provided with an application. Please also refer to the RC Checklist available on the Council's website. This contains more helpful hints as to what information needs to be shown on plans.





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|---|--|
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| 2. Type of Consent being | g applied for |
| (more than one circle can | be ticked): |
| √ Land Use | O Discharge |
| Fast Track Land Use* | Change of Consent Notice (s.221(3)) |
| Subdivision | Extension of time (s.125) |
| | nal Environmental Standard naging Contaminants in Soil) |
| Other (please specify | () |
| | land use consents and is restricted to consents with a controlled activity statu |
| 4. Consultation | |
| Have you consulted with I | wi/Hapū? Ves No |
| If yes, which groups have you consulted with? | Whangaroa Catchment Working Group |
| Who else have you consulted with? | |

For any questions or information regarding iwi/hapū consultation, please contact Te Hono at Far North District Council tehonosupport@fndc.govt.nz

5. Applicant Details

| Name/s: | Northland Regional Council - Rivers & Natural Hazards Team c/o Meg Tyler |
|--|---|
| Email: | |
| Phone number: | |
| Postal address: (or alternative method of service under section 352 of the act) | |
| | |
| 6. Address for Corresp | ondence |
| Name and address for s | ervice and correspondence (if using an Agent write their details here) |
| Name/s: | Steven Sanson - Bay of Islands Planning |
| Email: | |
| Phone number: | |
| Postal address: (or alternative method of service under section 352 of the act) | |
| * All correspondence will alternative means of com | be sent by email in the first instance. Please advise us if you would prefer an munication. |
| 7. Details of Property (| Owner/s and Occupier/s |
| | e Owner/Occupiers of the land to which this application relates e owners or occupiers please list on a separate sheet if required) |
| Name/s: | Refer to Appendix 1 - Various |
| Property Address/ Location: | Waikare Avenue, Kaeo |
| | Postcode |
| | |

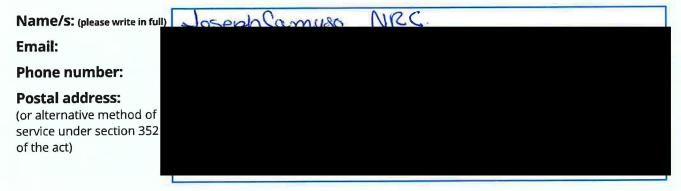
8. Application Site Details

| Location and/or prope | erty street address of the prop | osea activity: | |
|---|---|---|--|
| Name/s: | Various - Refer Appendix 1 | | |
| Site Address/ Location: | Waikare Avenue, Kaeo | | |
| | Postcode | | |
| Legal Description: | Refer Appendix 1 Val Number: | | |
| Certificate of title: | Refer Appendix 1 | | |
| Please remember to attach a copy of your Certificate of Title to the application, along with relevant consent notices and/or easements and encumbrances (search copy must be less than 6 months old) | | | |
| Site visit requirement | ts: | | |
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| Is there a dog on the | property? Yes V No | | |
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| 9. Description of the | e Proposal: | | |
| Please enter a brief de | | e. Please refer to Chapter 4 of the District Plan, ion requirements. | |
| Kaeo Stage II flood prote | ection works. | | |
| quote relevant existin | n for a Change or Cancellation ig Resource Consents and Con ns for requesting them. | of Consent Notice conditions (s.221(3)), please isent Notice identifiers and provide details of the | |
| 10. Would you like to | o request Public Notificatio | on? | |
| Yes No | | | |

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| |
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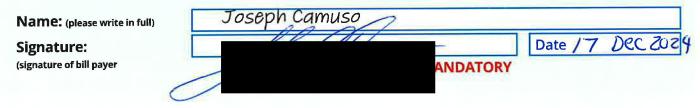


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15. Important information continued...

Declaration

The information I have supplied with this application is true and complete to the best of my knowledge.

| Name: (please write in full) | Steven Sanson | | |
|--|--|-----------------------------|--|
| Signature: | | Date 17-Dec-2024 | |
| | pt required if the application is made by electronic means | 48 | |
| | | | |
| Checklist (please tick if i | information is provided) | | |
| Payment (cheques pay | able to Far North District Council) | | |
| A current Certificate of | Title (Search Copy not more than 6 months old) |) | |
| Operails of your consult | ation with lwi and hapū | | |
| Copies of any listed end | cumbrances, easements and/or consent notices r | relevant to the application | |
| Applicant / Agent / Pro | perty Owner / Bill Payer details provided | | |
| Location of property as | nd description of proposal | | |
| Assessment of Environmental Effects | | | |
| Written Approvals / co | rrespondence from consulted parties | | |
| Reports from technical experts (if required) | | | |
| Copies of other relevant consents associated with this application | | | |
| ✓ Location and Site plans (land use) AND/OR | | | |
| O Location and Scheme F | Plan (subdivision) | | |
| Elevations / Floor plans | 5 | | |
| ▼ Topographical / contout | ır plans | | |

Please refer to Chapter 4 of the District Plan for details of the information that must be provided with an application. Please also refer to the RC Checklist available on the Council's website. This contains more helpful hints as to what information needs to be shown on plans.

Enem 6 Application for recourse conceptor fact track recourse concept



Bay of Island Planning Limited | Website: www.bayplan.co.nz | Email: office@bayplan.co.nz

BAY OF ISLANDS PLANNING (2022) LIMITED

Kerikeri House Suite 3, 88 Kerikeri Road, Kerikeri

Email - office@bayplan.co.nz Website - www.bayplan.co.nz

06 January 2025

Application for Resource Consent - Kaeo Stage II Flood Protection Works

Please find below a resource consent application to undertake earthworks associated with the Kaeo Stage II Flood Protection Works.

The earthworks are associated with infill of a section of the Kaeo River, the construction new river channel and a stop bank.

Overall, the application is a **Discretionary Activity.**

Should you require any further information please do not hesitate to contact me.

Yours sincerely,

Steven Sanson

Consultant Planner

SITE DETAILS



| Applicant | Northland Regional Council – Rivers and Natural Hazards Team |
|------------------------|---|
| Address for Service | Bay of Islands Planning Limited PO Box 318 |
| | PAIHIA 0247 |
| | C/O - Steven Sanson |
| | steve@bayplan.co.nz |
| | 021-160-6035 |
| Legal Description | Various – Refer Appendix 1 |
| Record Of Title [RoT] | Various – Refer Appendix 1 |
| Physical Address | Waikare Avenue, Kaeo |
| Site Area | Various – Refer Appendix 1 |
| Owner of the Site | Various – Refer Appendix 1 |
| District Plan Zone | Rural Production & Commercial [ODP] |
| | Rural Production & Mixed Use [PDP] |
| District Plan Features | Nil |
| NRC Features | Coastal & River Flood Hazards |
| Soils | Class 3 |
| Flora / Fauna | Kiwi Present |
| HAIL | Nil |
| Wetlands | Nil |

Schedule 1

Bay of Island Planning Limited | Website: www.bayplan.co.nz | Email: office@bayplan.co.nz

1.0 INTRODUCTION & PROPOSAL

1.1 Report Requirements

- 1. This report has been prepared for the Northland Regional Council Rivers and Natural Hazards
 Team [applicant] in support of a land use consent in Kaeo, Northland.
- 2. The application has been prepared in accordance with the provisions of Section 88 and the Fourth Schedule of the Resource Management Act 1991. This report serves as the Assessment of Environmental Effects required under both provisions.
- 3. The report also includes an analysis of the relevant provisions of the Far North District Plan [Operative and Proposed], relevant National Policy Statements and Environmental Standards, Regional Planning Documents as well as Part 2 of the Resource Management Act 1991.

1.2 Proposal & Background

- 4. A range of details regarding the site are outlined in Schedule 1 of this Report. These details are supplemented by the Record of Title's and relevant instruments located in **Appendix 1.**
- 5. Stage I of the works already completed are provided in <u>Figure 1</u> below. These works have played a role in reducing the effects of flooding to the Kaeo Township.

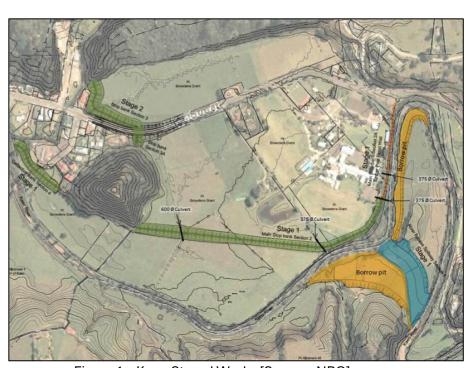


Figure 1 – Kaeo Stage I Works [Source: NRC]

6. The applicant proposes to continue the flood mitigation works in Kaeo through this Stage II proposal.

- 7. <u>Land Use Consent:</u> The works associated with flood protection works at Kaeo require a land use consent from the Far North District Council.
- 8. The proposal is considered to breach the following rules:
 - 12.3.6.1.1 Excavation and/or Filling, Excluding Mining and Quarrying, in the Rural Production Zone Discretionary Activity [for volume and height of stopbank].
- 9. <u>Proposal Rationale:</u> The proposal is for Stage II of the Kaeo Flood Protection Scheme. This project augments the initial works undertaken in 2013/2014. Consents are required due to the scale of earthworks required from FNDC. The works are proposed to be undertaken across five Records of Title.
- 10. Stage II seeks to reduce flooding of Kaeo by realigning the Kaeo River channel and using the cut material to create a deflection bank [stopbank]. This would move the confluence ~520m downstream close to the Omaunu Road bridge.
- 11. The works seek to reduce the backflow effect currently experienced by ~600mm and will reduce flooding in and around the Kaeo Township.
- 12. FNDC consents are required for earthworks only. The overall site plan and drawings for the proposal has been prepared by Trine Kel and is provided as **Appendix 2**.
- 13. Details of the proposal are provided in <u>Table 1</u> below.

Table 1 – Proposal Details

| Item | Length | Cut / Fill |
|----------------------|--------|----------------------------|
| Proposed Stop bank | 696m | Fill – 20,763m³ |
| Proposed Channel | 740m | Cut – 30,248m³ |
| Proposed Infill Area | 182m | Fill – 4,203m³ |
| Total | 1,618m | Cut – 30,248m ³ |
| | | Fill – 24,966m³ |
| | | Balance: Cut – 5,282m³ |

14. The cut / fill details per site are as follows.

Table 2 – Proposal Details Per Site

| Site | Cut | Fill |
|-----------|-------------------------|-------------|
| NA2D/6 | 10,877.78m³ | - |
| NA48C/581 | 12,897.12m³ | 15,498.74m³ |
| NA35B/601 | 6,835.057m ³ | 4,794.944m³ |



| NA502/92 | 371.7669m³ | - |
|-----------|------------|------------|
| NA4D/903 | - | 1,978.8m³ |
| NA1089/79 | - | 822.3492m³ |

- 15. The proposal seeks a total of 55,214m³ of earthworks. As shown on the plans in **Appendix 2**, the material won from the site will be used for the stop bank / infill works, and the balance held on the site for future use.
- 16. Consents will be sought concurrently from the Northland Regional Council for the project. A copy of this application is provided as **Appendix 3**. We envisage the bulk of the consenting requirements to be assessed from a regional perspective and some alignment between the two consenting agencies are sought.
- 17. The works are considered to align with public flood control / flood protection as provided for within s133 of the Soil Conservation and Rivers Control Act 1941. The works are also specifically provided for as Regionally Significant Infrastructure under Appendix 3 of the Regional Policy Statement for Northland [Refer Clause 3[a]].
- 18. Therefore, the proposal is considered to meet the definition of 'specified infrastructure' under higher order documents.
- 19. Modelling has been undertaken to support the proposed works, and this is provided in **Appendix 4**.
- 20. <u>Figure 2</u> below highlights the modelled impact of the proposed works on the Kaeo Township. As can be seen, certain areas are less affected by flooding as a result of the proposed works.

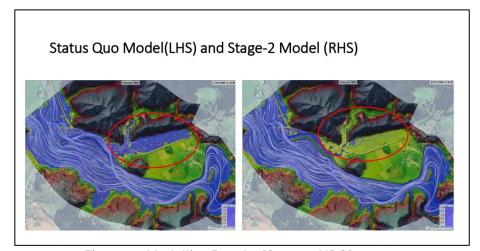


Figure 2 – Modelling Results [Source: NRC]



- 21. Works are expected to be carried out using large earthmoving equipment. This may include motor scrapers, tractors and trailers and Moxy. However, this will depend on the contractor, their methodology and available equipment. It is possible that the works could occur across two earthworks seasons. Again, this is to be determined.
- 22. Proposed fill sites are internal to the site, therefore there is no particular need for earthmoving equipment to be using the State Highway or neighbouring streets on an ongoing basis. Timing of the works will be circulated to the community, prior to works being undertaken. These matters will all be provided within an Erosion and Sediment Control Plan proposed to be provided as a condition of consent.
- 23. In order to understand the ecological conditions of the site NZ Environmental Management have been engaged to undertake and provide an Ecological Impact Assessment (EcIA). This will be provided once received.

2.0 DESCRIPTION OF THE SITE & SURROUNDS

- 24. The proposal is located across five Record of Titles, provided in **Appendix 1**. These titles collectively make up the 'site', noting that FNDC has rules that work on a site per site basis.
- 25. In terms of integrated management of effects, it is simpler to consider the proposal as a whole and not attempt to split up each site and assess effects in that manner. The application is therefore premised on this approach, noting the allowances per site as a permitted activity.
- 26. From a planning perspective, the following <u>Figures</u> which relate to <u>Schedule 1</u> provide an understanding of the site. For ease of reference, the 'site' is highlighted in yellow in Figures below.

