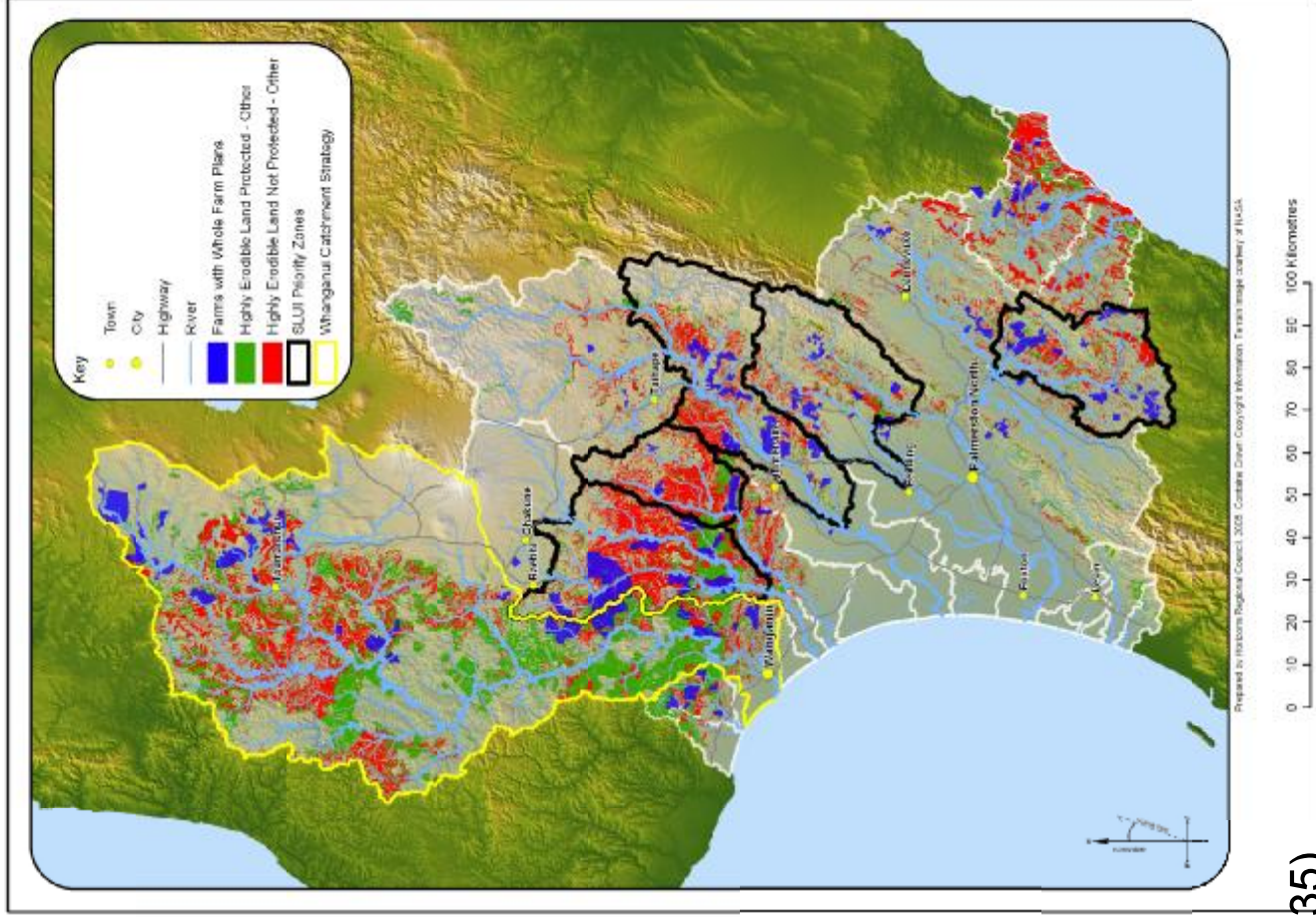




# Locations of completed whole farm plans\*

| Totals Region (ha)          | Protected | Not protected | Total  |
|-----------------------------|-----------|---------------|--------|
| Simplified minus DOC,DF,QE2 | 197724    | 263601        | 461324 |
| Completed in PZ             | 3997      | 13493         | 17490  |
| Completed in WCS            | 5688      | 6722          | 12410  |
| Completed other             | 1930      | 6977          | 8907   |
| Total Completed (ha)        | 11614     | 27193         | 38807  |
| %age of regions HEL         | 5.9%      | 10.3%         | 8.4%   |

