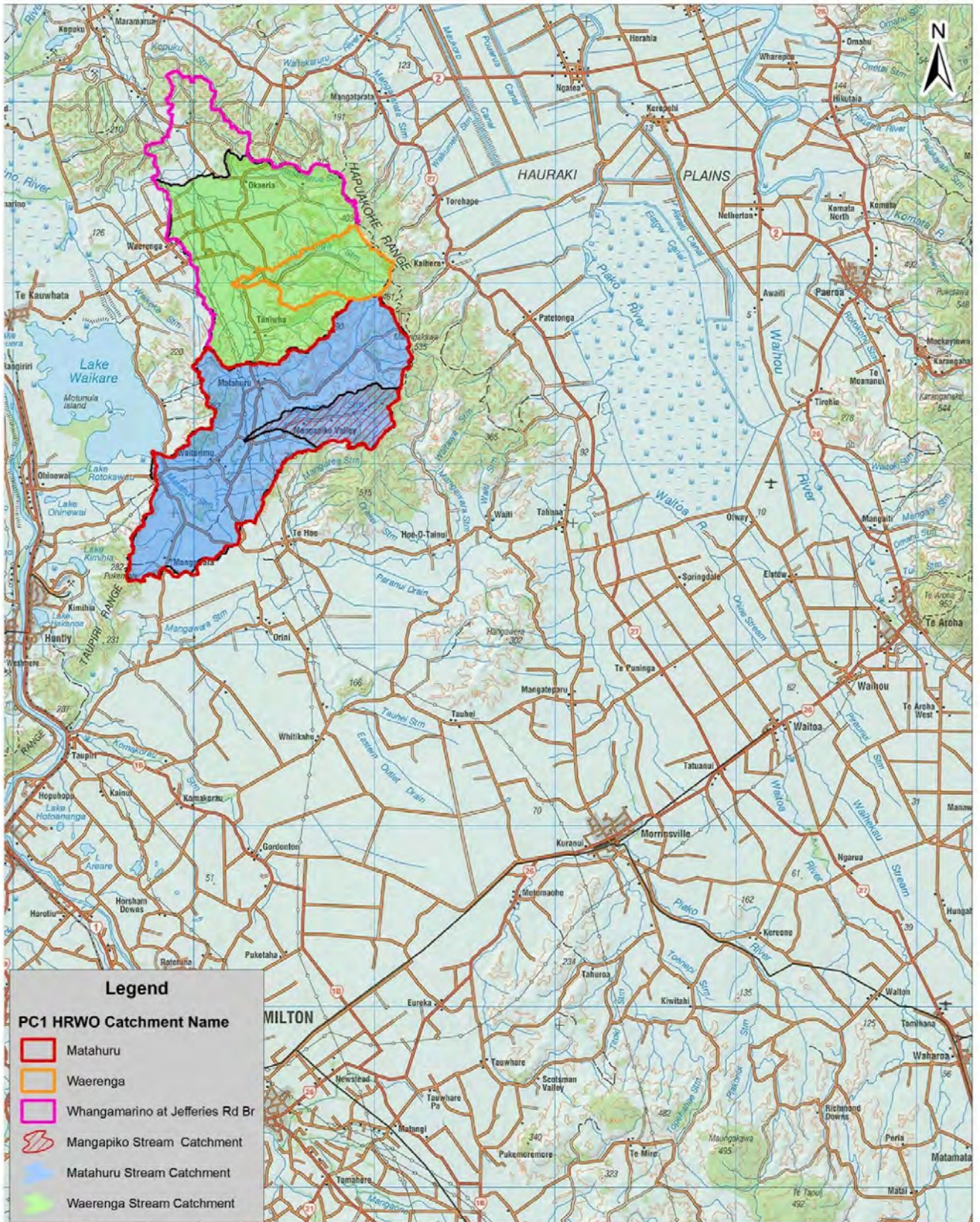


Hill Country Farmers Group (HCFG) Water Report



Legend

PC1 HRWO Catchment Name

- Matahuru
- Waerenga
- Whangamarino at Jefferies Rd Br
- Mangapiko Stream Catchment
- Matahuru Stream Catchment
- Waerenga Stream Catchment