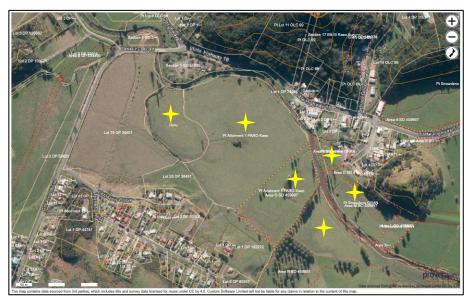


Figure 3 – Site Aerial [Source: Prover]



27. The site sits to the south of the Kaeo Township and runs adjacent and along a short extent of the Kaeo River. The sites are largely in pasture and are vacant where the works are proposed. One of the sites is located off Waikare Avenue where the works tie in with Stage I development.



Figure 4 – Toporaphy [Source: NRC Local Maps]

28. The topography of the site is as shown in <u>Figure 4</u>. The site is low lying and largely flat. The land rises to the east, south and north.



Figure 5 – Zoning [Source: Far North Maps]

29. The site is zoned Rural Production and Commercial and there are no apparent resource features of concern in the Operative District Plan [ODP]. Under the Proposed District Plan [PDP], the site is Rural Production and Mixed Use, also with no resource features present.



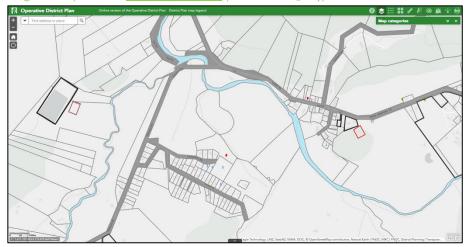


Figure 6 – Resource Features [Source: Far North Maps]

- 30. Soils for the site are Class 3. There are mapped historic sites and HAIL sites in the surrounds, however these are not mapped as being within the development footprint. The entire development area is subject to river and coastal flood hazards.
- 31. Protected Natural Areas are located to the north and south of the site and development area at Ngarahu P04036 and Kaeo Bush P04052. Kaeo is considered as being within a Kiwi Present Area.

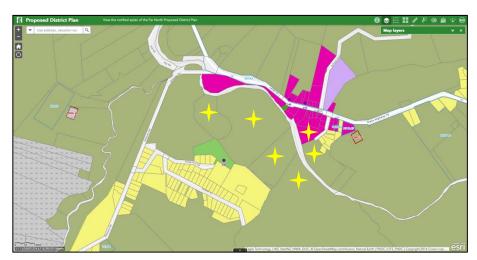


Figure 7– Proposed District Plan [Source: Far North Maps]





Figure 8 – Soils [Source: Far North Maps]

32. The immediate surrounds are characterised by low lying pastoral land surrounding the Kaeo Township. The Kaeo Township is made up of various commercial and residential elements along the State Highway.



Figure 9 – Historic Sites [Source: Far North Maps]

33. From a wider perspective, the environment is largely rural in nature.

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Figure 10 – HAIL Map [Source: NRC Local Maps]

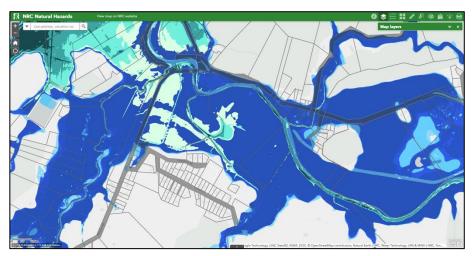


Figure 11 – Natural Hazards Map [Source: NRC Local Maps]



Figure 12 – Reserves & Protected Areas [Source: Far North Maps]



3.0 RECORD OF TITLE, CONSENT NOTICES AND LAND COVENANTS

34. The Record of Title are attached at **Appendix 1**. There are no relevant interests to consider, however it is noted that some of the landholdings are subject to instruments relating to the Stage I works. These have not been provided but can be ordered and provided on request.

4.0 RESOURCE CONSENT REQUIREMENTS

- 35. The relevant zoning, resource features, and other critical information required to determine the consenting requirements for the proposal have been considered above.
- 36. *Tables* below provides an assessment against the relevant ODP and PDP standards and identifies the reasons for resource consent.

Table 3 - Rural Production Zone

| Rule | Assessment |
|--|-------------------------------------|
| Rule 8.6.5.1.1 Residential Intensity | No dwellings proposed. |
| | Complies |
| Rule 8.6.5.1.2 Sunlight | No buildings proposed. |
| | Complies |
| Rule 8.6.5.1.3 Stormwater Management | No impervious surfaces proposed. |
| | Complies |
| Rule 8.6.5.1.4 Setback from Boundaries | No buildings proposed. |
| | Complies |
| Rule 8.6.5.1.5 Transportation | No buildings proposed. |
| | Complies |
| Rule 8.6.5.1.8 Building Height | No buildings proposed. |
| | Complies |
| Rule 8.6.5.1.10 Building Coverage | No buildings proposed. |
| | Complies |
| Rule 8.6.5.1.11 Scale of Activities | No buildings / activities proposed. |



| Complies |
|----------|

Table 4 – District Wide Rules

| 12.1 Landscapes & Natural Features Not relevant as these features do not occur at the site. Complies 12.2 Indigenous Flora & Fauna Isolated trees will be removed through the proposal. Complies 12.3 Soils & Minerals More than 20,000m3 of earthworks are proposed across the site / development area. The stopbank heights are proposed to be ~3m in height. Discretionary Activity 12.4 Natural Hazards Site is not within Hazard Areas mapped by FNDC [Coastal Hazard 1 and2]. No buildings of concern to fire risk. Complies 12.5 Heritage There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies 12.7 Lakes, Rivers and Wetlands No buildings proposed. | Rule | Assessment |
|---|------------------------------------|--|
| the site. Complies 12.2 Indigenous Flora & Fauna Isolated trees will be removed through the proposal. Complies 12.3 Soils & Minerals More than 20,000m3 of earthworks are proposed across the site / development area. The stopbank heights are proposed to be ~3m in height. Discretionary Activity 12.4 Natural Hazards Site is not within Hazard Areas mapped by FNDC [Coastal Hazard 1 and2]. No buildings of concern to fire risk. Complies 12.5 Heritage There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | nuto | Assessment |
| Isolated trees will be removed through the proposal. Complies 12.3 Soils & Minerals More than 20,000m3 of earthworks are proposed across the site / development area. The stopbank heights are proposed to be ~3m in height. Discretionary Activity 12.4 Natural Hazards Site is not within Hazard Areas mapped by FNDC [Coastal Hazard 1 and2]. No buildings of concern to fire risk. Complies 12.5 Heritage There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | 12.1 Landscapes & Natural Features | |
| The stopbank heights are proposed to be ~3m in height. Discretionary Activity 12.4 Natural Hazards Site is not within Hazard Areas mapped by FNDC [Coastal Hazard 1 and2]. No buildings of concern to fire risk. Complies 12.5 Heritage There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | | Complies |
| More than 20,000m3 of earthworks are proposed across the site / development area. The stopbank heights are proposed to be ~3m in height. Discretionary Activity 12.4 Natural Hazards Site is not within Hazard Areas mapped by FNDC [Coastal Hazard 1 and2]. No buildings of concern to fire risk. Complies There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | 12.2 Indigenous Flora & Fauna | proposal. |
| proposed across the site / development area. The stopbank heights are proposed to be ~3m in height. Discretionary Activity Site is not within Hazard Areas mapped by FNDC [Coastal Hazard 1 and2]. No buildings of concern to fire risk. Complies There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | | Complies |
| height. Discretionary Activity Site is not within Hazard Areas mapped by FNDC [Coastal Hazard 1 and2]. No buildings of concern to fire risk. Complies There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | 12.3 Soils & Minerals | · |
| Site is not within Hazard Areas mapped by FNDC [Coastal Hazard 1 and2]. No buildings of concern to fire risk. Complies 12.5 Heritage There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | | |
| FNDC [Coastal Hazard 1 and2]. No buildings of concern to fire risk. Complies There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | | Discretionary Activity |
| There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | 12.4 Natural Hazards | · · · · · · · · · · · · · · · · · · · |
| There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | | No buildings of concern to fire risk. |
| There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. Complies | | Complies |
| 12.7 Lakes, Rivers and Wetlands No buildings proposed. | 12.5 Heritage | There are no notable trees present on the site. There are no historic sites, buildings or objects relevant to the site / development area. Archaeological features are present but they are outside of the proposed works. The rule is not affected by the proposal. There is no proposed building, excavating, filling, planting of trees or clearance of vegetation within a Site of Cultural Significance to Maori. |
| | 12.7 Lakes, Rivers and Wetlands | No buildings proposed. |



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| | Complies |
|--|-------------------------------------|
| 12.8 Hazardous Substanaces | Not relevant as not proposed. |
| | Commiss |
| 40.0 Demourable France & France Officianos | Complies |
| 12.9 Renewable Energy & Energy Efficiency | Not relevant as not proposed. |
| | |
| 100 1 11 1 | Complies |
| 13 Subdivision | Not relevant as not proposed. |
| | |
| | Complies |
| 14 Financial Contributions | Not relevant. |
| | |
| | Complies |
| 15 Transportation | No buildings / activities proposed. |
| | |
| | Complies |
| 16 Signs and Lighting | Not relevant. |
| | |
| | Complies |
| 17 Designation | Not relevant. |
| | |
| | Complies |
| 18 Special Areas | Not relevant. |
| | |
| | Complies |
| 19 GMO's | Not relevant. |
| | |
| | Complies |

37. In terms of the Operative Plan the application falls to be considered as a **Discretionary Activity** because of the identified breaches.

4.1 FNDC Proposed District Plan

38. These comprise relevant rules that have immediate effect under the Proposed District Plan.

Table 5 – Proposed District Plan

| Rule | Assessment |
|----------------------|--|
| Hazardous Substances | Not relevant as no such substances proposed. |



| | Complies |
|--|--|
| Heritage Area Overlays | Not indicated on Far North Proposed District |
| | Plan. |
| | Complies |
| Historic Heritage | Not indicated on Far North Proposed District |
| | Plan. |
| | Complies |
| Notable Trees | Not indicated on Far North Proposed District |
| | Plan. |
| | Complies |
| Sites and Areas of Significance to Māori | There are no activities proposed within a |
| | SASM. |
| | Complies |
| Ecosystems and Indigenous Biodiversity | No vegetation clearance required. |
| | Complies |
| Activities on the Surface of Water | Not indicated on Far North Proposed District |
| | Plan |
| | Complies |
| Earthworks | Proposed earthworks will be in accordance |
| | with the relevant standards including GD-05 |
| | and the consent decision can have an ADP |
| | applied. |
| | Complies |
| Signs | Not indicated on Far North Proposed District |
| | Plan |
| | Complies |
| Orongo Bay Zone | Not indicated on Far North Proposed District |
| | Plan |
| | Complies |
| Subdivision | Not proposed. |

Complies

39. As above, no consents are required under the PDP.

5.0 STATUTORY CONSIDERATIONS

40. Section 104B governs the determination of applications for Discretionary activities.

104B Determination of applications for discretionary or non-complying activities

After considering an application for a resource consent for a discretionary activity or non-complying activity, a consent authority—

- (a) may grant or refuse the application; and
- (b) if it grants the application, may impose conditions under section 108.

Section 104B: inserted, on 1 August 2003, by section 44 of the Resource Management Amendment Act 2003 (2003 No 23).

When considering an application for resource consent, a consent authority must have regard to the matters under section 104 of the Resource Management Act 1991, including any matters relating to Part 2. References to Part 2 in applications are only required where Plans may be deficient in terms of giving effect to the purpose and principles of the Act.

41. Section 104 of the RMA sets out matters to be considered when assessing an application for a resource consent.

104 Consideration of applications

- When considering an application for a resource consent and any submissions received, the consent authority must, subject to Part 2, have regard to—
 - (a) any actual and potential effects on the environment of allowing the activity; and
 - (ab) any measure proposed or agreed to by the applicant for the purpose of ensuring positive effects on the environment to offset or compensate for any adverse effects on the environment that will or may result from allowing the activity; and
 - (b) any relevant provisions of—
 - (i) a national environmental standard:
 - (ii) other regulations:
 - (iii) a national policy statement:
 - (iv) a New Zealand coastal policy statement:
 - (v) a regional policy statement or proposed regional policy statement:
 - (vi) a plan or proposed plan; and
 - (c) any other matter the consent authority considers relevant and reasonably necessary to determine the application.
- 42. In the determination of this application, those considerations include the actual and potential effects of an activity on the environment, the relevant provisions of the Northland Regional Policy Statement (or other relevant statutory document), the Far North District Plan and any other matter the consent authority considers relevant and reasonably necessary to determine the application.
- 43. The following assessment addresses all of the relevant considerations under s104 of the RMA.



44. The RMA definition of 'Environment' includes:

- (a) Ecosystems and the constituent parts, including people and communities; and
- (b) All natural and physical resources; and
- (c) Amenity values; and
- (d) The social, economic, aesthetic, and cultural conditions which affect the matters stated in paragraphs (a) to (c) of this definition or which are affected by those matters.
- 45. The definition of 'Environment' includes the concept of a 'future state of the environment' where the environment as it currently exists might be modified by permitted activities and by resource consents that have been granted, and where it appears likely that those consents will be implemented.
- 46. Section 104(2) of the RMA states that:

"when forming an opinion for the purposes of subsection (1)(a), a consent authority may disregard an adverse effect of the activity on the environment if a national environmental standard or the plan permits an activity with that effect."