\*Information as supplied by implementation team

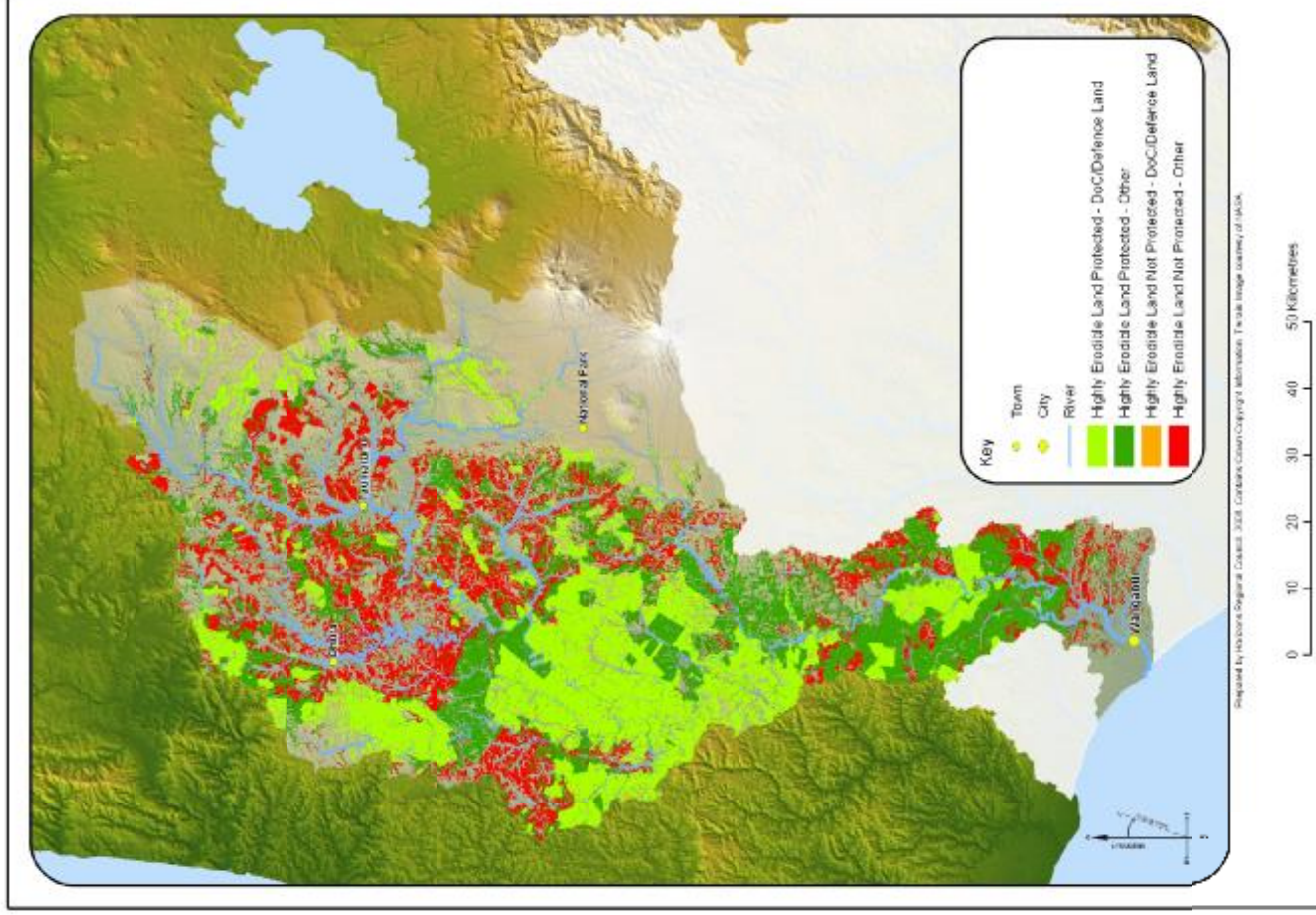
# Amendment to Whanganui Catchment Map

This is an amendment to the  
Whanganui Map shown on  
slide 27.

Please note that the numbers  
remain unchanged for this  
map and it was just a display  
error.

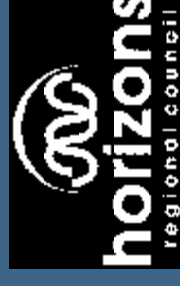


36) as requested

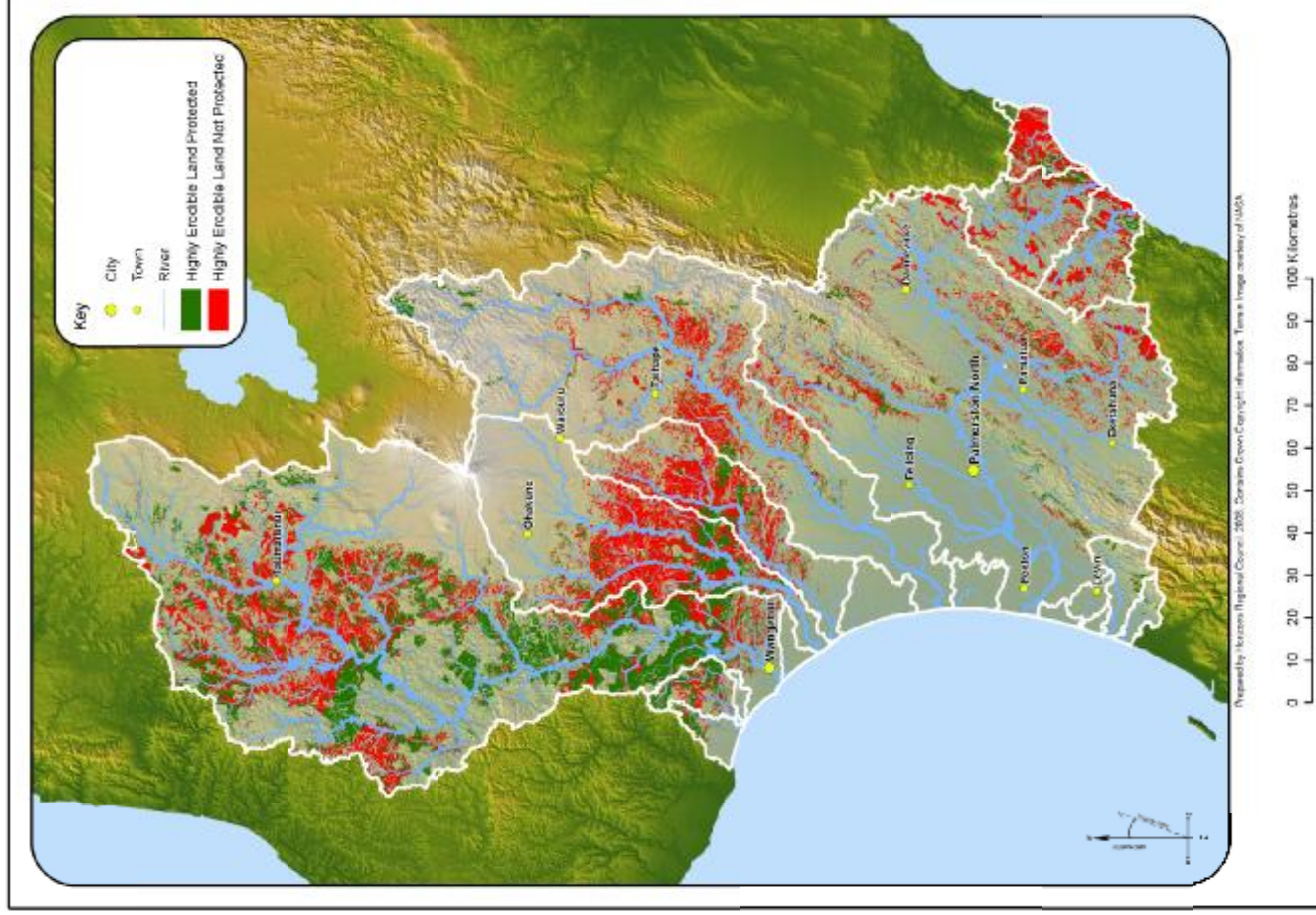


# Simplified Map

- The map is a simplified version of the Dymond and Sheppard map with the DoC and DF land removed
- Asked to account for QE2 and Ngawhenua Rahui
- QE2 layer is available and shown on next slide.
- For Ngawhenua Rahui it is noted that the covenants are generally for 25 years. Horizons do not have a spatial layer of these covenants.