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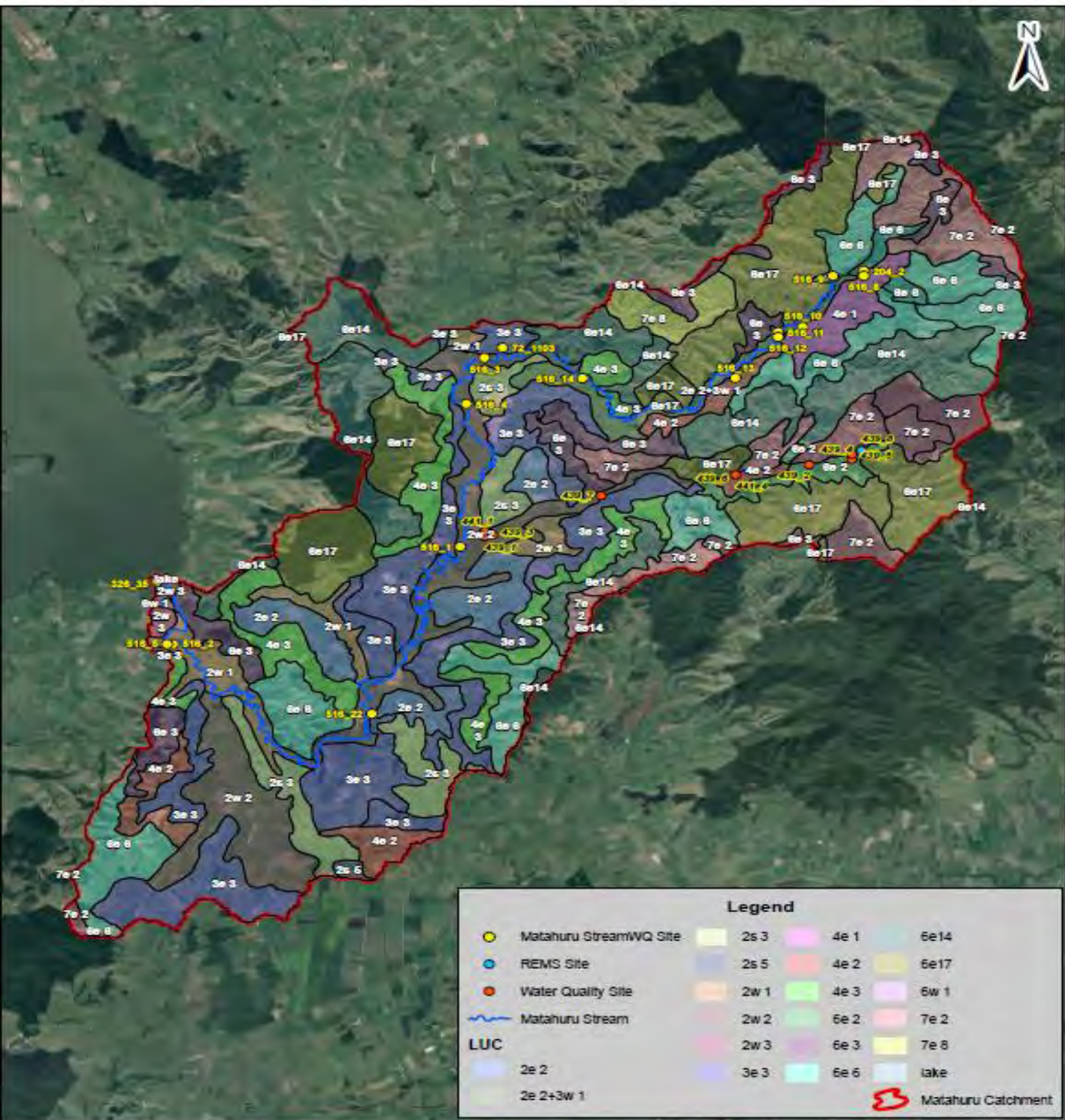
Catchment Locations