- 47. This is referred to as the "permitted baseline" which includes effects on the environment arising from permitted standards that form part of a District Plan.
- 48. In the context of this application, the permitted baseline includes the permitted residential activities standards for the Rural Production zone and the relevant district wide rules. Any adverse effects associated with these activities are deemed to be acceptable to the extent that they are permitted and may be disregarded in accordance with Section 104(2).
- 49. Within the Rural Production Zone and in relation to earthworks, each site is permitted up to 5,000m³ of cut and fill works to be undertaken. There are five Records of Title subject to the development. Therefore, 25,000m³ of works can be discounted from the total volume proposed. This is taken into consideration in the effects assessment below.
- 50. As there are no other activities involved or consents required, the remainder of the works, outside of those requiring regional consents, are permitted activities under the ODP and PDP.
- 51. The RMA meaning of 'effect' includes:



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3 Meaning of effect

In this Act, unless the context otherwise requires, the term effect includes-

- (a) any positive or adverse effect; and
- (b) any temporary or permanent effect; and
- (c) any past, present, or future effect; and
- (d) any cumulative effect which arises over time or in combination with other effects—regardless of the scale, intensity, duration, or frequency of the effect, and also includes—
- (e) any potential effect of high probability; and
- (f) any potential effect of low probability which has a high potential impact.
- 52. For this application, the potential adverse effects to be assessed are those arising from aspects of the proposal that have been identified as requiring a resource consent in the *Tables* above.

Table 6 - Assessment of Effects

| Matter | Assessment | |
|--|--|--|
| Positive Effects | | |
| Positive effects arising from the proposal | The proposal promotes continued investment | |
| | into the Kaeo Township and community through | |
| | flood protection / mitigation. | |
| | It builds on the Stage I works to provide a higher | |
| | level of service and reduce flooding effects at | |
| | certain locations. | |
| | The proposal takes into account climate change | |
| | considerations to ensure that the works are fit | |
| | for purpose for future generations. | |
| | While not a driving factor, the works will have | |
| | incidental economic and employment benefits | |
| | for the district and region through the various | |
| | service providers involved and goods brought. | |
| Earthworks [Derived from Chapter 12.3.7] | | |
| Any effects on the life supporting capacity of | The proposal is likely to result in effects to soils | |
| the soil | temporarily whilst works are being undertaken. | |
| | This will include the cut, and fill works to | |
| | establish the site and construct the flood measures. | |

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|---|
| Over time these temporary effects will subside, and during works will be mitigated appropriately through construction management and soil and erosion controls measures. |
| Whilst soils are predominantly Class 3 and subject to protection, the works are defined as 'specified infrastructure'. |
| As such, the proposed development on the land is exempt from the 'avoid' policy [Refer Clause 3.9[j][i]] within the National Policy Statement for Highly Productive Land. |
| On this basis, effects are considered to be less than minor. |
| The proposal does not introduce more |
| floodwater or stormwater into the system, it |
| simply moves the confluence downstream. |
| |
| Omaunu Road controls the flow and creates a |
| pseudo detention dam, therefore modelling |
| does not indicate adverse downstream effects. |
| The effects are positive in this respect. |
| Consent conditions will manage this effect |
| appropriately, at the least the applicant will be |
| expected to avoid / mitigate effects as follows: |
| the production of any conspicuous oil or grease films, scums or foams, floatable or suspended materials. A conspicuous change in colour or visual clarity. An emission of objectionable odour. An increase in suspended solids concentration greater than 100 grams per cubic metre. |
| |



| | Accordingly, adverse effects are no more than |
|--|--|
| | minor. |
| Any loss of visual amenity or loss of natural | The site is not located in the Coastal |
| character of the coastal environment. | Environment. |
| | |
| Effects on Outstanding Landscape Features | These features are not present. |
| and Outstanding Natural Features (refer to | |
| Appendices 1A and 1B in Part 4, and Resource | |
| Maps. | |
| The extent to which the activity may adversely | These features are not present; however the |
| affect areas of significant indigenous | applicant has undertaken a baseline fish |
| vegetation or significant habitats of | survey, and wetland delineation with results |
| indigenous fauna. | pending. |
| | The applicant will work with the Council to |
| | determine appropriate consent conditions [if |
| | any] that arise from the conclusions of these |
| | reports. |
| The extent to which the activity may adversely | The works are clear of the registered |
| affect heritage resources, especially | archaeological site. |
| archaeological sites. | |
| The extent to which the activity may adversely | Mana whenua are part of the catchment group |
| affect the cultural and spiritual values of | who have authorized the lodging of consents. |
| Maori, especially Sites of Cultural | |
| Significance to Maori and waahi tapu (as | Whilst cultural features are not readily apparen |
| listed in Appendix 1F in Part 4, and shown on | where works are proposed, this does not |
| the Resource Maps). | necessarily mean that they are not potentially |
| the nesource maps). | impacted. |
| | impacted. |
| | To ensure appropriate consideration of this |
| | matter, the applicant has met with and |
| | requested feedback from local lwi / Hapu |
| | |
| | groups for the overall body of works which will |
| | support both applications. |
| | This feedback will be provided when received. |
| Any cumulative adverse effects on the | All effects are considered to be temporary in |
| environment arising from the activity. | nature, arising at time of works / construction. |
| | Following this the proposal will largely have a |
| | positive impact as shown in Figure 2, with a |
| | modelled reduction in floodwater effects for the |

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| | Kaeo Township. |
|--|--|
| | |
| | There are no known cumulative adverse effects |
| | arising. |
| The effectiveness of any proposals to avoid, | The following consent conditions are expected |
| remedy or mitigate any adverse effects arising | for the proposal: |
| from the activity. | |
| , | Pre-start site meeting with relevant |
| | authorities and the principal earthworks |
| | contractor. |
| | Works being undertaken with approved |
| | plans. |
| | Sediment control measures constructed |
| | and maintained in accordance with GD05. |
| | Provision of an Erosion and Sediment |
| | Control Plan which includes: |
| | The expected duration [timing and] |
| | staging] of earthworks, location of |
| | disposal sites, and clean water |
| | diversions [if required]. |
| | Details of all erosion and sediment |
| | controls including diagrams and plans. |
| | The commencement and completion |
| | dates for the implementation of the |
| | erosion and sediment controls. |
| | Details of surface revegetation. |
| | Measures to minimize sediment being |
| | deposited on public roads. |
| | Measures to ensure dust discharge |
| | from the activity does not create a |
| | nuisance. |
| | Measures to prevent spillage of fuel, |
| | oil, and other contaminants. |
| | Means of ensuring contractor |
| | compliance with the Plan. |
| | Name and contact details of persons |
| | responsible for monitoring and |
| | maintaining all erosion and sediment |
| | control measures. |
| | Contingency for the potential effects of |
| | large/high intensity rain storm events. |

| Bay of Island Planning Limited Website: <u>www.baypian.co.nz</u> | Provision of a stabilized construction entrance to the site. Works not being undertaken from 1 May to 30 September unless approved. Management of stormwater away from the earthworks areas and capable of managing a 1 in 20 year event if drains / cut offs are |
|---|--|
| | Management of water quality by avoiding the effects of: the production of any conspicuous oil or grease films, scums or foams, floatable or suspended materials. A conspicuous change in colour or visual clarity. An emission of objectionable odour. An increase in suspended solids concentration greater than 100 grams per cubic metre. |
| | Section 128 review condition to deal with any adverse effects on the environment that may arise from the exercise of the consent. |
| | Through implementation of these conditions, effects will be no more than minor. |
| The ability to monitor the activity and to take remedial action if necessary; | Consent conditions will provide appropriate avenues for works to be monitored as they are completed. |
| The criteria in Section 11.20 Development Plans in Part 2. | Not relevant. |
| The criteria (p) in Section 17.2.7 National Grid Yard. | Not relevant. |
| Effects to Persons | |
| Potential effects to persons arising from the proposal. | There are no affected customary rights groups or marine title groups. |
| | The applicant is going through legal processes to acquire land for the proposed works. |
| | This will ensure that works will be undertaken |



| entirely on land owned / managed by the |
|---|
| applicant. |
| |
| The flood mitigation works, when subjected to |
| the conditions outlined above, will have only |
| temporary effects to others in the surrounds. |
| These temporary effects are considered less |
| than minor and all manageable through consent |
| conditions. |

53. Overall, it is considered that the actual and potential adverse effects of the proposal would be less than minor.

6.0 RELEVANT PLAN CONSIDERATIONS

- 54. Section 104 (1)(b) requires that regard be given to the relevant provisions of:
 - A national environmental standard;
 - Other regulations;
 - A national policy statement;
 - A New Zealand coastal policy statement;
 - A regional policy statement or proposed regional policy statement;
 - A plan or proposed plan
- 55. There are no applicable National Environmental Standards. It is concluded that the site is not a HAIL site and that the National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health does not apply to this proposal.
- 56. Furthermore, the activity is not affected by the NES Freshwater as the proposal is considered to be for 'specified infrastructure'.
- 57. In terms of relevant National Policy Statements, the NPS for Highly Productive Land does apply, but as above the proposal is for 'specified infrastructure' which provides an exemption for such activities. The NPS for Indigenous Biodiversity has no rules so is not relevant.
- 58. The New Zealand Coastal Policy Statement is not relevant as the site is not mapped within the environment as per the Regional Policy Statement for Northland.

6.1 Northland Regional Policy Statement

59. The subject site is within the Northland region and is subject to the governing objectives and policies of the operative Northland Regional Policy Statement (operative May 2016). It is concluded that the proposal is consistent with the aims and intent of this document.



Table 7 – Assessment of the RPS

| Matter | Assessment |
|---|--|
| Integrated Catchment Management | Not relevant |
| Region Wide Water Quality | Mitigation measures are proposed to ensure that water quality is not adversely affected and maintained. |
| Ecological Flows and Water Quality | No water take is proposed. |
| Indigenous Ecosystems & Biodiversity | There are no SNAs at the development location |
| Enabling Economic Wellbeing | This is incidental to the main purpose of the development. There will be economic exchanges as a result of the proposal. |
| Economic Activities – Reverse Sensitivity and Sterilization | The proposal does not sterilise any other activities. |
| Regionally Significant Infrastructure | The proposal meets the definition of regionally significant infrastructure. The proposal is positive for the region of Northland and the Kaeo Township. |
| Efficient and Effective Infrastructure | The proposal seeks to build on already completed flood control infrastructure and Kaeo. |
| Security of Energy Supply | Not relevant. |
| Use and Allocation of Common Resources | Not relevant. |
| Regional Form | Not relevant. |
| Tangata Whenua Role in Decision Making | Tangata whenua have been involved in the project. There further views will be provided in the form of feedback and through continued discussion in the committee meetings. |
| Natural Hazard Risk | The entire proposal is targeted to reduce natural hazard [flooding] risk for Kaeo. |
| Natural Character, Outstanding Natural Features, Outstanding Natural Landscapes and Historic Heritage | These features are not located at the development site. |

6.2 FNDC Operative District Plan



60. The relevant objectives are those associated with the Coastal Environment, General Coastal Zone and Subdivision Chapter of the ODP. These are addressed below.

Table 8 - Rural Environment Assessment

| Objectives | Assessment |
|--|--|
| 8.3.1 To promote the sustainable management | This is considered to be met, particularly in |
| of natural and physical resources of the rural environment. | relation to wellbeing of the Kaeo Township |
| | through reduced flooding impacts. |
| 8.3.2 To ensure that the life supporting | The proposal is considered to be appropriate in |
| capacity of soils is not compromised by | that specified infrastructure is exempt from the |
| inappropriate subdivision, use or | consideration of high class soils. |
| development. 8.3.3 To avoid, remedy or mitigate the adverse | Mitigation approaches are outlined in earlier |
| and cumulative effects of activities on the rural | |
| environment. | tables. |
| 8.3.4 To protect areas of significant indigenous | These are not readily apparent on the site. |
| vegetation and significant habitats of | |
| indigenous fauna. | |
| 8.3.5 To protect outstanding natural features | Not relevant. |
| and landscapes. | |
| 8.3.6 To avoid actual and potential conflicts | The proposal does not have a conflict with the |
| between land use activities in the rural environment. | surrounding uses. |
| 8.3.7 To promote the maintenance and | Flood protection works such as that proposed |
| enhancement of amenity values of the rural | does not result in an amenity that is not |
| environment to a level that is consistent with | foreseen within the Rural Environment. |
| the productive intent of the zone. | Toreseen within the Kurat Environment. |
| 8.3.8 To facilitate the sustainable | Not relevant. |
| management of natural and physical | |
| resources in an integrated way to achieve | |
| superior outcomes to more traditional forms of | |
| subdivision, use and development through | |
| management plans and integrated development. | |
| 8.3.9 To enable rural production activities to | The proposal is not strictly a rural production |
| be undertaken in the rural environment. | activity, but has a function need to be located |
| | where it has to limit the effects of flooding. |
| 8.3.10 To enable the activities compatible with | The activity is considered to be compatible. |
| the amenity values of rural areas and rural | The activity is considered to be compatible. |
| production activities to establish in the rural | |
| environment. | |
| Policies | Assessment |
| 8.4.1 That activities which will contribute to | Refer 8.3.9 above. |
| the sustainable management of the natural | |
| and physical resources of the rural | |



| environment are enabled to locate in that environment. 8.4.2 That activities be allowed to establish within the rural environment to the extent that any adverse effects of these activities are able to be avoided, remedied or mitigated and as a result the life supporting capacity of soils and ecosystems is safeguarded and rural productive activities are able to continue. 8.4.3 That any new infrastructure for development in rural areas be designed and operated in a way that safeguards the life supporting capacity of air, water, soil and ecosystems while protecting areas of significant indigenous vegetation and significant habitats of indigenous significant habitats of indigenous be enabled to locate in the rural environment. 8.4.5 That plan provisions encourage the avoidance of adverse effects from incompatible land uses, particularly new developments adversely affecting existing land-uses on account of sensitivity by the new use to adverse effects from the existing use – i.e. reverse sensitivity). 8.4.6 That areas of significant indigenous vegetation and significant habitats of indigenous fauna hab | Day of Island Flamming Elimited Website. WWW.Dayplam.co.iiiz | 2 |
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| | | |



| amenity value of the rural environment, and where appropriate on natural character of the | |
|---|--|
| coastal environment, are avoided, remedied or mitigated. | |
| Consideration will further be given to the | |
| functional need for the activity to be within | |
| rural environment and the potential cumulative | |
| effects of non-farming activities. | |

