

Legend

- WAIKANAЕ RIVER CONSENT AREA
- DESIGN CHANNEL
- BUFFER ZONE

LAND OWNERSHIP WITHIN CONSENT AREA

- DOC
- KCDC

Aerial Photography : GW Jan. 2013
 Drawn : P.Cook
 Date Plotted : 13 Oct 2014



0 25 50 100 Meters
 A3 Scale :1:2,500

WAIKANAЕ RIVER - CONSENT AREA - Map 1
 Land Ownership / Administration (River Mouth to Water Treatment Plant Weir)

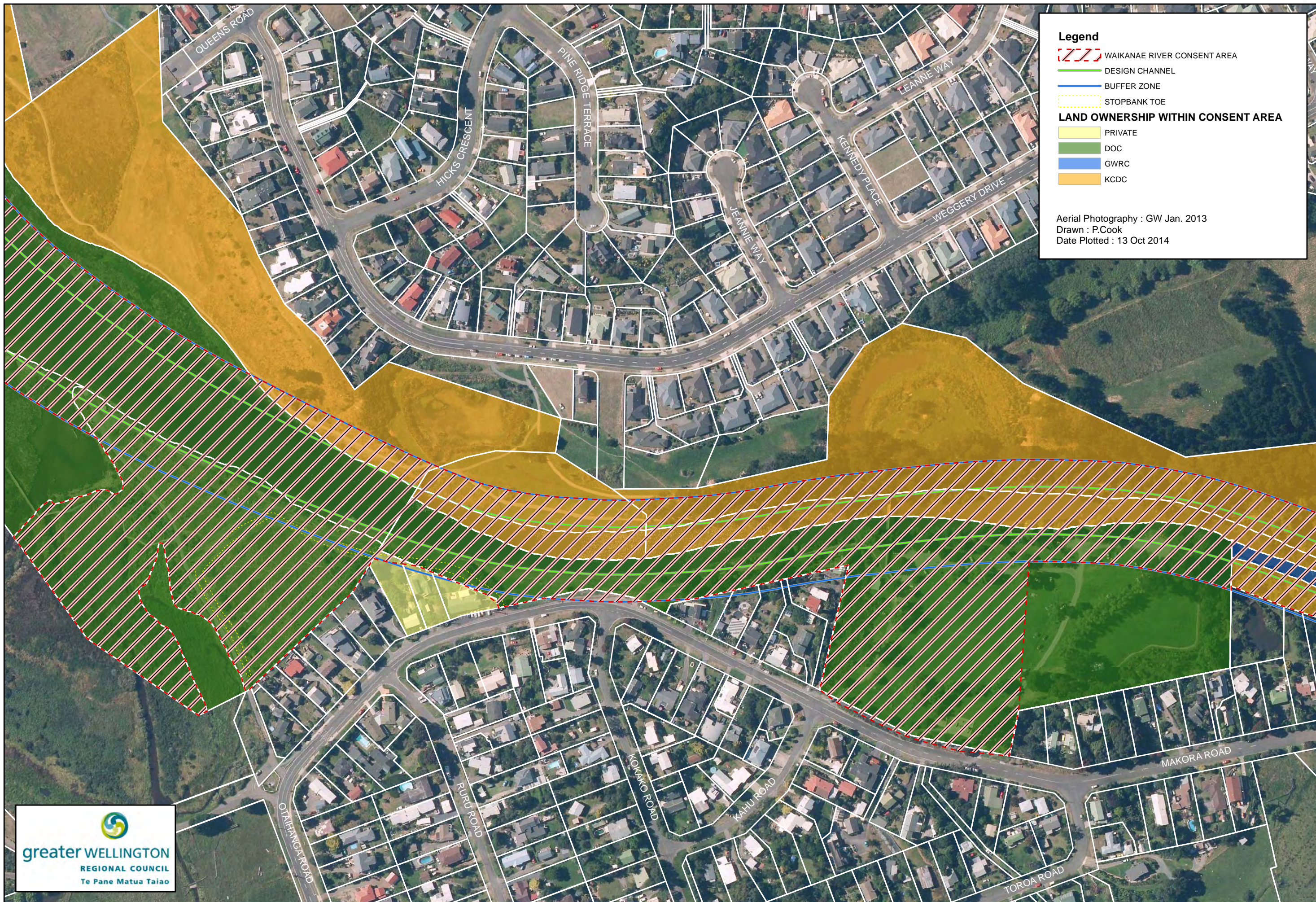
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NOTE :
 Ownership Information KCDC Rates Data Sept 2014 DWG No. **W-270 / 1**