Created by: HCE
 Date: 8/02/2019
 Version: 1
 Job No.: REQ140386
 File: REQ140386_Hill Country Farmers Mapping



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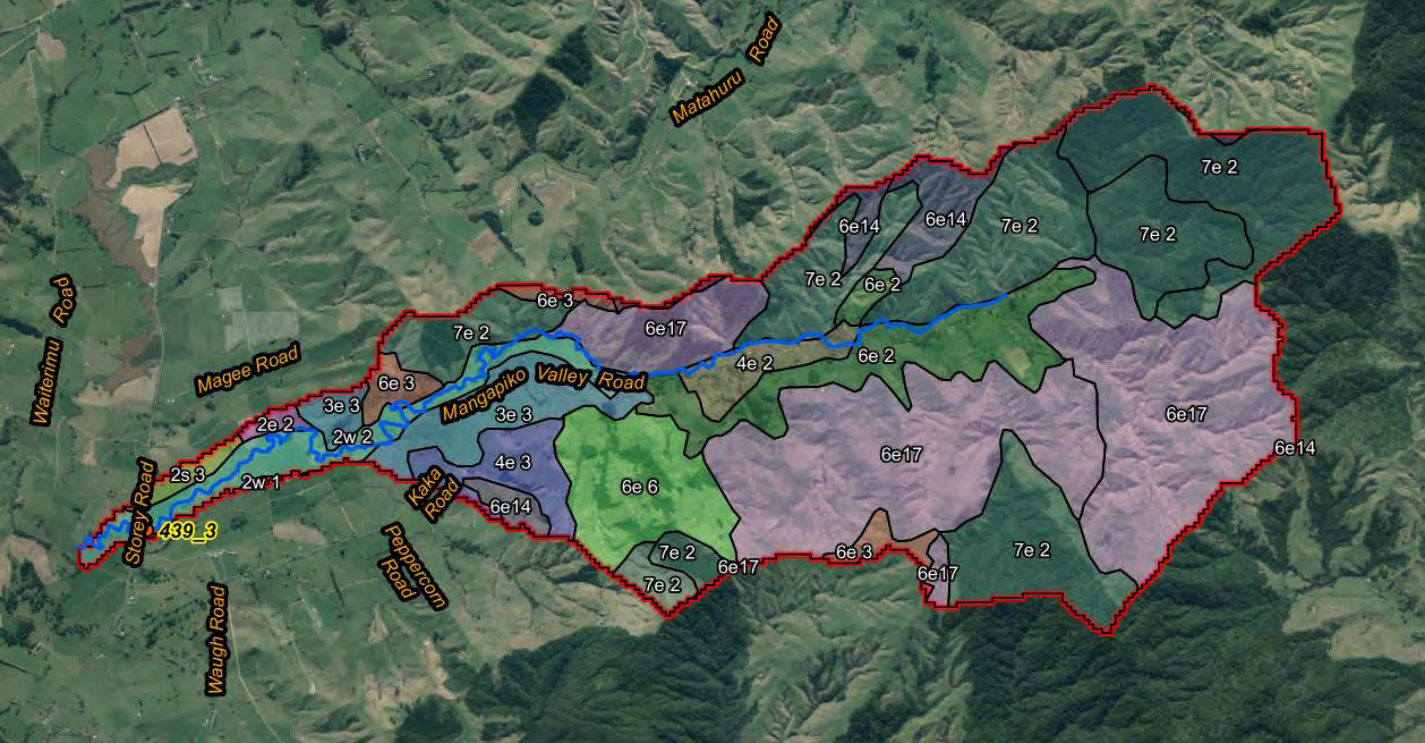
Land Resource Inventory (LRI) Data reproduced with the permission of Landcare Research New Zealand Limited.