Table 9 – Rural Production Zone Assessment

| Objectives | Assessment |
|---|---|
| 8.6.3.1 To promote the sustainable | Addressed in 8.3.1 above. |
| management of natural and physical | |
| resources in the Rural Production Zone. | |
| 8.6.3.2 To enable the efficient use and | The proposal is considered to represent an |
| development of the Rural Production Zone in a | efficient use of land. |
| way that enables people and communities to | |
| provide for their social, economic, and cultural | |
| well-being and for their health and safety. | |
| 8.6.3.3 To promote the maintenance and | Addressed in 8.3.7 above. |
| enhancement of the amenity values of the | |
| Rural Production Zone to a level that is | |
| consistent with the productive intent of the | |
| zone | |
| 8.6.3.4 To promote the protection of | There are no known significant natural values |
| significant natural values of the Rural | that apply to the site. |
| Production Zone. | |
| 8.6.3.5 To protect and enhance the special | Not relevant. |
| amenity values of the frontage to Kerikeri Road | |
| between its intersection with SH10 and the | |
| urban edge of Kerikeri. | |
| 8.6.3.6 To avoid, remedy or mitigate the actual | Addressed in 8.4.5 above. |
| and potential conflicts between new land use | |
| activities and existing lawfully established | |
| activities (reverse sensitivity) within the Rural | |
| Production Zone and on land use activities in | |
| neighbouring zones. | |
| 8.6.3.7 To avoid remedy or mitigate the | Addressed in 8.4.5 above. |
| adverse effects of incompatible use or | |
| development on natural and physical | |
| resources. | 71 1 1 1 1 1 1 1 |
| 8.6.3.8 To enable the efficient establishment | The proposal is considered to have a functional |
| and operation of activities and services that | need to be located in the rural environment. |
| have a functional need to be located in rural | |
| environments. | |



| The state of the s | 1 C 1 W 1 C 1 |
|--|---|
| 8.6.3.9 To enable rural production activities to be undertaken in the zone. | The proposal attains this objective. |
| Policies | Assessment |
| 8.6.4.1 That the Rural Production Zone enables farming and rural production activities, as well as a wide range of activities, subject to the need to ensure that any adverse effects on the environment, including any reverse sensitivity effects, resulting from these activities are avoided, remedied or mitigated and are not to the detriment of rural productivity. | Mitigation measures are proposed which meet the policy. |
| 8.6.4.2 That standards be imposed to ensure that the off-site effects of activities in the Rural Production Zone are avoided, remedied or mitigated. | There are no known off site effects resulting. |
| 8.6.4.3 That land management practices that avoid, remedy or mitigate adverse effects on natural and physical resources be encouraged. | GD05 measures proposed meet the intent of this policy. |
| 8.6.4.4 That the type, scale and intensity of development allowed shall have regard to the maintenance and enhancement of the amenity values of the Rural Production Zone to a level that is consistent with the productive intent of the zone. | Address above. |
| 8.6.4.5 That the efficient use and development of physical and natural resources be taken into account in the implementation of the Plan. | The proposal is considered to represent an efficient use of land. |
| 8.6.4.6 That the built form of development allowed on sites with frontage to Kerikeri Road between its intersection with SH10 and Cannon Drive be maintained as small in scale, set back from the road, relatively inconspicuous and in harmony with landscape plantings and shelter belts. | Not relevant. |
| 8.6.4.7 That although a wide range of activities that promote rural productivity are appropriate in the Rural Production Zone, an underlying goal is to avoid the actual and potential adverse effects of conflicting land use activities. | There are no direct conflicting uses in the surrounds. |
| 8.6.4.8 That activities whose adverse effects, including reverse sensitivity effects, cannot be avoided remedied or mitigated are given separation from other activities | There are no direct conflicting uses in the surrounds. |
| 8.6.4.9 That activities be discouraged from locating where they are sensitive to the effects | There are no direct conflicting uses in the |



| of or may compromise the continued operation | surrounds. |
|--|------------|
| of lawfully established existing activities in the | |
| Rural Production zone and in neighbouring | |
| zones. | |

Table 10 – Soils & Minerals Assessment

| Objectives | Assessment |
|--|--|
| 12.3.3.1 To achieve an integrated approach to the responsibilities of the Northland Regional Council and Far North District Council in respect to the management of adverse effects arising from soil excavation and filling, and minerals extraction. | The proposal seeks approvals from both authorities. |
| 12.3.3.2 To maintain the life supporting capacity of the soils of the District. | This is considered achieved as all soil will remain on site and the ultimate end use seeks to utilise soils hazard mitigation. |
| 12.3.3.3 To avoid, remedy or mitigate adverse effects associated with soil excavation or filling. | Refer to earlier tables for mitigation measures proposed. |
| 12.3.3.4 To enable the efficient extraction of minerals whilst avoiding, remedying or mitigating any adverse environmental effects that may arise from this activity. | Not relevant. |
| Policies | Assessment |
| 12.3.4.1 That the adverse effects of soil erosion are avoided, remedied or mitigated. 12.3.4.2 That the development of buildings or impermeable surfaces in rural areas be managed so as to minimise adverse effects on the life supporting capacity of the soil. 12.3.4.3 That where practicable, activities associated with soil and mineral extraction be located away from areas where that activity would pose a significant risk of adverse effects to the environment and/or to human health. | Refer to earlier tables for mitigation measures proposed. Not relevant. The proposal is not for extraction. |
| Such areas may include those where: (a) there are people living in close proximity to the site or land in the vicinity of the site is zoned Residential, Rural Living, Coastal Residential or Coastal Living; (b) there are significant ecological, landscape, cultural, spiritual or heritage values; | |



Bay of Island Planning Limited | Website: www.bayplan.co.nz | Email: office@bayplan.co.nz

| bay of Island Flamming Limited Website. www.baybian.co.nz | Email: Office@baypian.co.nz |
|---|---|
| (c) there is a potential for adverse effects on | |
| lakes, rivers, wetlands and the coastline; | |
| | |
| (d) natural hazards may pose unacceptable | |
| risks. | |
| 12.3.4.4 That soil excavation and filling, and | Refer to earlier tables for mitigation measures |
| mineral extraction activities be designed, | proposed. |
| constructed and operated to avoid, remedy or | p.oposos. |
| mitigate adverse effects on people and the | |
| environment | |
| 12.3.4.5 That soil conservation be promoted. | Soils will remain on site, conserved for future |
| 12.5.4.5 Mat 301t conservation be promoted. | use. |
| 12.3.4.6 That mining tailings that contain toxic | Not relevant. |
| or bio-accumulative chemicals are contained | Not retevant. |
| in such a way that adverse effects on the | |
| environment are avoided. | |
| 12.3.4.7 That applications for discretionary | Not relevant. |
| activity consent involving mining and quarrying | Not retevant. |
| be accompanied by a Development Plan. | |
| 12.3.4.8 That as part of a Development Plan | Not relevant. |
| rehabilitation programmes for areas no longer | Not retevant. |
| | |
| capable of being actively mined or quarried | |
| may be required. | Naturalariant |
| 12.3.4.9 That soil excavation and filling in the | Not relevant. |
| National Grid Yard are managed to ensure the | |
| stability of National Grid support structures | |
| and the minimum ground to conductor | |
| clearances are maintained. | Natural |
| 12.3.4.10 To ensure that soil excavation and | Not relevant. |
| filling are managed appropriately, normal rural | |
| practices as defined in Chapter 3 will not be | |
| exempt when determining compliance with | |
| rules relating to earthworks, except if the | |
| permitted standards in the National Grid Yard | |
| specify that activity is exempt. | |

61. Overall, it is considered that the proposed dwelling development would not be contrary to any applicable District Plan objective or policy.

6.4 FNDC Proposed District Plan Objectives and Policies

62. The relevant objectives are those associated with the Rural Production Zone of the PDP. These are addressed below.

Table 11 - Rural Production Zone

| Matter | Assessment |
|--------|------------|
| | |



| Bay of Island Planning Limited Website: <u>www.baypian.co.nz</u> | |
|--|---|
| RPROZ-O1 - The Rural Production zone is | Rural production activities are likely to |
| managed to ensure its availability for primary | eventuate on the land subject to the works and |
| production activities and its long-term | the wider surrounds. |
| 1 ' | tile wider surrounds. |
| protection for current and future generations. | |
| RPROZ-O2 - The Rural Production zone is used | The proposal is compatible and has a |
| for primary production activities, ancillary | functional need to locate where it is proposed |
| activities that support primary production and | to provide positive effects to the Kaeo |
| other compatible activities that have | Township. |
| · | Township. |
| a functional need to be in a rural environment. | |
| RPROZ-O3 - Land use and subdivision in the | The proposal is for 'specified infrastructure' so |
| Rural Production zone: | has a pathway to be exempt from |
| | consideration of soils. |
| protects highly productive | |
| | |
| land from sterilisation and enables it to be | |
| used for more productive forms of primary | |
| production; | Reverse sensitivity effects are not known to |
| | arise from the proposed works. |
| protects primary production activities from | and a man and proposed from the |
| | |
| reverse sensitivity effects that may constrain | |
| their effective and efficient operation; | |
| | Farming is not compromised, but is unlikely to |
| does not compromise the use | occur. |
| of land for farming activities, particularly | |
| on highly productive land; | |
| off flightly productive tailu, | |
| | |
| does not exacerbate any natural hazards; and | The proposal seeks to reduce natural hazard |
| | impacts. The proposal does not need servicing. |
| is able to be serviced by on-site infrastructure. | |
| RPROZ-O4 - The rural character and amenity | This is not expected to change and stop banks |
| associated with a rural working environment is | and river realignments are expected within this |
| maintained. | zone. |
| | |
| RPROZ-P1 Enable primary | Not proposed. |
| production activities, provided they internalise | |
| adverse effects onsite where practicable, while | |
| recognising that typical | |
| adverse effects associated with primary | |
| production should be anticipated and | |
| <u> </u> | |
| accepted within the Rural Production zone. | |
| RPROZ-P2 - Ensure the Rural Production zone | Noted. |
| provides for activities that require a rural | |
| location by: | |
| enabling primary production activities as the | |
| | |
| predominant land use; | |
| enabling a range of compatible activities that | |
| support primary production activities, | |
| oupport primary production activities, | |



| 24, 6. 1914.14 . 1411.11 . 8 2.111.124 17.020.121 . 1.111.124 17.020.121 . 1.111.124 17.020.121 | |
|--|---|
| including ancillary activities, rural produce | |
| manufacturing, rural produce retail, visitor | |
| accommodation and home businesses. | Nie genetki za zaki ziki za zwe zwe za zak |
| RPROZ-P3 - Manage the establishment, design and location of new sensitive activities and | No sensitive activities are proposed. |
| other non-productive activities in the Rural | |
| Production Zone to avoid where possible, or | |
| otherwise mitigate, reverse | |
| sensitivity effects on primary | |
| production activities. | |
| RPROZ-P4 - Land use and subdivision activities | This is considered to be met. |
| are undertaken in a manner that maintains or | |
| enhances the rural character and amenity of | |
| the Rural Production zone, which includes: | |
| | |
| a predominance of primary | |
| production activities; | |
| | |
| low density development with generally | |
| low site coverage of buildings or structures; | |
| to de la decessa de la constante de la constan | |
| typical adverse effects such as | |
| odour, noise and dust associated with a rural | |
| working environment; and | |
| a diverse range of rural environments, rural | |
| character and amenity values throughout the | |
| District. | |
| RPROZ-P5 - Avoid land use that: | The proposal is not strictly in line with the |
| | policy as soils will be lost, however this is |
| is incompatible with the purpose, character | promoted through the NPS. |
| and amenity of the Rural Production zone; | |
| | |
| does not have a functional need to locate in | |
| the Rural Production zone and is more | |
| appropriately located in another zone; | |
| would result in the loss of productive conscitu | |
| would result in the loss of productive capacity | |
| of highly productive land; | |
| would exacerbate natural hazards; and | |
| The state of the s | |
| cannot provide appropriate on- | |
| | |
| site infrastructure. | |
| RPROZ-P6 - Avoid subdivision that: | Not relevant. |



| bay or island ramming Emitted Websiter WWW.bayblanteomz | 71 |
|--|--|
| results in the loss of highly productive land for use by farming activities; | |
| fragments land into parcel sizes that are no longer able to support farming activities, taking into account: | |
| the type of farming proposed; and | |
| whether smaller land parcels can support more productive forms of farming due to the presence of highly productive land. | |
| provides for rural lifestyle living unless there is an environmental benefit. | |
| RPROZ-P7 Manage land use and subdivision to address the effects of the activity requiring resource consent, including (but not limited to) consideration of the following matters where relevant to the application: | These matters are somewhat related to the proposal. However, overall the proposal is likely to meet most of these requirements and have been assessed earlier. |
| whether the proposal will increase production potential in the zone; | |
| whether the activity relies on the productive nature of the soil; | |
| consistency with the scale and character of the rural environment; | |
| location, scale and design of buildings or structures; | |
| for subdivision or non-primary production activities: | |
| scale and compatibility with rural activities; | |
| potential reverse sensitivity effects on primary production activities and existing infrastructure; | |
| the potential for loss of highly productive land, land sterilisation or fragmentation | |
| at zone interfaces: | |
| | |



| any setbacks, fencing, screening or landscaping required to address potential conflicts; |
|--|
| the extent to which adverse effects on adjoining or surrounding sites are mitigated and internalised within the site as far as practicable; |
| the capacity of the site to cater for on- site infrastructure associated with the proposed activity, including whether the site has access to a water source such as an irrigation network supply, dam or aquifer; |
| the adequacy of roading infrastructure to service the proposed activity; |
| Any adverse effects on historic heritage and cultural values, natural features and landscapes or indigenous biodiversity; |
| Any historical, spiritual, or cultural association held by tangata whenua, with regard to the matters set out in Policy TW-P6. |