37) as requested



- 
- Key**
- City
  - Town
  - River
  - Highly Erodible Land Protected
  - Highly Erodible Land Not Protected
- 0 10 20 30 40 50 60 70 80 90 100 Kilometres
- Prepared by: Northern Regional Council: 2008. Sources: GeoSOS Copyright information: Terms & Image: courtesy of NASA.

**Key**

- City
- Town
- River
- Highly Erodible Land Protected
- Highly Erodible Land Not Protected

0 10 20 30 40 50 60 70 80 90 100 Kilometres

Prepared by: Northern Regional Council: 2008. Sources: Geo-Data Copyright information: Terms & Image: courtesy of NASA.

**Key**

- City
- Town
- River
- Highly Erodible Land Protected
- Highly Erodible Land Not Protected

0 10 20 30 40 50 60 70 80 90 100 Kilometres

Prepared by: Northern Regional Council: 2008. Sources: Geo-Data Copyright information: Terms & Image: courtesy of NASA.

**Key**

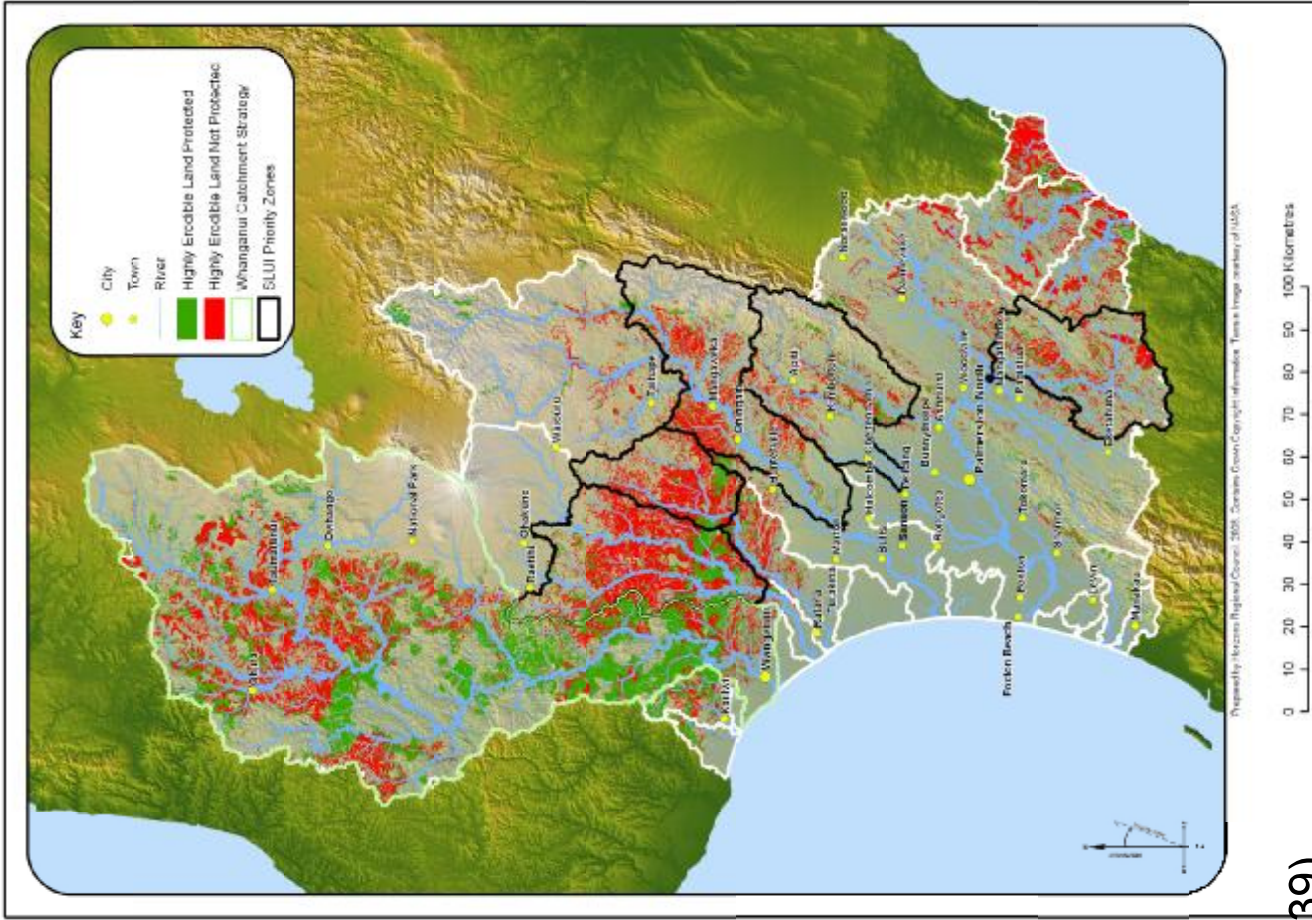
- City
- Town
- River
- Highly Erodible Land Protected
- Highly Erodible Land Not Protected

0 10 20 30 40 50 60 70 80 90 100 Kilometres

Prepared by: Northern Regional Council: 2008. Sources: Geo-Data Copyright information: Terms & Image: courtesy of NASA.