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Matahuru Stream Catchment



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 File: REQ140388_Hill Country Farmers Mapping

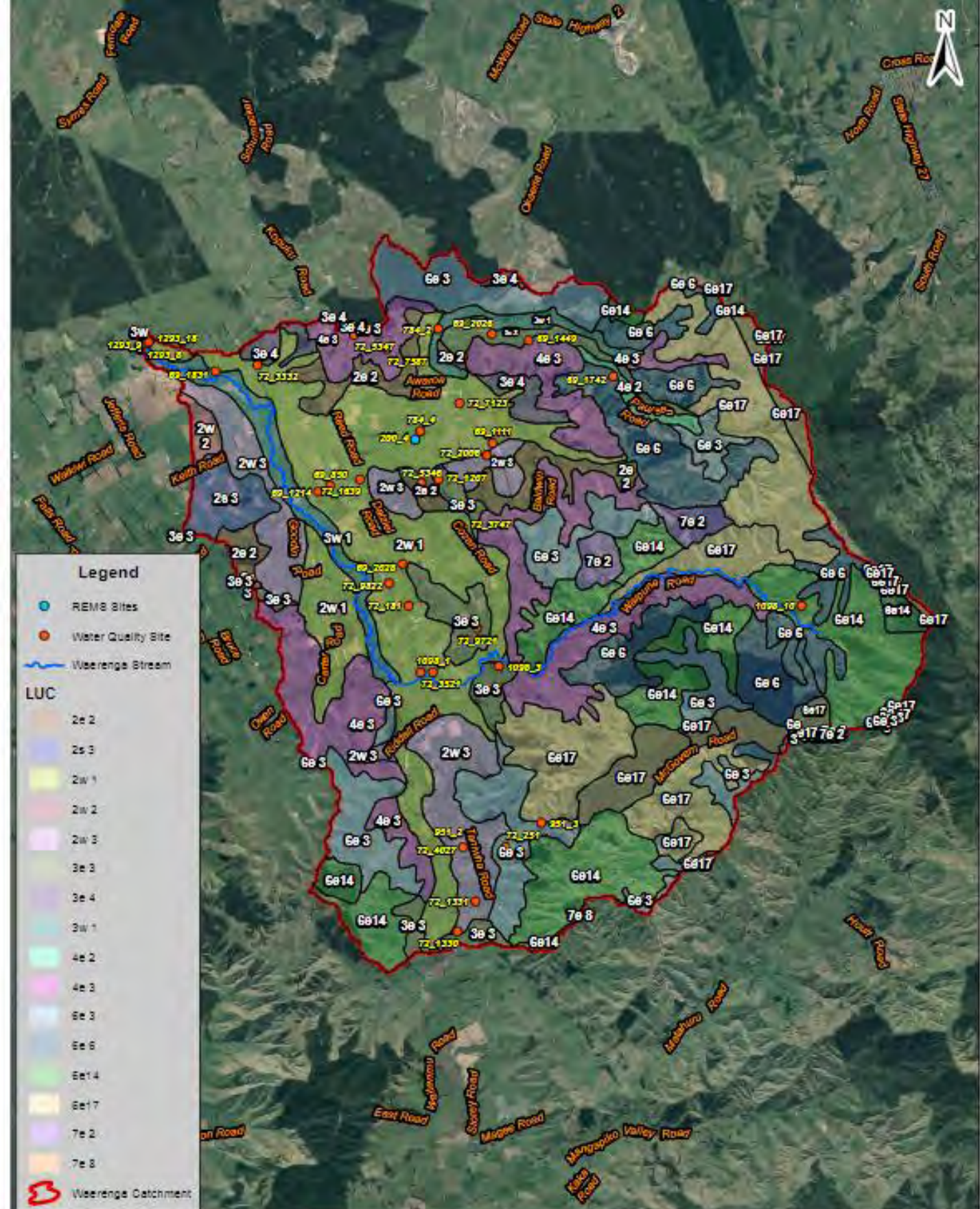




439_3 37.46177, 175.29906

Storey Rd

Mangapiko Valley Rd



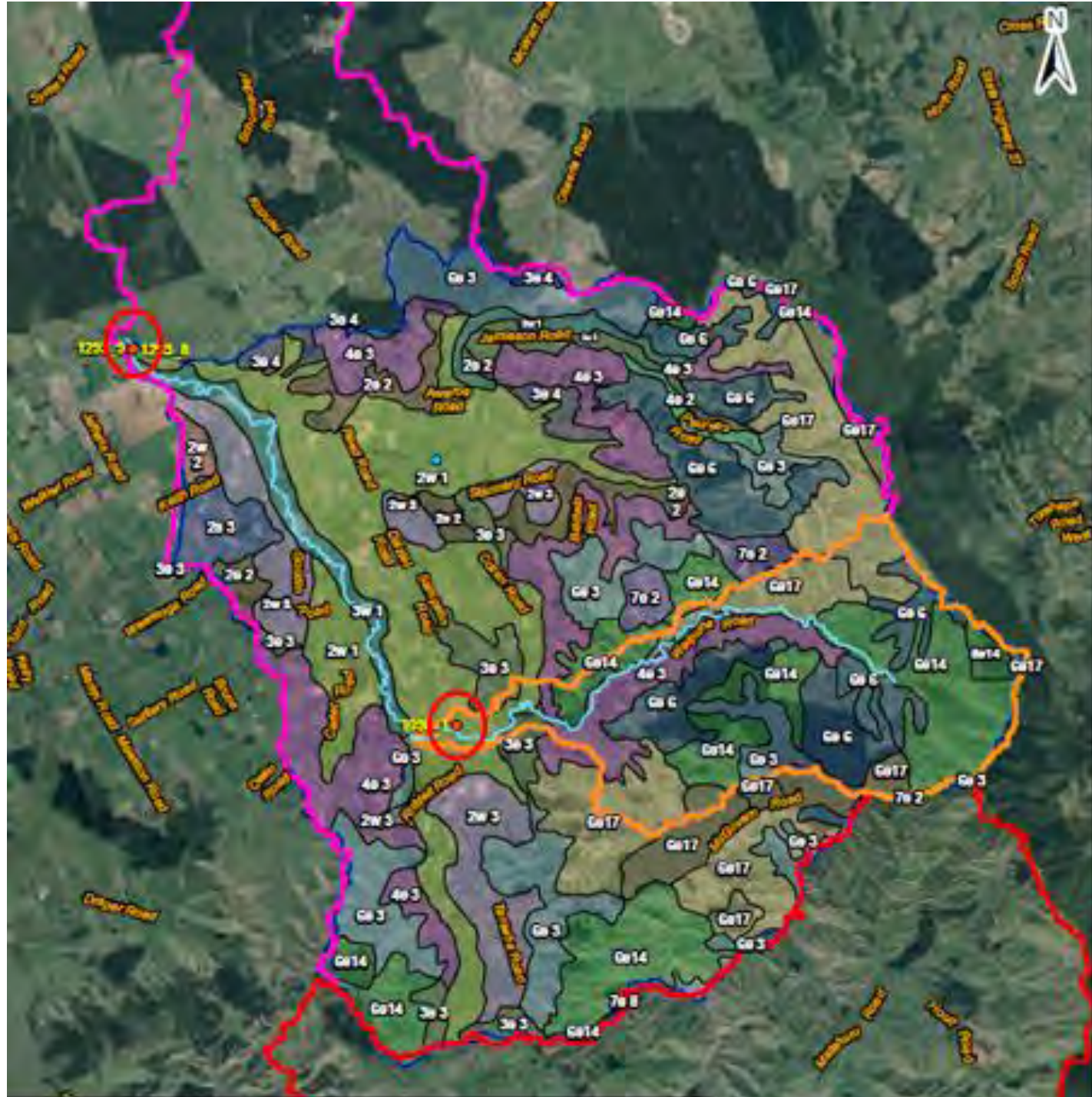
Waerenga Stream Catchment



Scale at A3
= 1:60,000

Created by: HCE
Date: 5/11/2015
Version: 1





Legend

- REMD Site
 - Water Quality Site
 - Waerenga Stream
 - PC1 HRWD Catchment Name**
 - Matahuru
 - Waerenga
 - Whangamano at Jermies Rd Br
- | | | |
|------------|------|---------------------------|
| LUC | 3e 3 | 6e 6 |
| 2e 2 | 3e 4 | 6e 14 |
| 2e 3 | 3e 1 | 6e 17 |
| 2w 1 | 4e 2 | 7e 2 |
| 2w 2 | 4e 3 | 7e 8 |
| 2w 3 | 6e 3 | Waerenga Stream Catchment |