6.4 Proposed Far North District Plan Objectives & Policies & Weighting

- 63. Section 88A(2) provides that "any plan or proposed plan which exists when the application is considered must be had regard to in accordance with section 104(1)(b)." This requires applications to be assessed under both the operative and proposed objective and policy frameworks from the date of notification of the proposed district plan.
- 64. In the event of differing directives between objective and policy frameworks, it is well established by case law that the weight to be given to a proposed district plan depends on what stage the relevant provisions have reached, the weight generally being greater as a proposed plan move through the notification and hearing process. In Keystone Ridge Ltd v Auckland City Council3, the High Court held that the extent to which the provisions of a proposed plan are relevant should be considered on a case by case basis and might include:
 - The extent (if any) to which the proposed measure might have been exposed to testing and independent decision making.
 - Circumstances of injustice; and
 - The extent to which a new measure, or the absence of one, might implement a coherent pattern of objectives and policies in a plan.

65. In my view the PDP has not gone through the sufficient process to allow a considered view of the objectives and policies for the Rural Production Zone with however this has been provided. The assessment of the relevant objectives and policies from the ODP and the PDP has concluded these can be meet by the proposal.

7.0 SECTION 5 - PURPOSE OF THE ACT

- 66. Section 5 in Part 2 of the Act identifies the purpose as being the sustainable management of natural and physical resources. This means managing the use of natural and physical resources in a way that enables people and communities to provide for their social, cultural and economic well-being which sustain those resources for future generations, protecting the life supporting capacity of ecosystems, and avoiding remedying or mitigating adverse effects on the environment.
- 67. It is considered that proposal represents Part 2, Section 5 of the Act.

7.1 Section 6 - Matters of National Importance

- 68. In achieving the purpose of the Act, a range of matters are required to be recognised and provided for. This includes:
 - a) the preservation of the natural character of the coastal environment (including the coastal marine area), wetlands, and lakes and rivers and their margins, and the protection of them from inappropriate subdivision, use, and development:
 - b) the protection of outstanding natural features and landscapes from inappropriate subdivision, use, and development:
 - c) the protection of areas of significant indigenous vegetation and significant habitats of indigenous fauna:
 - d) the maintenance and enhancement of public access to and along the coastal marine area, lakes, and rivers:
 - e) the relationship of Māori and their culture and traditions with their ancestral lands, water, sites, wāhi tapu, and other taonga:
 - f) the protection of historic heritage from inappropriate subdivision, use, and development:
 - g) the protection of protected customary rights:
 - h) the management of significant risks from natural hazards.
- 69. In context, the relevant items to the proposal and have been recognised and provided for.

7.2 Section 7 - Other Matters



- 70. In achieving the purpose of the Act, a range of matters are to be given particular regard. This includes:
 - (a) kaitiakitanga:
 - (aa) the ethic of stewardship:
 - (b) the efficient use and development of natural and physical resources:
 - (ba) the efficiency of the end use of energy:
 - (c) the maintenance and enhancement of amenity values:
 - (d) intrinsic values of ecosystems:
 - (e) [Repealed]
 - (f) maintenance and enhancement of the quality of the environment:
 - (g) any finite characteristics of natural and physical resources:
 - (h) the protection of the habitat of trout and salmon:
 - (i) the effects of climate change:
 - (j) the benefits to be derived from the use and development of renewable energy.
- 71. These matters have been given particular regard through the design of the proposal.

7.3 Section 8 - Treaty of Waitangi

72. The Far North District Council is required to take into account the principles of the Treaty of Waitangi when processing this consent. This consent application may be sent to local lwi and hapū who may have an interest in this application.

8.0 CONCLUSION

- 73. A Discretionary Activity resource consent is sought from the Far North District Council to carry out the land use and subdivision activity.
- 74. The proposal is considered to result in less than minor effects on the environment and through assessment, there are no minor or more than minor effects to persons.
- 75. The proposal is consistent with the objectives and policies of the Far North District Plan, the Regional Policy Statement for Northland, and achieves the purpose of the Act.
- 76. Relevant NPS' and NES' have been considered with the proposal finding consistency with their general aims and intent.

Steven Sanson

Consultant Planner





Guaranteed Search Copy issued under Section 60 of the Land Transfer Act 2017

R.W. Muir Registrar-General of Land

Identifier NA2D/6

Land Registration District North Auckland
Date Issued 21 November 1963

Prior References

NA3/142

Estate Fee Simple

Area 1.9678 hectares more or less

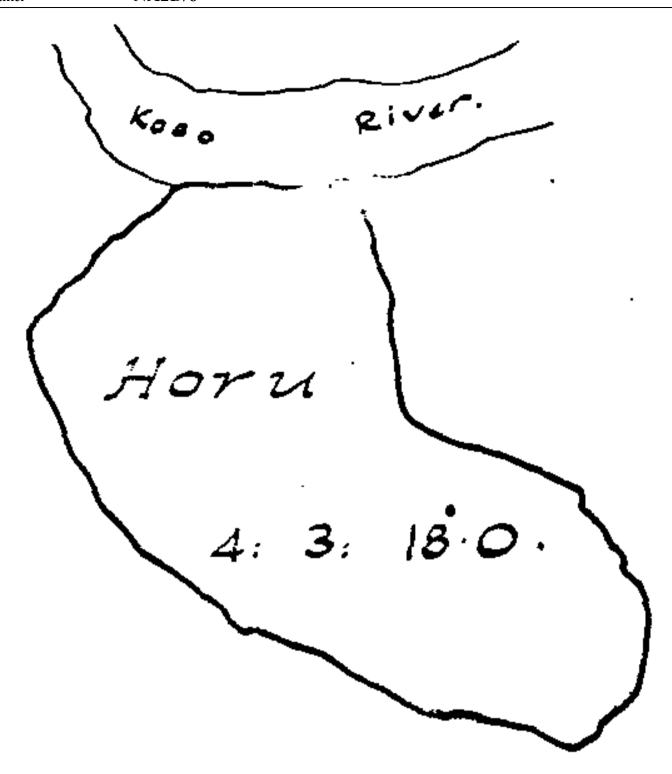
Legal Description Horu Block

Registered Owners

J.L. Hayes & Sons Limited

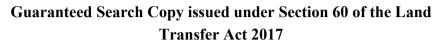
Interests

999831.1 Mortgage to ANZ Banking Group (New Zealand) Limited - 9.10.1981 at 12.25 pm













Identifier NA4D/903

Land Registration District North Auckland

Date Issued 27 November 1964

Prior References NA518/197

Estate Fee Simple

Area 7335 square metres more or less

Legal Description Part Snowdens Grant

Registered Owners

Third View Investments 2014 Limited

Interests

Subject to a right of way over part created by Conveyance 123933 (R42/452)

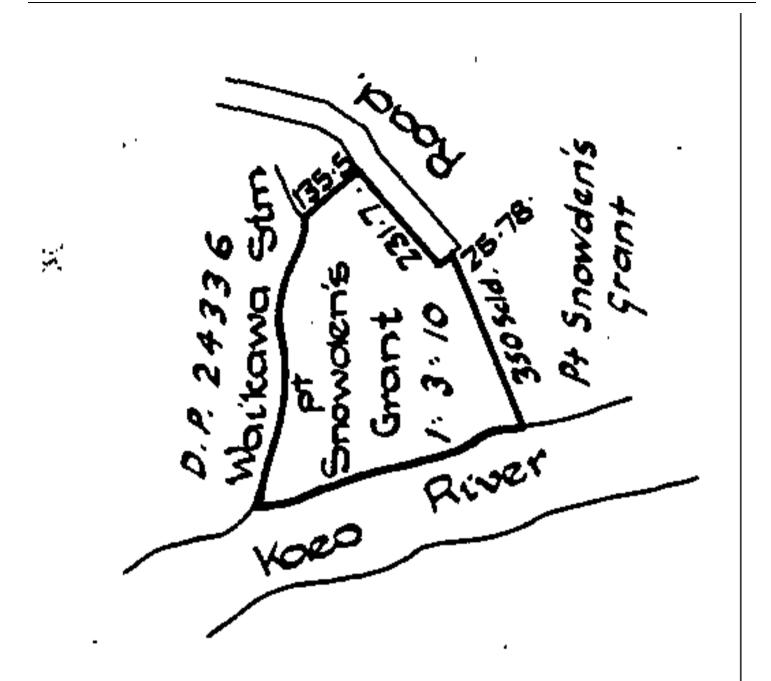
Subject to a right of way over part created by Conveyance 144047 (R60/493)

Subject to a right of way over part created by Conveyance 196787 (R159/487)

Subject to a water supply easement over part marked A on DP 375063 created by Easement Instrument 7064882.4 - 11.10.2006 at 9:00 am

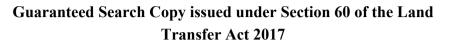
9356749.1 Notice pursuant to Section 23 Public Works Act 1981 - 3.4.2013 at 7:00 am

Subject to a right (in gross) to flood (flow path) over part marked N, stop bank over part marked B on SO 459897 and right of way in favour of Northland Regional Council created by Easement Instrument 9482600.3 - 31.10.2013 at 9:35 am





Limited as to Parcels





R.W. Muir Registrar-General of Land

Identifier NA48C/581

Land Registration District North Auckland
Date Issued 11 December 1980

Prior References

NA502/94

Estate Fee Simple

Area 8.7971 hectares more or less

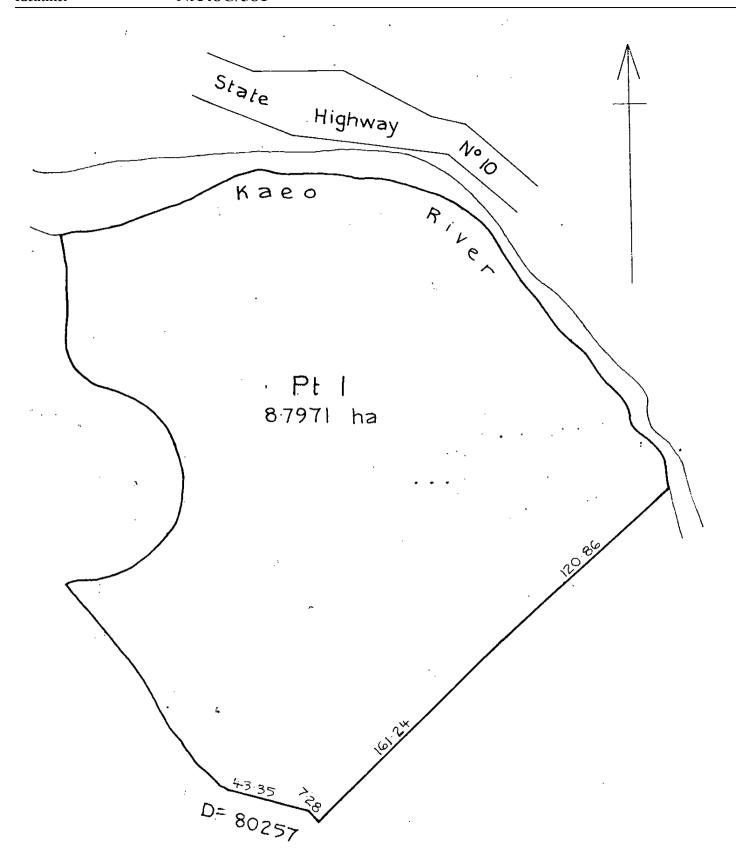
Legal Description Part Allotment 1 Parish of Kaeo