# Simplified Map with the DoC, DF and QE2 removed showing Priority Zones (PZ) & Whanganui Catchment Strategy (WCS)

| Totals for region( Ha)       | Protected | Not protected | Total  |
|------------------------------|-----------|---------------|--------|
| Simplified less DoC & DF&QE2 | 197724    | 263601        | 461324 |
| % age of Region              | 8.9%      | 11.9%         | 20.8%  |
| Priority Zones (PZ)          | 29017     | 117114        | 146131 |
| WCS                          | 122098    | 93508         | 215607 |
| Total WCS + PZ)              | 151115    | 210622        | 361738 |
| %age of HEL land             | 76.4%     | 79.9%         | 78.4%  |
| %age of Region               | 6.8%      | 9.5%          | 16.3%  |



# Simplified Tables

| Totals for region(<br>Ha)       | Protected | Not protected | Total  |
|---------------------------------|-----------|---------------|--------|
| Simplified                      | 387901    | 273390        | 661291 |
| DoC + DF +QE2                   | 190177    | 9789          | 199966 |
| Simplified less DoC<br>& DF&QE2 | 197724    | 263601        | 461324 |
| %age of region                  | 8.9%      | 11.9%         | 20.8%  |
| Priority zone 1                 | 4946      | 9160          | 14106  |
| Priority zone 2                 | 4011      | 13558         | 17569  |
| Priority zone 3                 | 7085      | 21245         | 28330  |
| Priority zone 4                 | 7251      | 53556         | 60807  |
| Priority zone 5                 | 5724      | 19594         | 25318  |
| Total Priority Zones            | 29017     | 117114        | 146131 |
| WCS                             | 122098    | 93508         | 215607 |
| Total WCS +PZ                   | 151115    | 210622        | 361738 |
| %age of HEL land                | 76.4%     | 79.9%         | 78.4%  |
| %age of region                  | 6.8%      | 9.5%          | 16.3%  |



# SLUI - Prioritisation

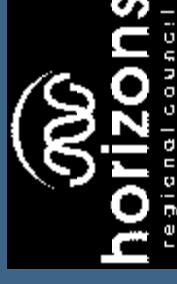
## What are the potential outcomes of SLUI

On Farm outcomes (sustainable development of resources)

- Land Stabilisation
- Retention of soil on farm
- Less damage to infrastructure (e.g. from slips)

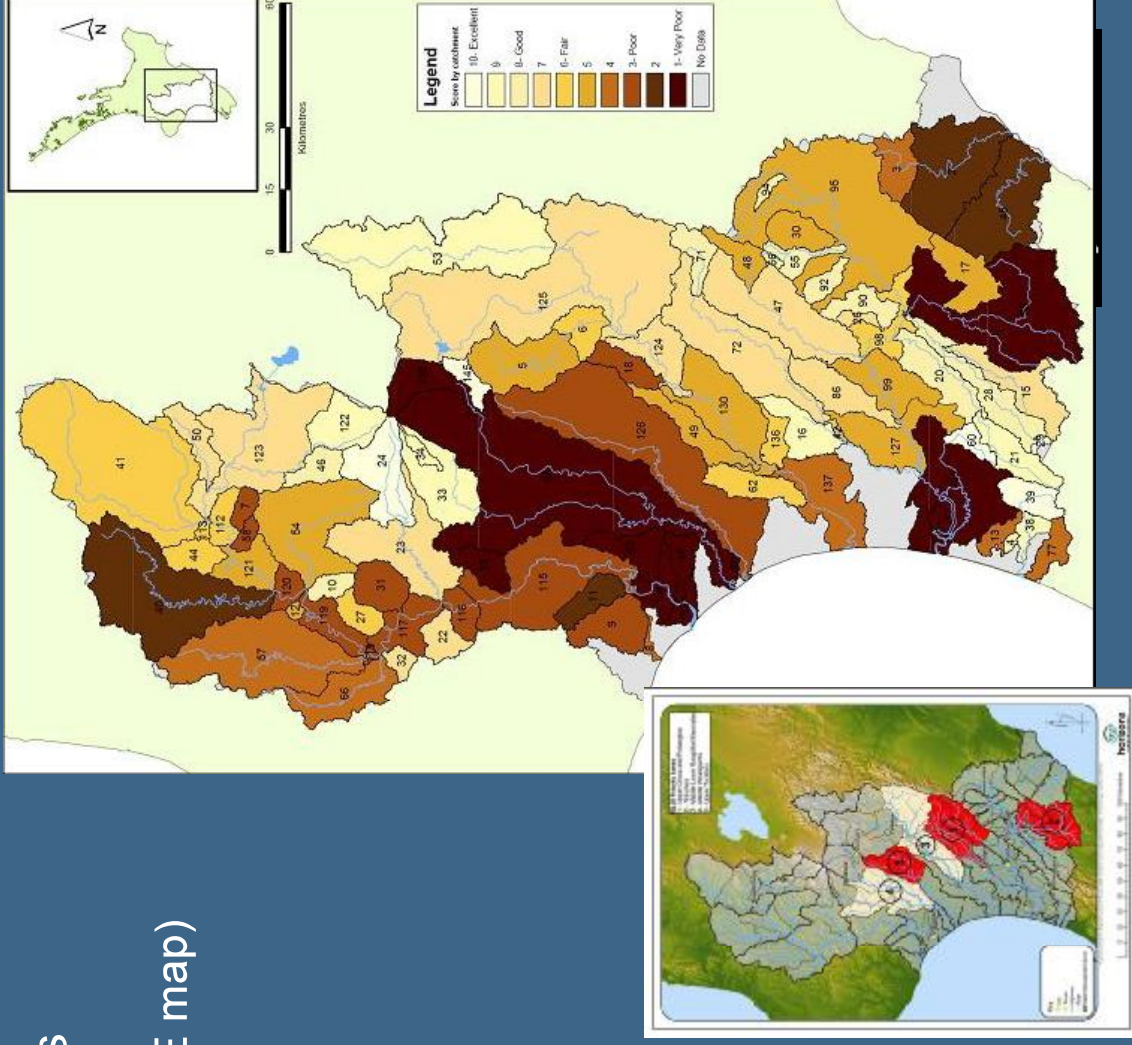
Catchment based outcomes (Off farm effects based)

- All catchments
  - Reduced sediment loading to waterways improved water clarity
- Some catchments
  - Reduced aggradation in waterways/flood plains
  - Reduced phosphorus loading to waterways