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Waerenga Stream Catchment

0 1 2 3 km

Scale at A3
= 1:50,000

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 Date: 13/02/2019
 Version: 1
 Job No.: RRC140366
 File: RRC140366_WQI Quality Farmers Mapping

Waikato
REGIONAL COUNCIL
100 Auckland St, P.O. Box 100, Hamilton



Figure 9 Whangamanga at Jefferies Road Bridge sampling locations, 1293_8 and 1293_9

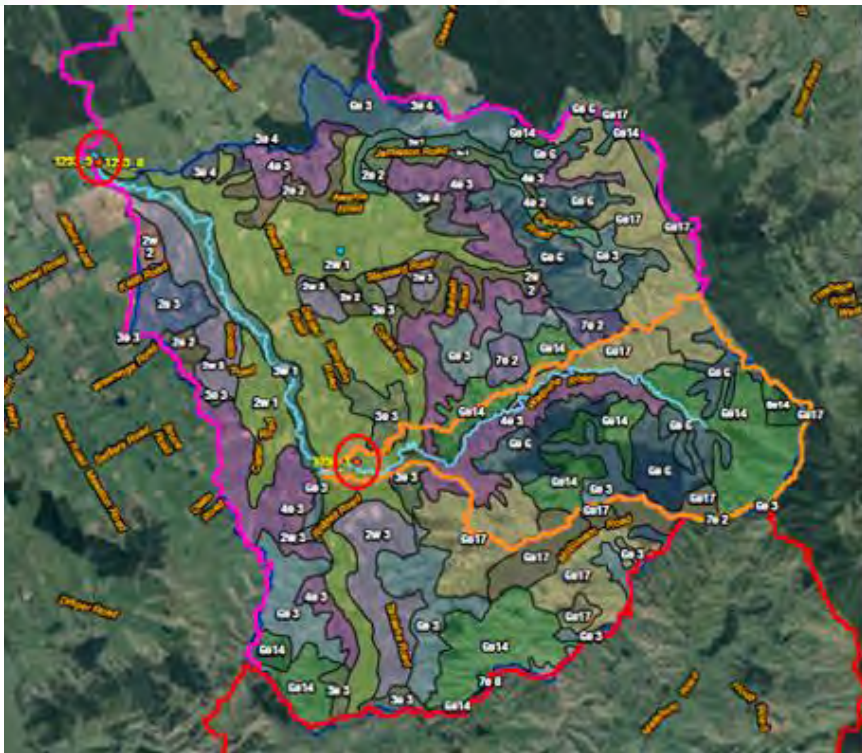


Figure 8 Taniwha Road sampling location, sample reference 1098_1



Photograph 1 Numerous Koi Carp visible in stream in close proximity to Taniwha Road sampling location, 1098 1