Registered Owners

J. L. Hayes & Sons Limited

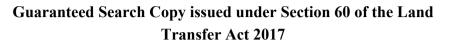
Interests

999831 Mortgage to ANZ Banking Group (New Zealand) Limited - 9.10.1981 at 12.25 pm





Limited as to Parcels







Identifier NA502/92

Land Registration District North Auckland

Date Issued 06 November 1925

Prior ReferencesDI 1 H. 834

Estate Fee Simple

Area 83.7699 hectares more or less

Legal Description Part Allotment 1 Parish of Kaeo

Registered Owners

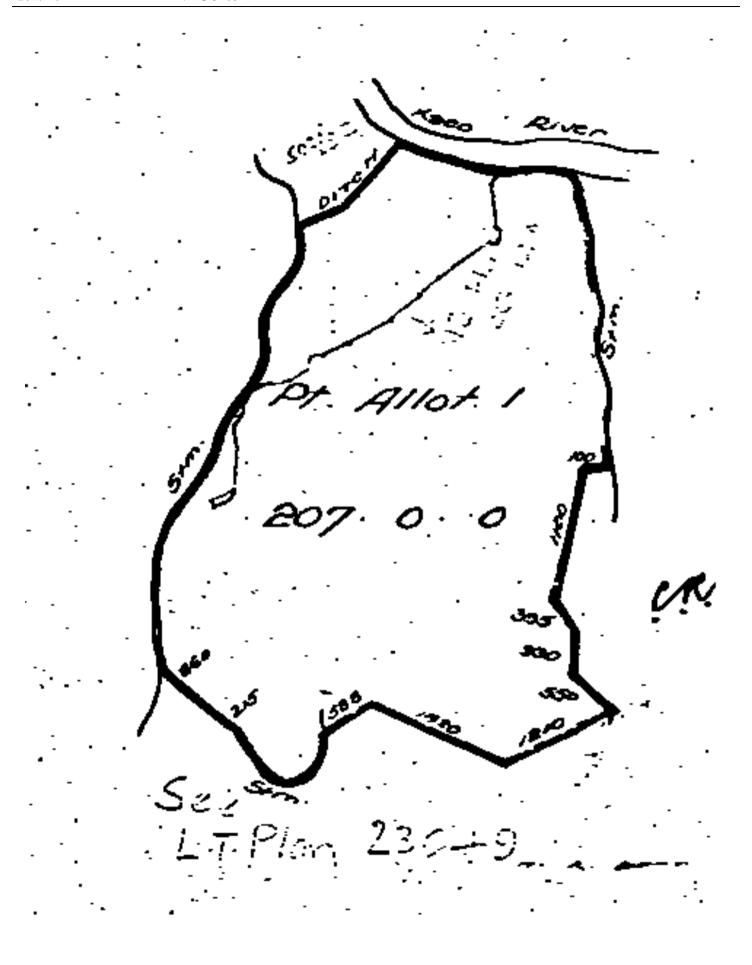
Leslie Kelman Jackson and Jeanette Yvonne Jackson

Interests

579204 Transfer being a grant of water easement over Lots 1, 2 & 4 Plan 36214 appurtenant to the land in CT NA578/197 Henry Robert Leslie to The Public Trustee - produced 9.1.1953 at 12.00 pm Term 10 years commencing from 1.3.1947 9356749.1 Notice pursuant to Section 23 Public Works Act 1981 - 3.4.2013 at 7:00 am

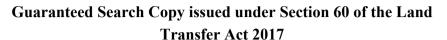
Subject to a right (in gross) to flood (flow path) over part marked R on SO 459897 in favour of Northland Regional Council created by Easement Instrument 9482600.1 - 31.10.2013 at 9:35 am

Subject to a right (in gross) to convey electricity and telecommunications over part marked B on DP 535420 in favour of Top Energy Limited created by Easement Instrument 11506097.2 - 3.9.2019 at 12:16 pm





Limited as to Parcels







Identifier NA1089/79

Land Registration District North Auckland

Date Issued 20 October 1953

Prior References

NA518/201

Estate Fee Simple

Area 2.2915 hectares more or less

Legal Description Part Snowdens Grant

Registered Owners

Leslie Kelman Jackson and Jeanette Yvonne Jackson

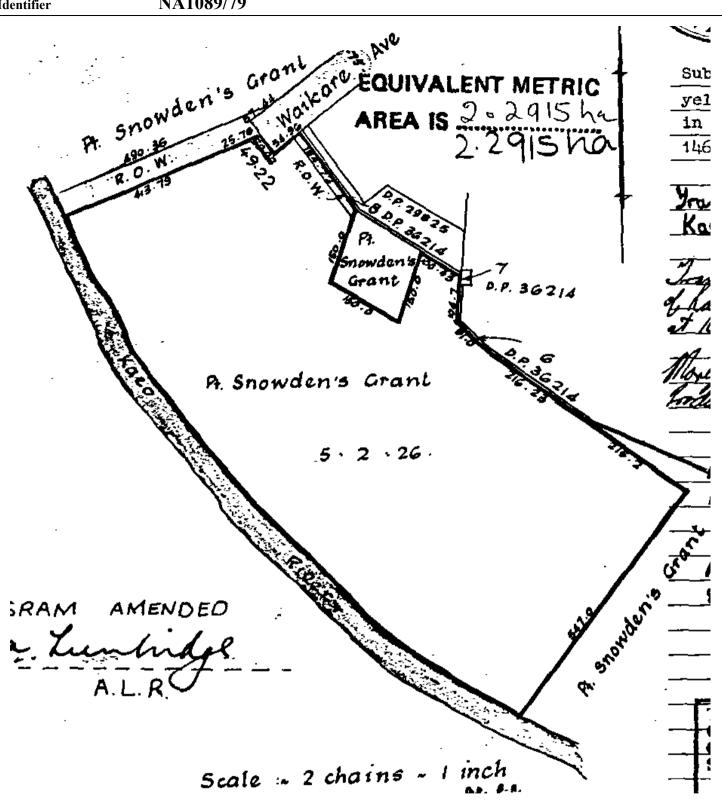
Interests

Subject to a right of way over part created by Conveyance 146201 (R.55/895)

9356749.1 Notice pursuant to Section 23 Public Works Act 1981 - 3.4.2013 at 7:00 am

Subject to a right (in gross) to flood (flow path) over part marked M and stopbank (flow path) over part marked C on SO 459897 in favour of Northland Regional Council created by Easement Instrument 9482600.1 - 31.10.2013 at 9:35 am

10148434.1 Notification that a building consent issued pursuant to Section 72 Building Act 2004 identifies inundation as a natural hazard - 7.8.2015 at 7:00 am







Guaranteed Search Copy issued under Section 60 of the Land Transfer Act 2017

R.W. Muir Registrar-General of Land

Identifier NA35B/601

Land Registration District North Auckland

Date Issued 09 December 1976

Prior References

NA36D/1145 NA36D/1146 NA480/113

Estate Fee Simple

Area 3.7827 hectares more or less

Legal Description Lot 7-8 Deposited Plan 80257 and Part

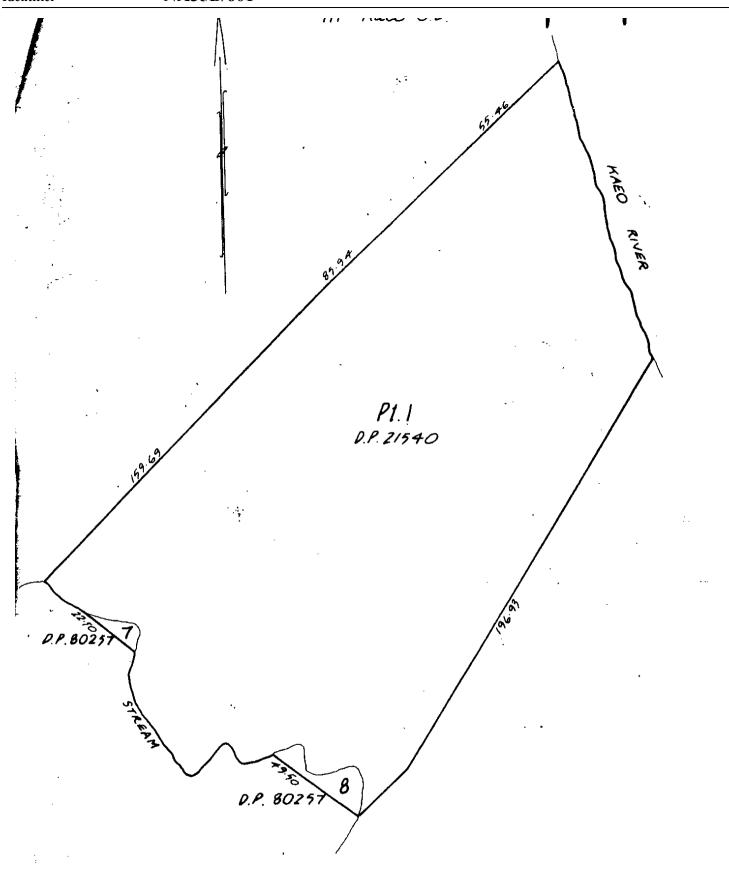
Allotment 1 Deposited Plan 21540

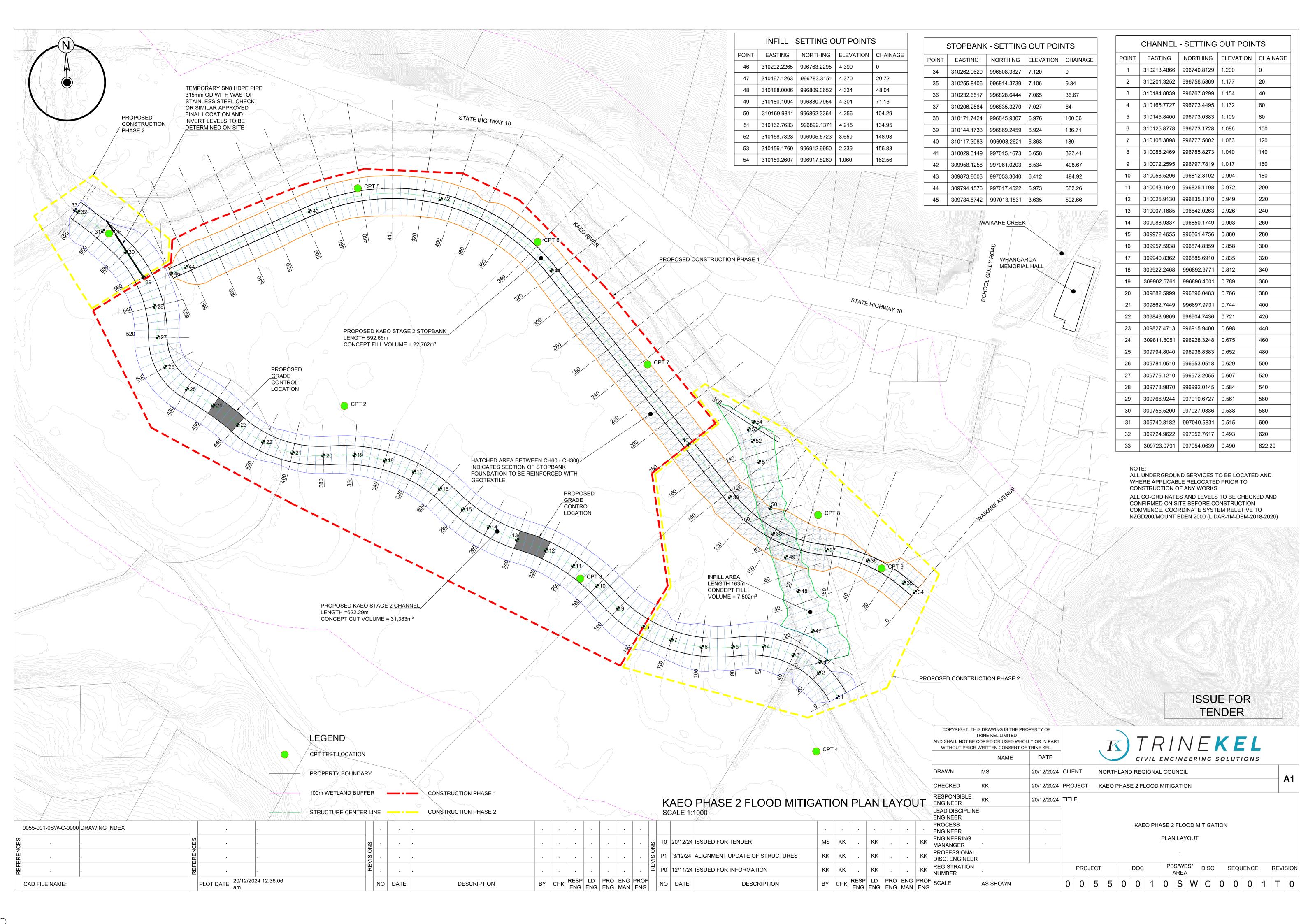
Registered Owners

Leslie Kelman Jackson and Jeanette Yvonne Jackson

Interests

9356749.1 Notice pursuant to Section 23 Public Works Act 1981 - 3.4.2013 at 7:00 am Subject to a right (in gross) to flood (flow path) over part marked O, P and Q on SO 459897 in favour of Northland Regional Council created by Easement Instrument 9482600.1 - 31.10.2013 at 9:35 am





GENERAL NOTES:

ALL UNDERGROUND SERVICES TO BE LOCATED AND WHERE APPLICABLE RELOCATED PRIOR TO CONSTRUCTION OF ANY WORKS.