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Legend

- WAIKANAE RIVER CONSENT AREA
- DESIGN CHANNEL
- BUFFER ZONE
- STOPBANK TOE

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- DOC
- GWRC
- KCDC

Aerial Photography : GW Jan. 2013
 Drawn : P.Cook
 Date Plotted : 13 Oct 2014



0 25 50 100 Meters
 A3 Scale :1:2,500

WAIKANAE RIVER - CONSENT AREA - Map 2
 Land Ownership / Administration (River Mouth to Water Treatment Plant Weir)

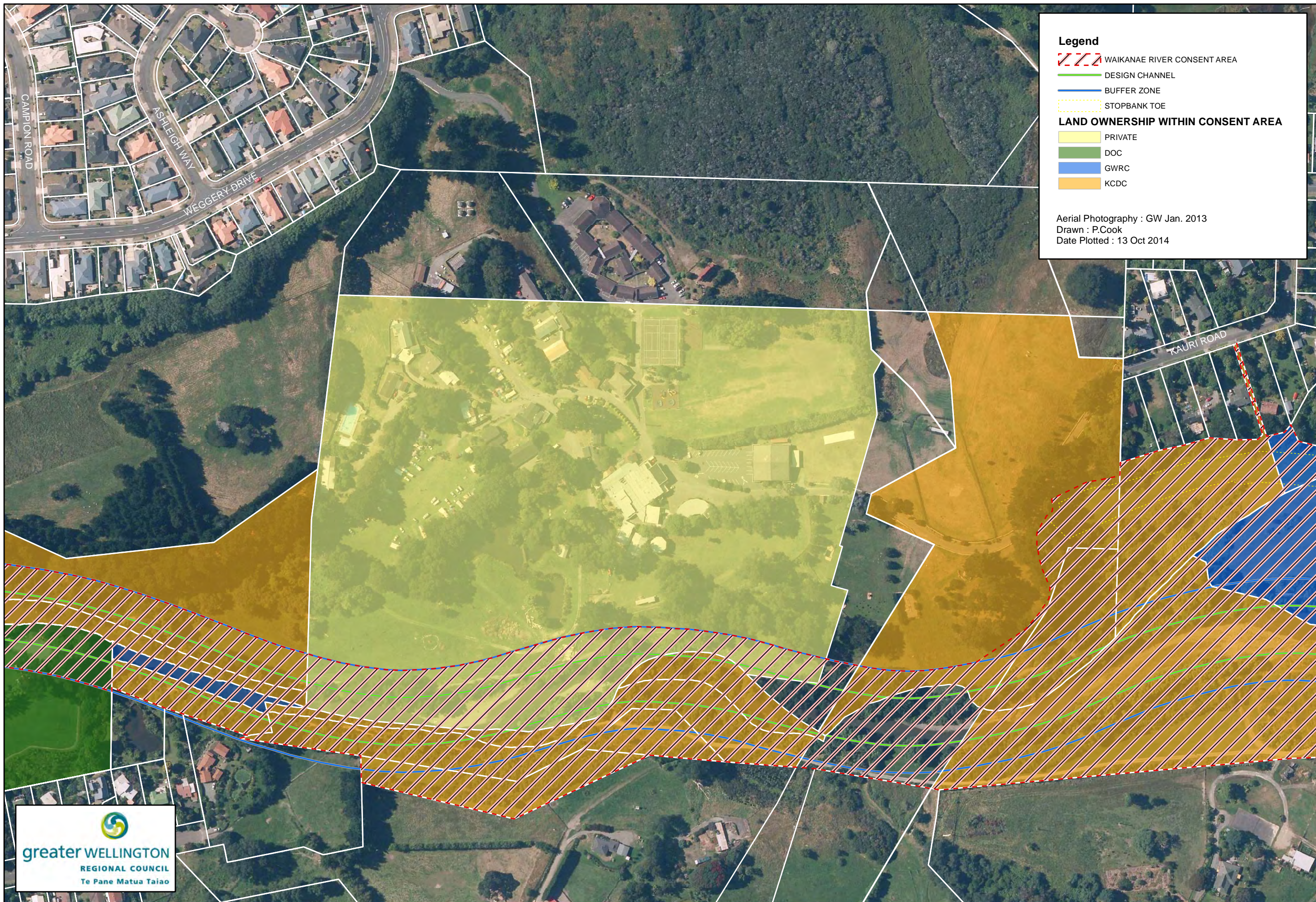
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Legend