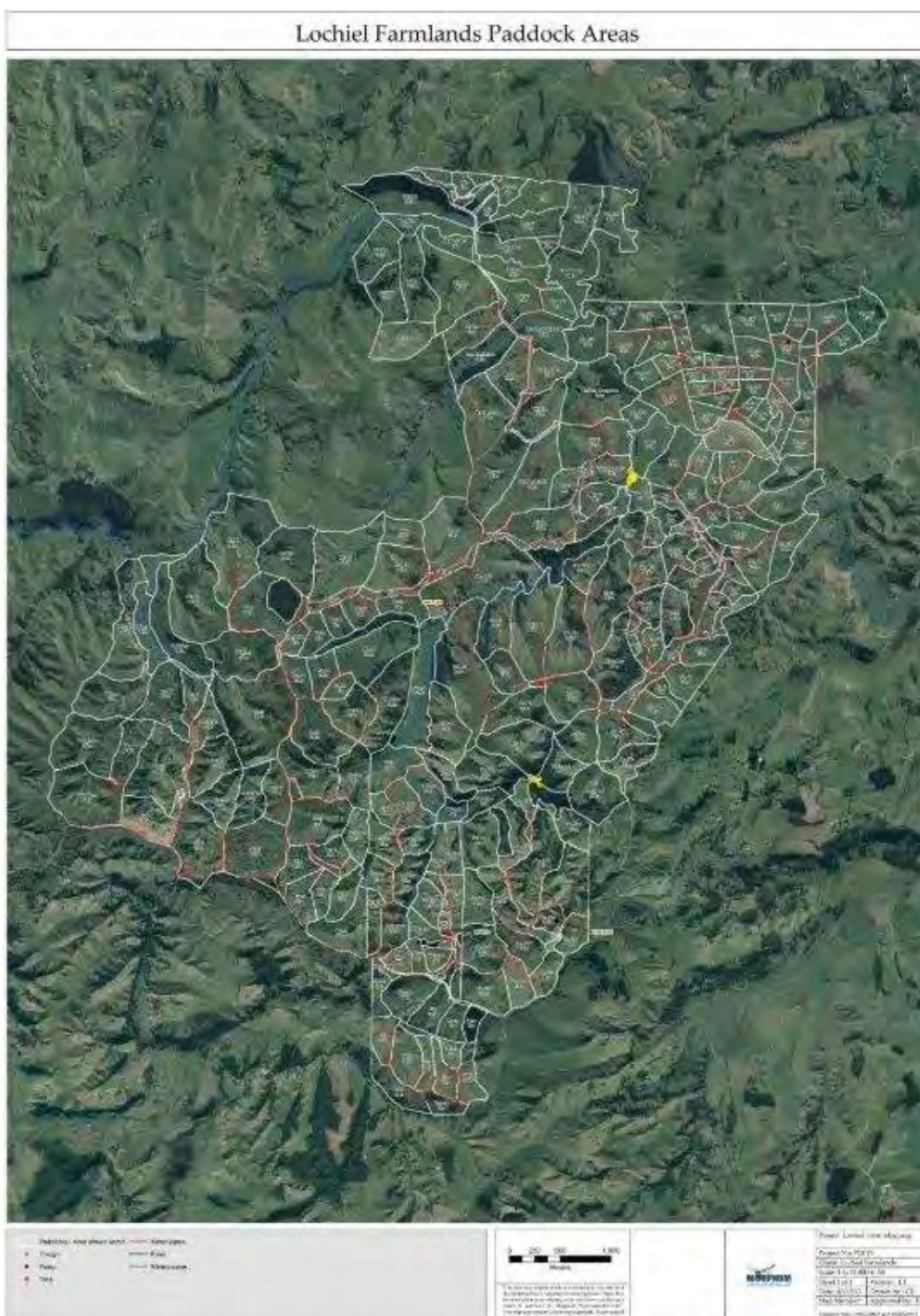
Photograph 2 Stream bank slumping reported by landowner to be caused by Koi Carp eroding the sediment beneath



Photograph 3 Severely eroded stream bank location in relation to existing fence

Hill Country Farm Data

- Water quality data available specific to Hill Country systems is limited.
- Lochiel Station data, while only preliminary, does indicate that Nitrogen and Phosphorous discharges are minimal.
- The data available for this farm does not justify the high compliance costs being imposed.



Conclusions

- Available water quality monitoring data does not seem to justify the compliance costs being imposed upon the Hill Country sector (costs discussed elsewhere in HCFG presentation).
- Likely financial impacts under the currently proposed provisions in PC1 are not sustainable for hill country farmers or their communities and outcome does not align with the intention of the Vision and Strategy.
- The members of the HCFG are committed to improving water quality in a sustainable way, relative to their contribution to water quality issues.

Recommendations

Now:

- Revise rules within the plan to ensure that they are fair and reasonable, will achieve the desired outcome and that they give effect to the intention of the Vision and Strategy.

Going forward:

- Educate and engage Hill Country farmers in water quality monitoring on their farms and use this data!
 - This will enable informed decisions for both on farm mitigations (cost:benefit) and at a policy level
- Utilise on farm knowledge to develop a 'Toolbox of solutions' for on farm and catchment wide scenarios.
- Enable flexibility in approach – over regulation stifles innovation.