# Catchments - with potential turbidity (clarity) outcomes

## SoE map - Turbidity



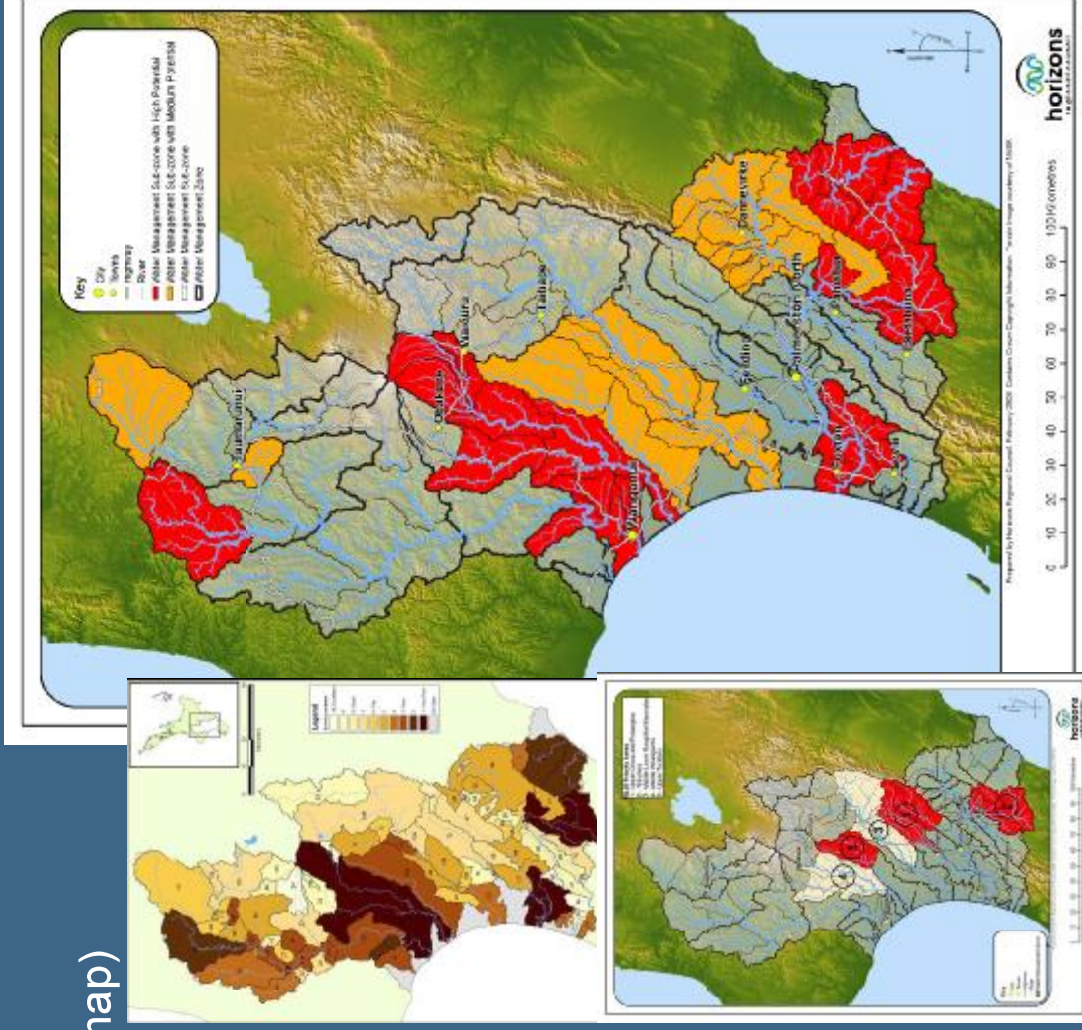
- To some extent all catchments
- high potential areas (from SOE map)
  - Upper Ohura
  - Lower Whanganui
  - Whangaehu
  - Tiraumea
  - Lower Manawatu
  - Owhango
  - Akitio
- medium potential areas
  - Upper Whanganui
  - Turakina
  - Lower Rangitikei
  - Upper Manawatu

# Catchments - with potential turbidity (clarity) outcomes

## SoE map - Turbidity

- To some extent all catchments
- high potential areas (from SOE map)
  - Upper Ohura
  - Lower Whanganui
  - Whangaeahu
  - Tiraumea
  - Lower Manawatu
  - Owhango
  - Akitio

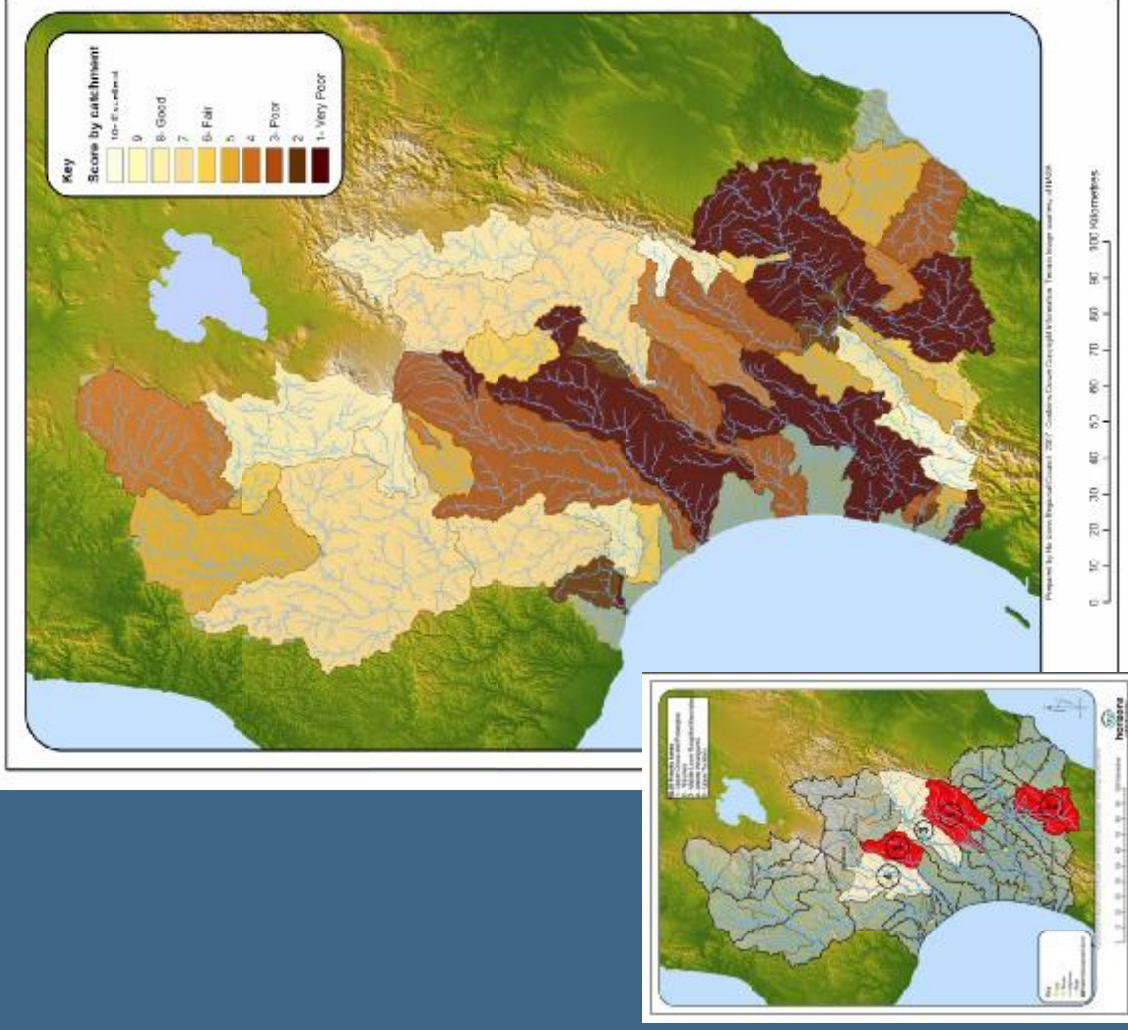
- medium potential areas
  - Upper Whanganui
  - Turakina
  - Lower Rangitikei
  - Upper Manawatu