- WAIKANAЕ RIVER CONSENT AREA
- DESIGN CHANNEL
- BUFFER ZONE
- STOPBANK TOE

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- DOC
- GWRC
- KCDC

Aerial Photography : GW Jan. 2013
 Drawn : P.Cook
 Date Plotted : 13 Oct 2014



0 25 50 100 Meters
 A3 Scale :1:2,500

WAIKANAЕ RIVER - CONSENT AREA - Map 3
 Land Ownership / Administration (River Mouth to Water Treatment Plant Weir)

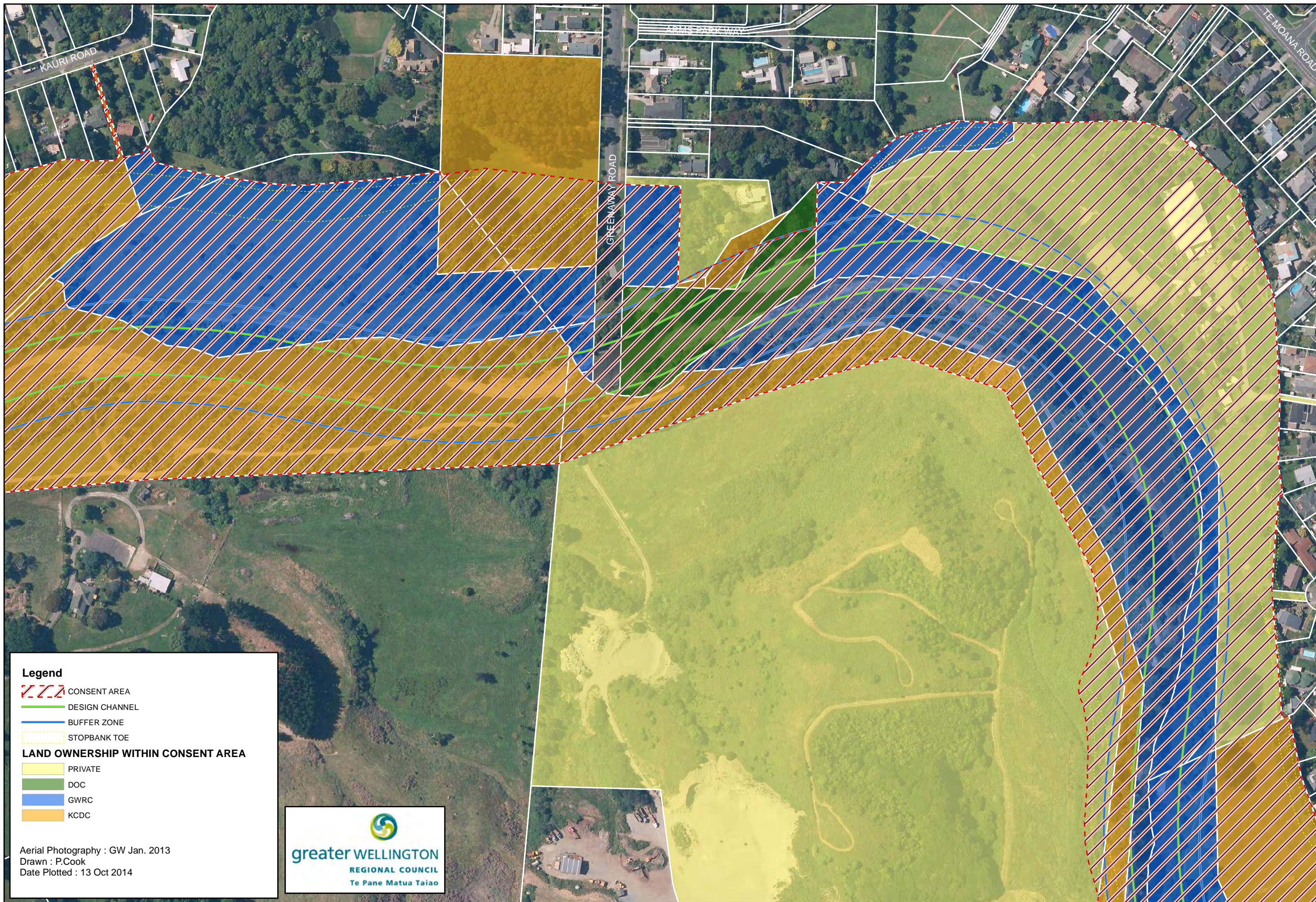
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Legend