ALL WORKS SHALL COMPLY WITH:

- NORTHLAND REGIONAL PLAN

ALL TEMPORARY WORKS IS THE RESPONSIBILITY OF THE MAIN CONTRACTOR.

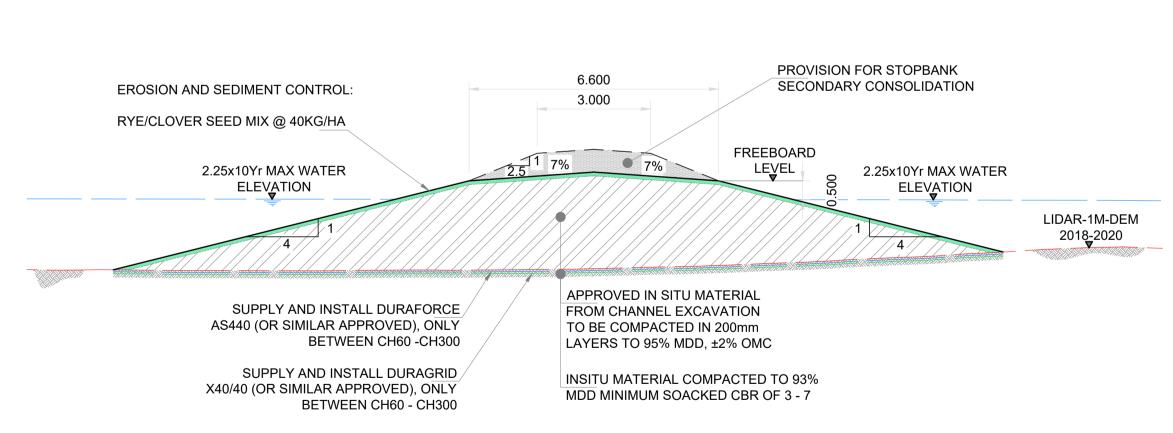
TEST ALL EARTH-FILLS OTHER THAN THOSE SPECIFICALLY IDENTIFIED AS UNCONTROLLED FILL IN ACCORDANCE WITH NZS4431 USING STANDARD TESTING PROCEDURES AS SET OUT IN NZS 4402.

TAKE ALL NECESSARY MEASURES TO PREVENT EXCESSIVE WATER-LOGGING OF SURFACE MATERIALS YET TO BE EXCAVATED OR COMPACTED OR BOTH, AND TO PREVENT FILL MATERIAL FROM BEING ERODED AND RE-DEPOSITED AT LOWER LEVELS.

CONSTRUCT ALL EXCAVATION IN SUCH A MANNER THAT THE SURFACE IS FREE DRAINING OVER THE ENTIRE AREA. NO WATER TO POND ON ANY COMPLETED SURFACE.

WHERE MATERIAL IS TO BE CARTED OFF SITE BY PUBLIC ROAD, IT WILL BE IDENTIFIED AS CUT TO WASTE FOR OFF-SITE DISPOSAL. CARRY OUT ALL ASPECTS OF THE OFF SITE DISPOSAL, INCLUDING PREPARATION OF AN EARTHWORKS MANAGEMENT PLAN, OBTAINING ANY NECESSARY LAND USE CONSENTS AND RESOURCE CONSENTS AND PREPARATION OF AN EROSION AND SEDIMENT CONTROL PLAN WHERE REQUIRED. UNDERTAKE PREPARATORY WORK AND SITE CLOSURE AT THE DISPOSAL SITE.

TESTING TO NZS 4407:2015 TEST 4.2 (NDM BACKSCATTER) TEST FREQUENCY SHALL BE ONE TEST PER 1000M3 AND NOT LESS THAN LIFTS OF BETWEEN 0.6M AND 1.0M DEPTH OF FILL PLACED, WITH THE ADDITIONAL CRITERIA THAT THE FIRST 1000M3 OF FILL PLACED SHALL HAVE 3 SETS OF TESTS AND ALL FILL SHALL HAVE A MINIMUM OF 5 SETS OF TESTS. AS WELL AS ACCOMPLISHING THE MINIMUM STANDARD OF COMPACTION AS SET OUT ABOVE, THE CONTRACTOR MUST ENSURE THAT THE FILL IS NOT OVER-COMPACTED TO THE EXTENT THAT WEAVING OF THE FILL IS PRODUCED.

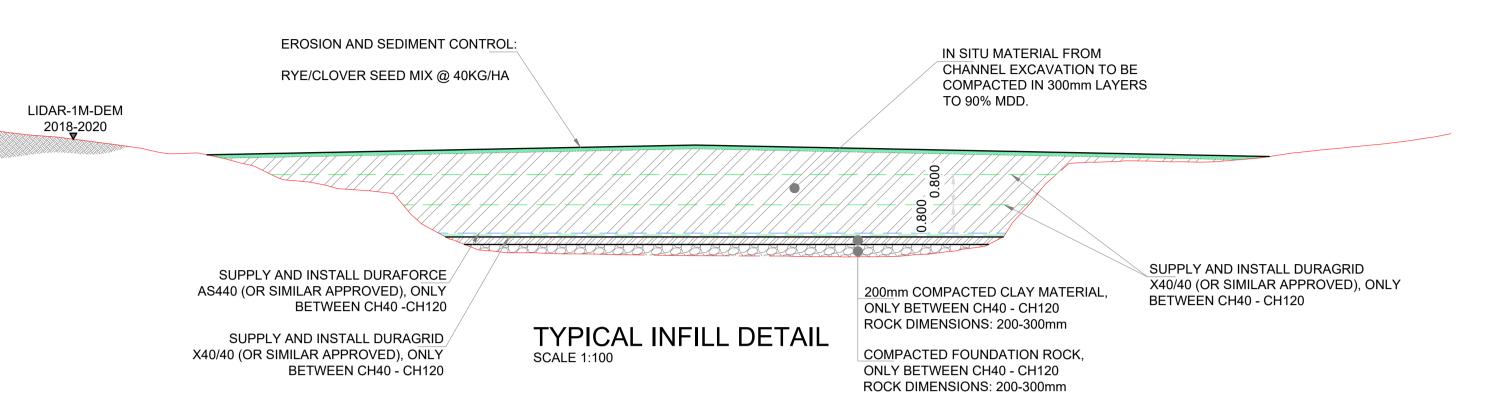


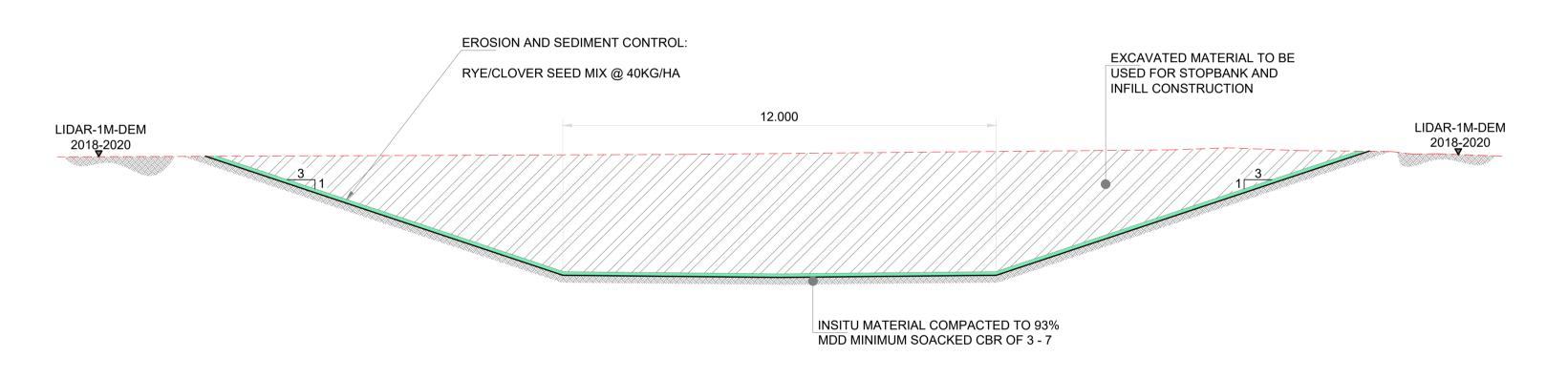
TYPICAL STOPBANK DETAIL

NO DATE

DESCRIPTION

PLOT DATE: 20/12/2024 2:11:16 am





TYPICAL CHANNEL DETAIL
SCALE 1:100

ISSUE FOR TENDER

K) TRINEKEL

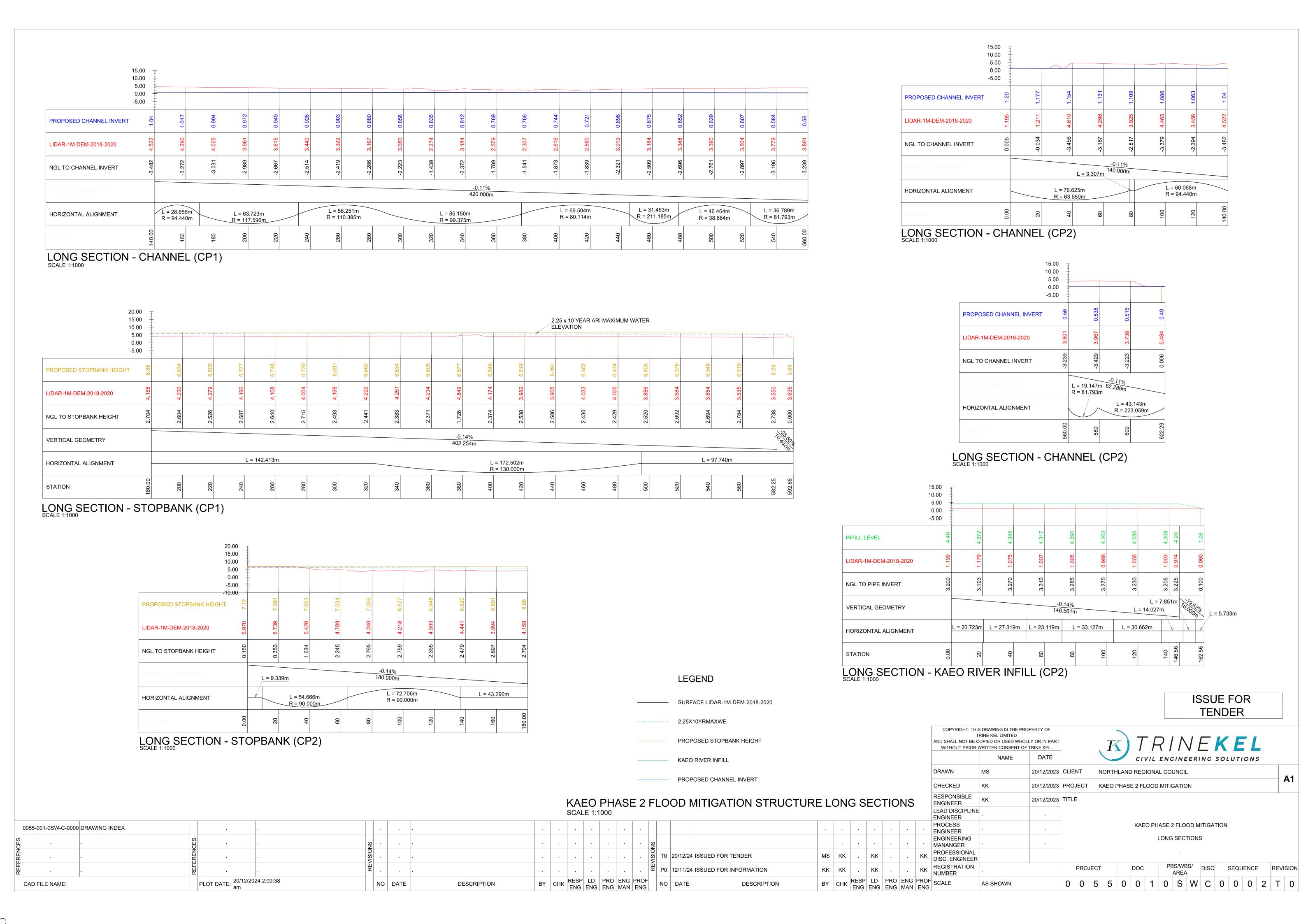
| | NAME DATE CIVIL ENGINEERING SOLUTIONS |
|---|---|
| | DRAWN MS 20/12/2024 CLIENT NORTHLAND REGIONAL COUNCIL |
| | CHECKED KK 20/12/2024 PROJECT KAEO PHASE 2 FLOOD MITIGATION |
| KAEO PHASE 2 FLOOD MITIGATION STRUCTURE DETAILS & NOTES | RESPONSIBLE ENGINEER KK 20/12/2024 TITLE: |
| SCALE 1:1000 | LEAD DISCIPLINE |
| | PROCESS KAEO PHASE 2 FLOOD MITIGATION ENGINEER |
| | ENGINEERING DETAILS & NOTES MANANGER |
| | PROFESSIONAL DISC. ENGINEER |
| | REGISTRATION PROJECT DOC PBS/WBS/ DISC SEQUENCE REVISION AREA |
| BY CHK RESP LD PRO ENG PROF NO DATE DESCRIPTION BY CHK RESP LD PRO ENG PROF NAM ENG | SCALE AS SHOWN 0 0 5 5 0 0 1 0 S W C 0 0 3 T 0 |

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CAD FILE NAME:

0055-001-0SW-C-0000 DRAWING INDEX



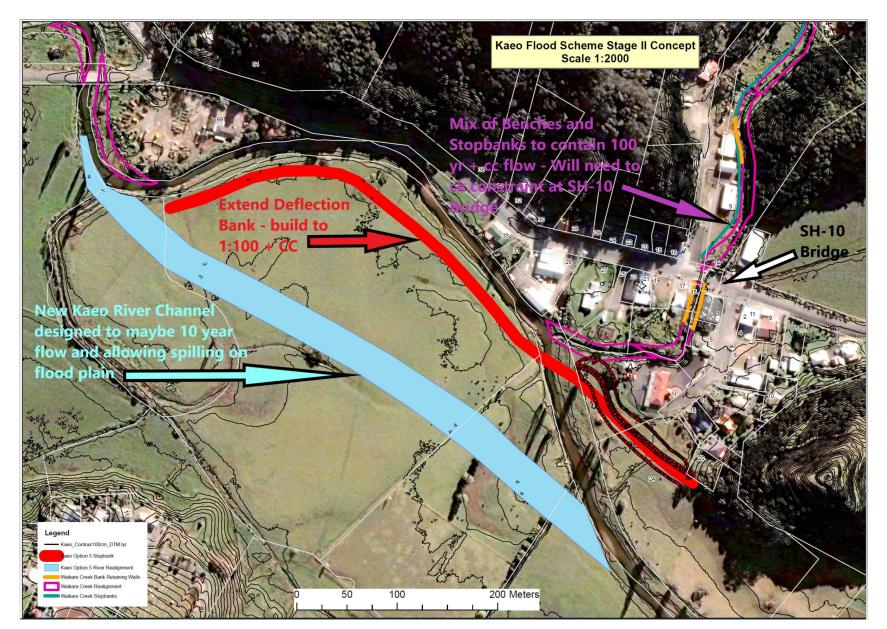
Kaeo 2D model

Prepared by : Sher Khan

Date: 06 March 2024.