# Catchments - with potential phosphorus outcomes

## SoE map – Phosphorus (DRP)

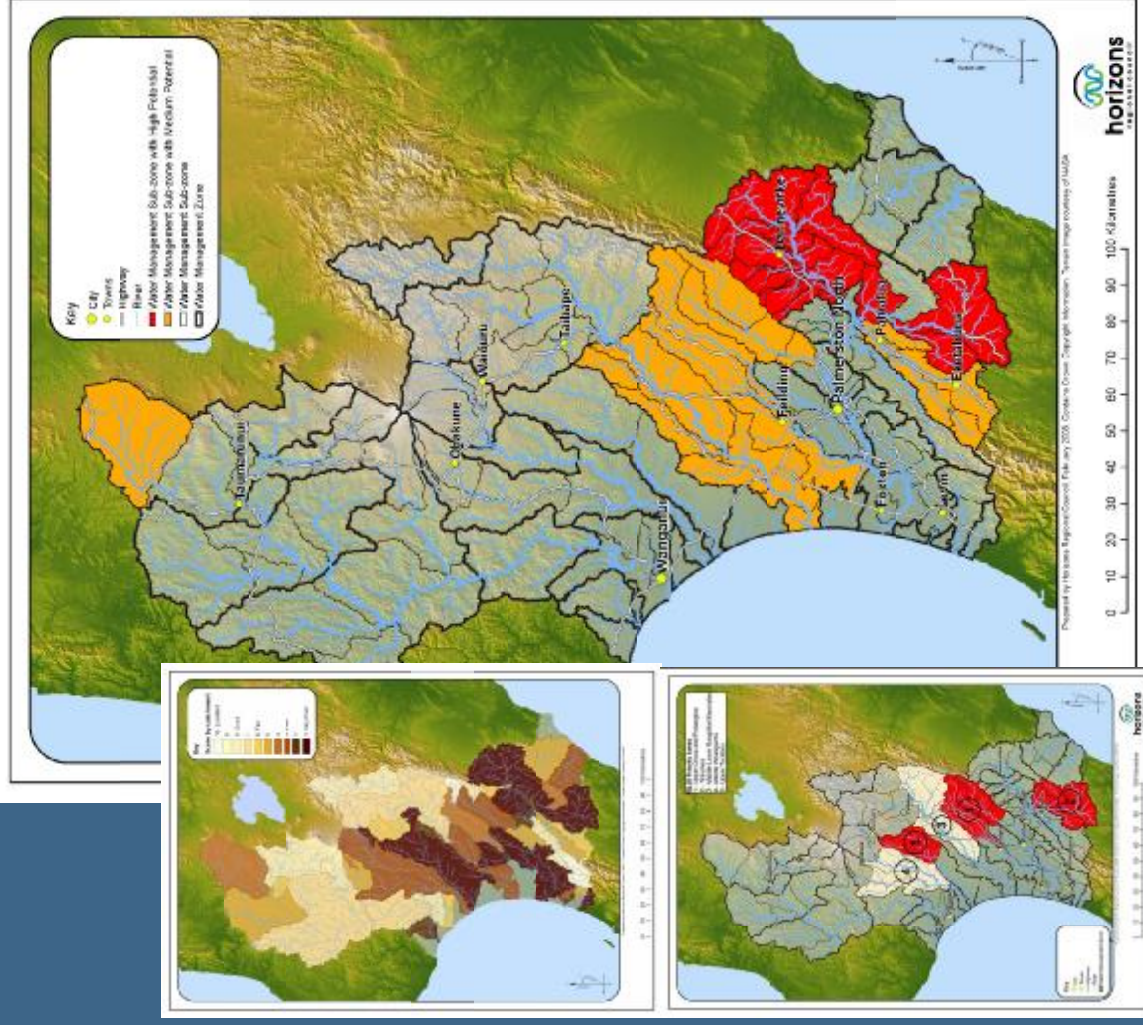
- Manawatu catchment
  - high potential areas
    - Tiraumea
    - Upper Manawatu
  - medium potential areas
    - Oroua
    - Pohangina
    - Mangatainoka
- Rangitikei
  - medium potential areas
    - Lower Rangitikei
- Whanganui
  - medium potential areas
    - Upper Ongarue
- Other Catchments
  - point sources are likely the primary source