- CONSENT AREA
- DESIGN CHANNEL
- BUFFER ZONE
- STOPBANK TOE

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- DOC
- GWRC
- KCDC

Aerial Photography : GW Jan. 2013
 Drawn : P.Cook
 Date Plotted : 13 Oct 2014



0 25 50 100 Meters
 A3 Scale :1:2,500

WAIKANAЕ RIVER - CONSENT AREA - Map 4
 Land Ownership / Administration (River Mouth to Water Treatment Plant Weir)

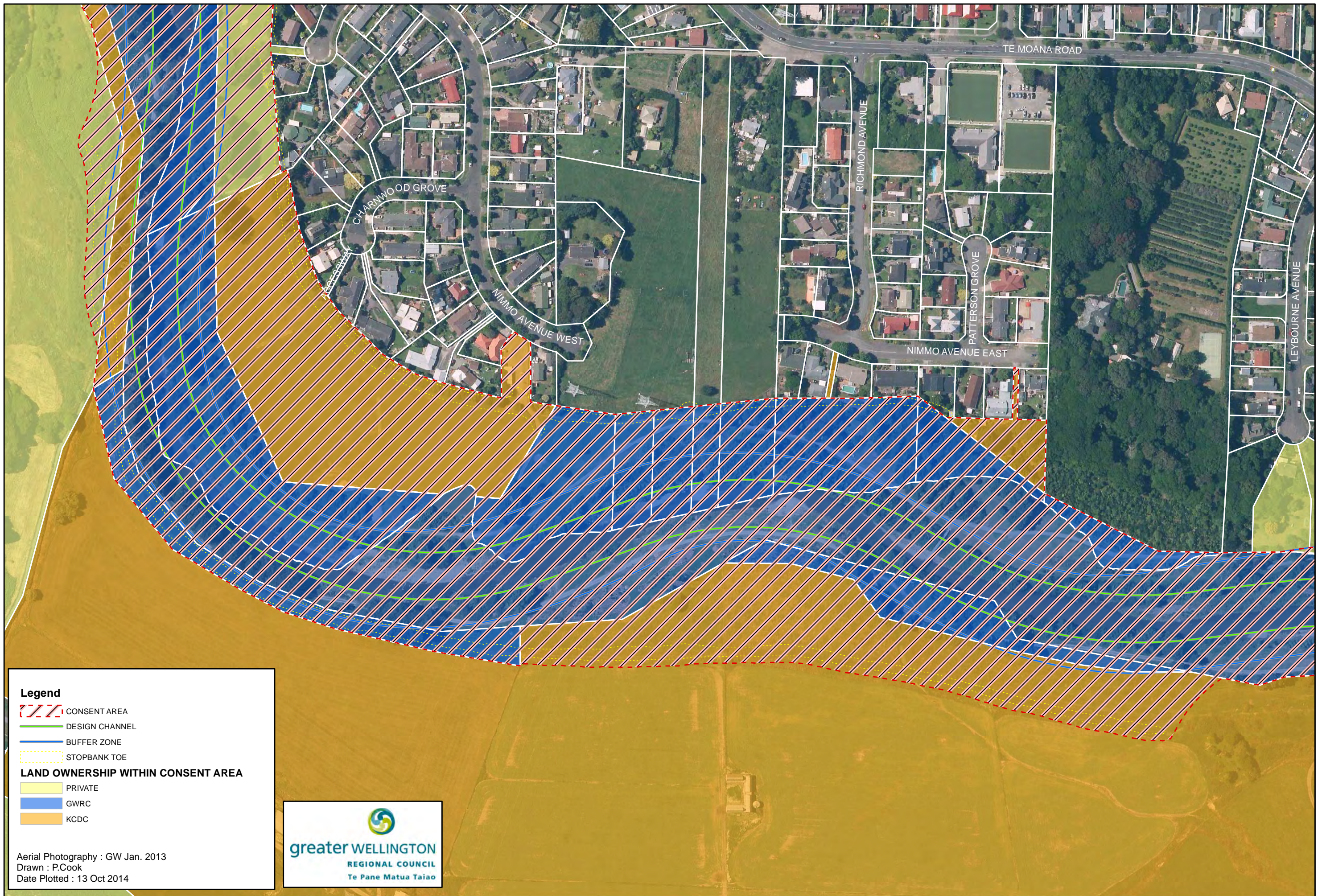
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NOTE :
 Ownership Information KCDC Rates Data Sept 2014 DWG No. **W-270 / 4**