Kaeo Stage-2 Works Assessment

Work Brief provided by NRC



Model Runs

- □ Status Quo Model: A simple 2D model was run with an approximate flow equivalent to a 10-year ARI flow derived from the regionwide model at Kaeo Fire Station (River+floodplain flow for 10yr12hr=384 m³/s).
- ☐ Scheme Design Model: Similar setup as the above model with the following changes:
 - Adding a new channel starting from opposite of Kaeo Settler Cemetery and ending at upstream of the Omaunu Rd Bridge.
 - Adding a stop bank along the existing Kaeo river on the left bank.

Note: The model set-up is aimed at investigating the relative effects of shifting the natural confluence of the Waikare Creek and the Kaeo river further downstream close to the Omaunu Road Bridge. It was envisioned that shifting the confluence downstream will reduce the backwater effects into the Creek reducing flooding at and around the SH10 bridge in Kaeo.

The model objective is to find the relative difference in the flow/levels at the Omaunu Rd bridge and SH10 Bridge.

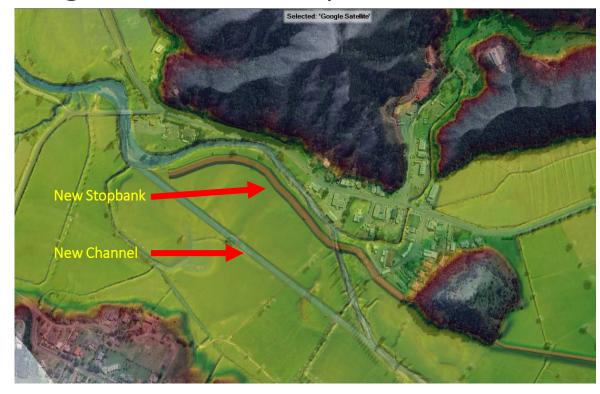
Model may need further improvements if we want to use it for any design purpose.

Model Set-up

Status Quo Model Set-up

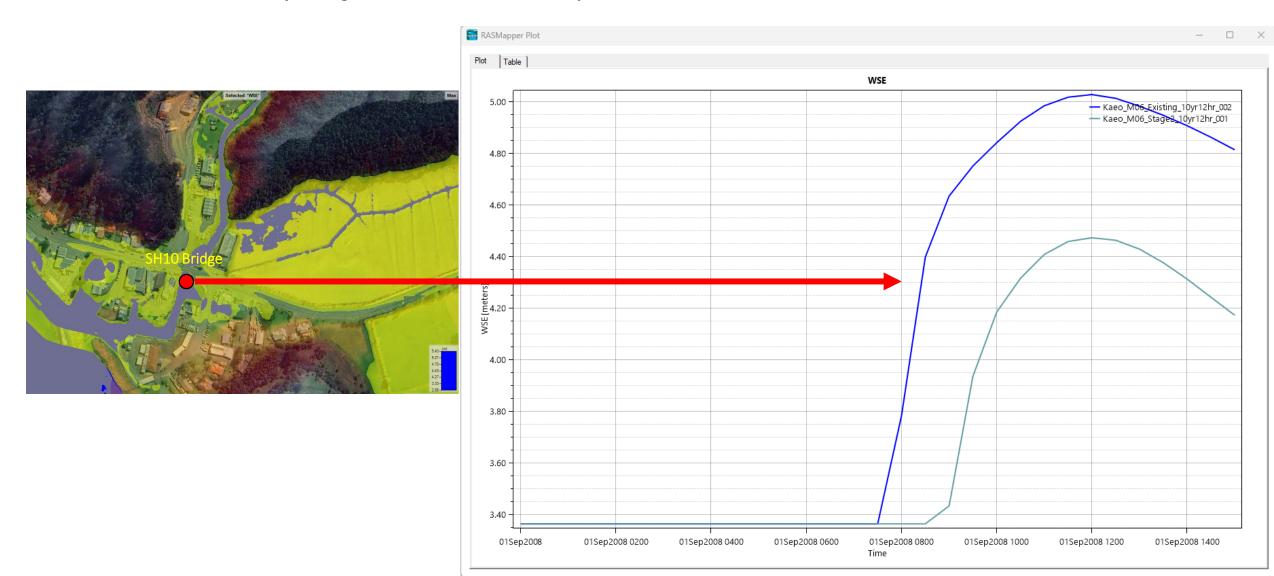


Stage-2 Model Set-up



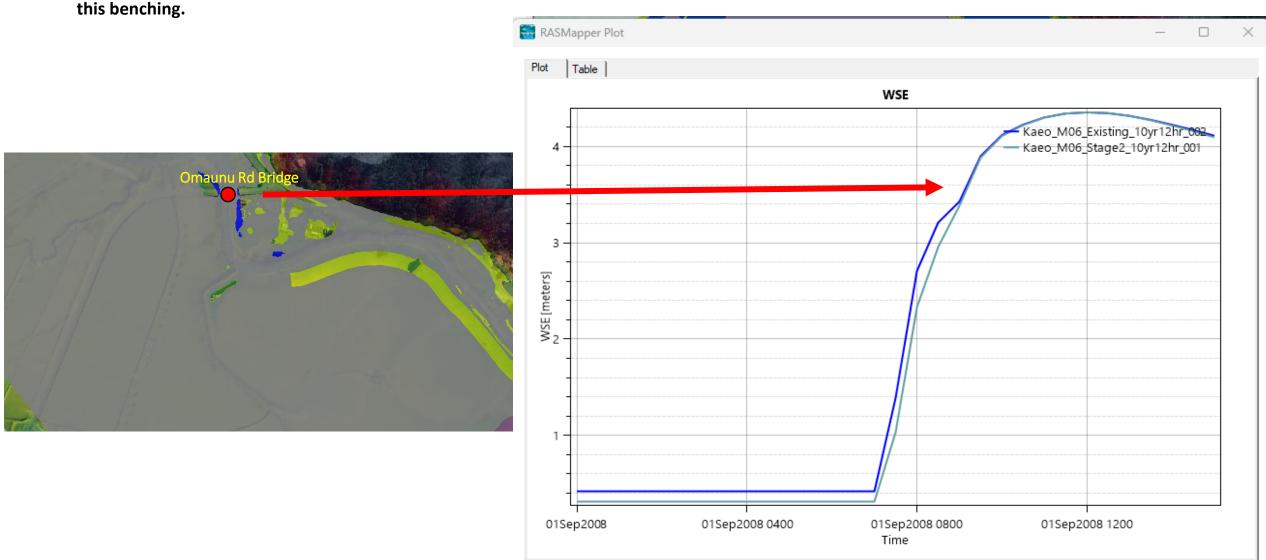
Comparison of Levels under the SH10 Bridge

The levels under the SH10 bridge are reduced by 560mm (about 0.5m) due to the proposed stage-2 works. This means that shifting the confluence downstream by adding a new channel and a new stopbank reduces the backwater effects on the stream.

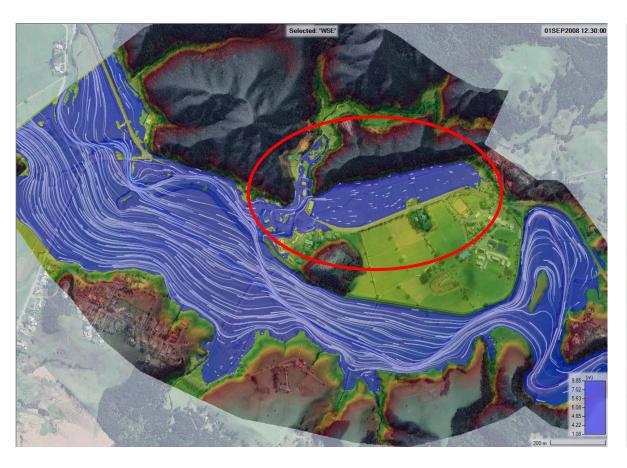


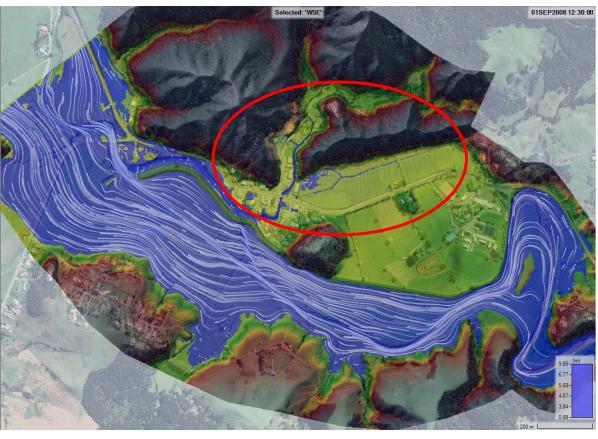
Comparison of Levels under the Omaunu Rd Bridge Bridge

The proposed Stage-2 works do not impact the levels under the Omaunu Rd Bridge bridge. Small benching upstream and downstream of the bridge that is included in this model could be a reason for this. Additional flow due to the floodplain storage loss may be compensated by



Status Quo Model(LHS) and Stage-2 Model (RHS)





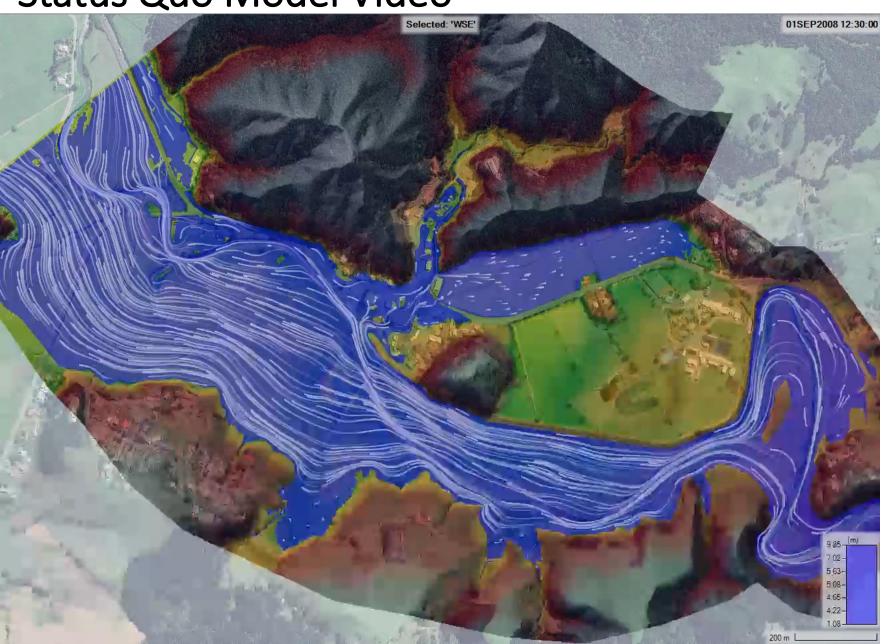
Remarks

- ☐ Shifting the confluence of the Kaeo River and the Waikare Creek downstream close to the Omaunu Road Bridge reduces the backwater into the creek and reduces flood impact on the buildings.
- ☐ The levels at the SH10 bridge could reduce by 560mm with stage-2 works.
- ☐ The paddock behind the Whangaroa Memorial Hall could be used as an additional storage

Model Assumptions

- ☐ The model has an inflow boundary with 384m³/s flow (10yr12hr). This is derived from the from the regionwide model.
- ☐ An outflow boundary is set as normal depth.
- ☐ No tidal effects are included in the model.
- ☐ The model set-up only includes inflows along the Kaeo river and the stream inflows are not included in this model.

Status Quo Model Video



Stage-2 Model Video