# Catchments - with potential phosphorus outcomes

## SoE map – Phosphorus (DRP)

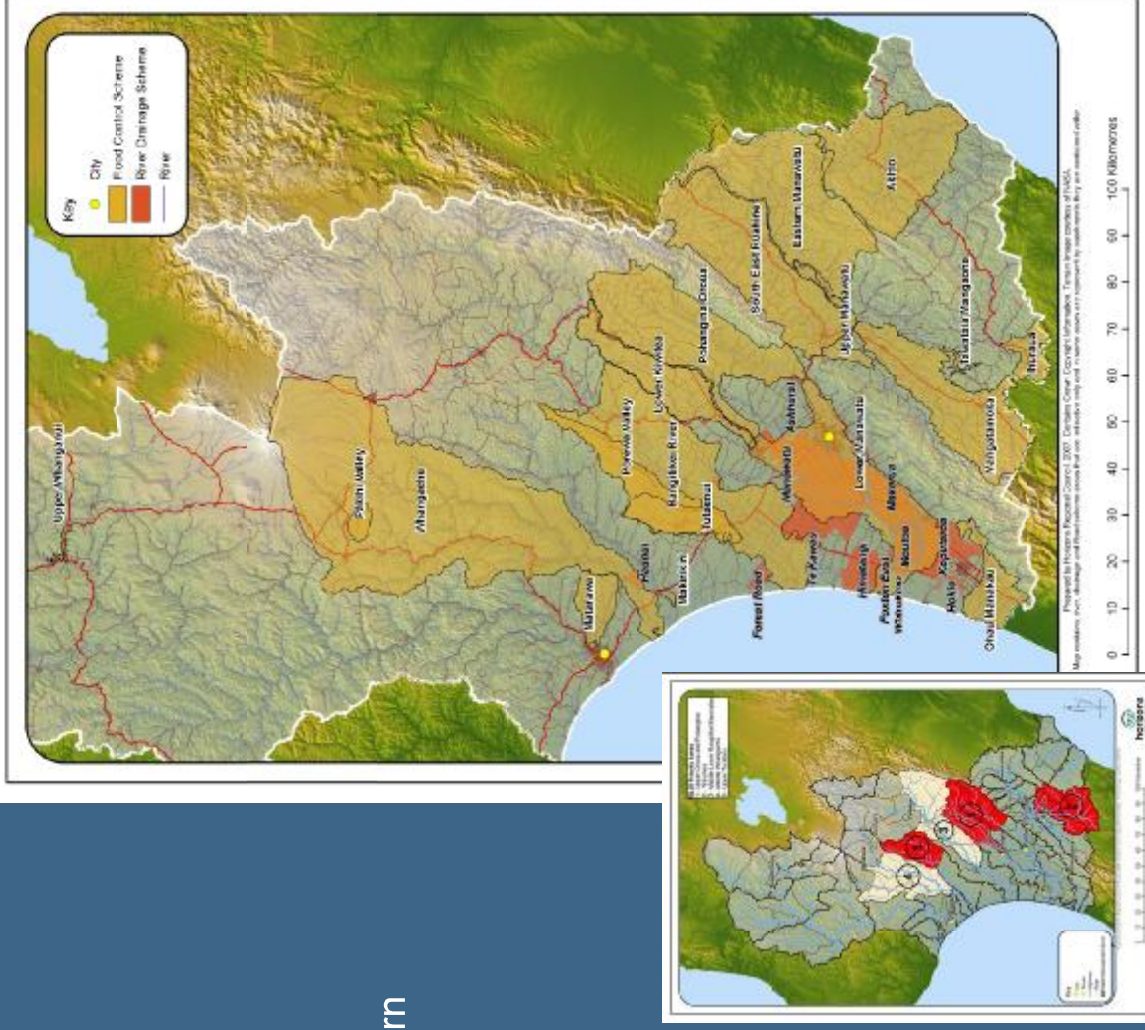
- Manawatu catchment
  - high potential areas
    - Tiraumea
    - Upper Manawatu
  - medium potential areas
    - Oroua
    - Pohangina
    - Mangatainoka
- Rangitikei
  - medium potential areas
    - Lower Rangitikei
- Whanganui
  - medium potential areas
    - Upper Ongarue
- Other Catchments
  - point sources are likely the primary source



# Catchments - with potential aggradation outcomes

Flood protection schemes (from Schedule I)

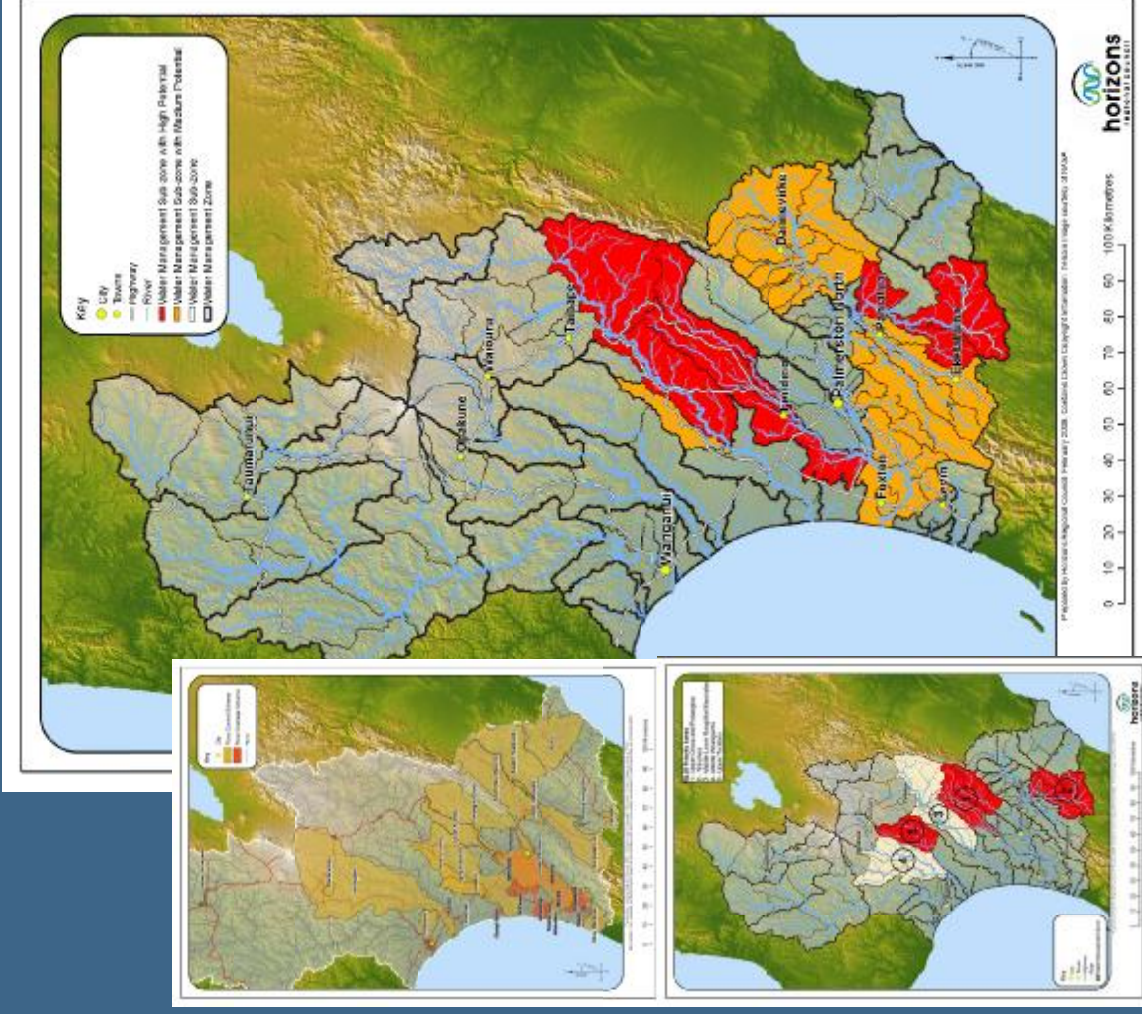
- Manawatu catchment (For lower manawatu scheme)
  - high potential areas (High
    - Oroua/Pohangina
    - Tiraumea
  - medium potential areas
    - Upper Manawatu
    - Lower Manawatu and Western Tararua
    - Mangahao
    - Mangatainoka
- Rangitikei (lower RTK scheme)
  - high potential areas
    - Kawhatau
    - Lower Rangitikei
  - medium potential areas
    - Porewa
  - No other catchments