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






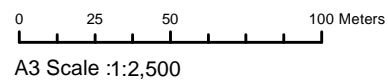
Legend

-  CONSENT AREA
-  DESIGN CHANNEL
-  BUFFER ZONE
-  STOPBANK TOE

LAND OWNERSHIP WITHIN CONSENT AREA

-  PRIVATE
-  GWRC
-  KCDC

Aerial Photography : GW Jan. 2013
 Drawn : P.Cook
 Date Plotted : 13 Oct 2014



WAIKANAЕ RIVER - CONSENT AREA - Map 5
 Land Ownership / Administration (River Mouth to Water Treatment Plant Weir)

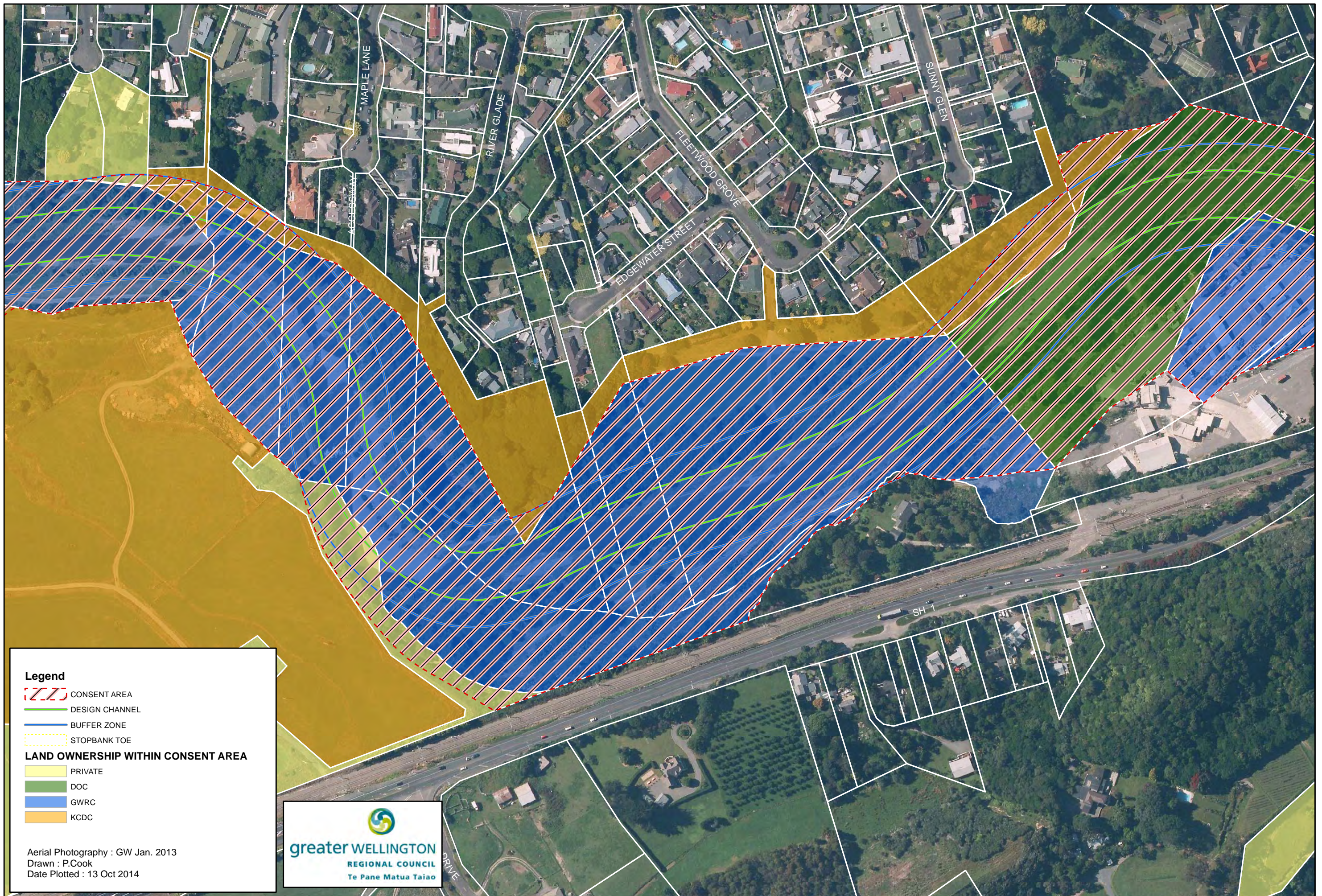
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NOTE :
 Ownership Information KCDC Rates Data Sept 2014 DWG No. **W-270 / 5**

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Legend

- CONSENT AREA
- DESIGN CHANNEL
- BUFFER ZONE
- STOPBANK TOE

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- DOC
- GWRC
- KCDC

Aerial Photography : GW Jan. 2013
 Drawn : P.Cook
 Date Plotted : 13 Oct 2014



0 25 50 100 Meters
 A3 Scale :1:2,500

WAIKANAЕ RIVER - CONSENT AREA - Map 6
 Land Ownership / Administration (River Mouth to Water Treatment Plant Weir)

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Legend

- WAIKANAЕ RIVER CONSENT AREA
- DESIGN CHANNEL
- BUFFER ZONE

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- DOC
- GWRC

Aerial Photography : GW Jan. 2013
 Drawn : P.Cook
 Date Plotted : 13 Oct 2014



0 25 50 100 Meters
 A3 Scale :1:2,500

WAIKANAЕ RIVER - CONSENT AREA - Map 7
 Land Ownership / Administration (River Mouth to Water Treatment Plant Weir)

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Legend
 [Red hatched box] CONSENT AREA
 [Green line] DESIGN CHANNEL
 [Blue line] BUFFER ZONE

LAND OWNERSHIP WITHIN CONSENT AREA
 [Yellow box] PRIVATE
 [Orange box] KDC

Aerial Photography : GW Jan. 2013
 Drawn : P.Cook
 Date Plotted : 13 Oct 2014



0 25 50 100 Meters
 A3 Scale :1:2,500

WAIKANAЕ RIVER - CONSENT AREA - Map 8
 Land Ownership / Administration (River Mouth to Water Treatment Plant Weir)