# Catchments - with potential aggradation outcomes

Flood protection schemes (from Schedule I)

- Manawatu catchment (For lower manawatu scheme)
  - high potential areas (High
    - Oroua/Pohangina
    - Tiraumea (exl. makuri)
  - medium potential areas
    - Upper Manawatu
    - Lower Manawatu and Western Tararuas
    - Mangahao
    - Mangatainoka
- Rangitikei (lower RTK scheme)
  - high potential areas
    - Kawhatau
    - Lower Rangitikei
  - medium potential areas
    - Porewa
- No other catchments



| Catchment outcomes (high = 2, medium =1) |                           |           |       |       |       | 48) |
|------------------------------------------|---------------------------|-----------|-------|-------|-------|-----|
| Catchment                                | Sub area                  | Turbidity | Phos. | Aggr. | Total |     |
| Whanganui                                | Upper Ohura               | 2         |       |       | 2     |     |
|                                          | Lower Whanganui           | 2         |       |       | 2     |     |
|                                          | Ongarue                   | 1         | 1     |       | 2     |     |
|                                          | Upper Whanganui           | 1         |       |       | 1     |     |
| Whangaeahu                               | Whole catchment           | 2         |       |       | 2     |     |
| Turakina                                 | Whole catchment           | 1         |       |       | 1     |     |
| Rangitikei                               | Lower Rangitikei          | 1         | 1     | 2     | 4     |     |
|                                          | Kawahatau                 |           |       | 2     | 2     |     |
|                                          | Porewa                    |           |       | 1     | 1     |     |
| Manawatu                                 | Tiraumea                  | 2         | 2     | 2     | 6     |     |
|                                          | Oroua                     |           | 1     | 2     | 3     |     |
|                                          | Pohangina                 |           | 1     | 2     | 3     |     |
|                                          | Upper Manawatu            | 1         | 2     | 1     | 4     |     |
|                                          | Mangahao                  |           |       | 1     | 1     |     |
|                                          | Mangatainoka              |           | 1     | 1     | 2     |     |
|                                          | Lower Man + west Tararuas | 2         |       | 1     | 3     |     |
| Akitio                                   | Whole catchment           | 2         |       |       | 2     |     |
| Owhango                                  | Whole catchment           | 2         |       |       | 2     |     |

| Catchment outcomes (high = 2, medium =1, Aggradation>phos.>turbidity) |                           |           |       |       |       |  |
|-----------------------------------------------------------------------|---------------------------|-----------|-------|-------|-------|--|
| Catchment                                                             | Sub area                  | Turbidity | Phos. | Aggr. | Total |  |
| Manawatu                                                              | Tiraumea                  | 2         | 2     | 2     | 6     |  |
| Rangitikei                                                            | Lower Rangitikei          | 1         | 1     | 2     | 4     |  |
| Manawatu                                                              | Oroua                     |           | 1     | 2     | 3     |  |
| Manawatu                                                              | Pohangina                 |           | 1     | 2     | 3     |  |
| Rangitikei                                                            | Kawahatau                 |           |       | 2     | 2     |  |
| Manawatu                                                              | Upper Manawatu            | 1         | 2     | 1     | 4     |  |
| Manawatu                                                              | Mangatainoka              |           | 1     | 1     | 2     |  |
| Manawatu                                                              | Lower Man + west Tararuas | 2         |       | 1     | 3     |  |
| Rangitikei                                                            | Porewa                    |           |       | 1     | 1     |  |
| Manawatu                                                              | Mangahao                  |           |       | 1     | 1     |  |
| Wanganui                                                              | Ongarue                   | 1         | 1     |       | 2     |  |
| Whanganui                                                             | Upper Ohura               | 2         |       |       | 2     |  |
| Whanganui                                                             | Lower Whanganui           | 2         |       |       | 2     |  |
| Whangaehu                                                             | Whole catchment           | 2         |       |       | 2     |  |
| Akitio                                                                | Whole catchment           | 2         |       |       | 2     |  |
| Owhango                                                               | Whole catchment           | 2         |       |       | 2     |  |
| Whanganui                                                             | Upper Whanganui           | 1         |       |       | 1     |  |
| Turakina                                                              | Whole catchment           | 1         |       |       | 1     |  |