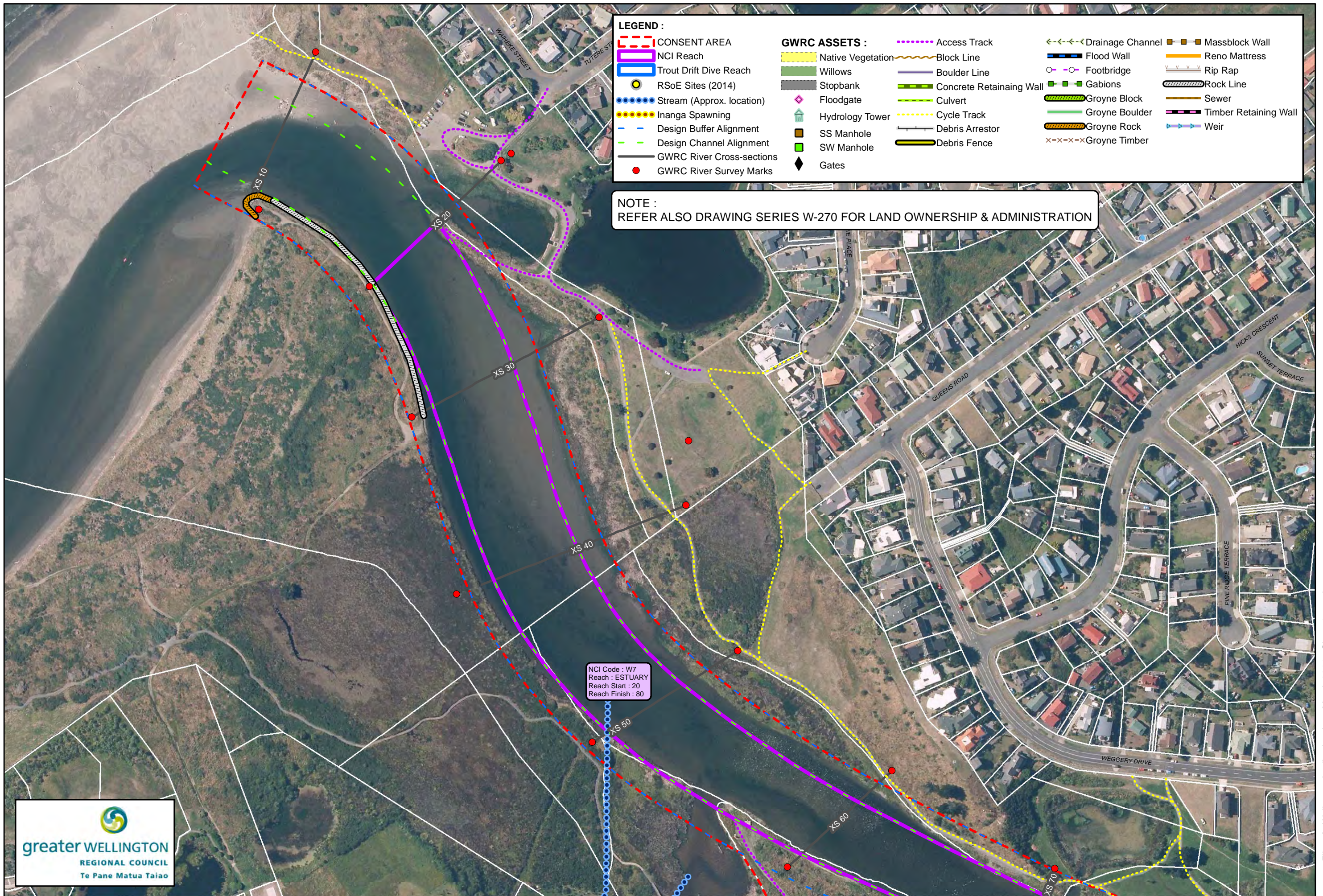
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NOTE :
 Ownership Information KDC Rates Data Sept 2014 DWG No. **W-270 / 8**

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0 25 50 100 Meters
A3 Scale :1:2,500

WAIKANAЕ RIVER - CONSENT AREA - Map 1a
GWRC Asset, Fish & Ecological Information (River Mouth to Water Treatment Plant Weir)

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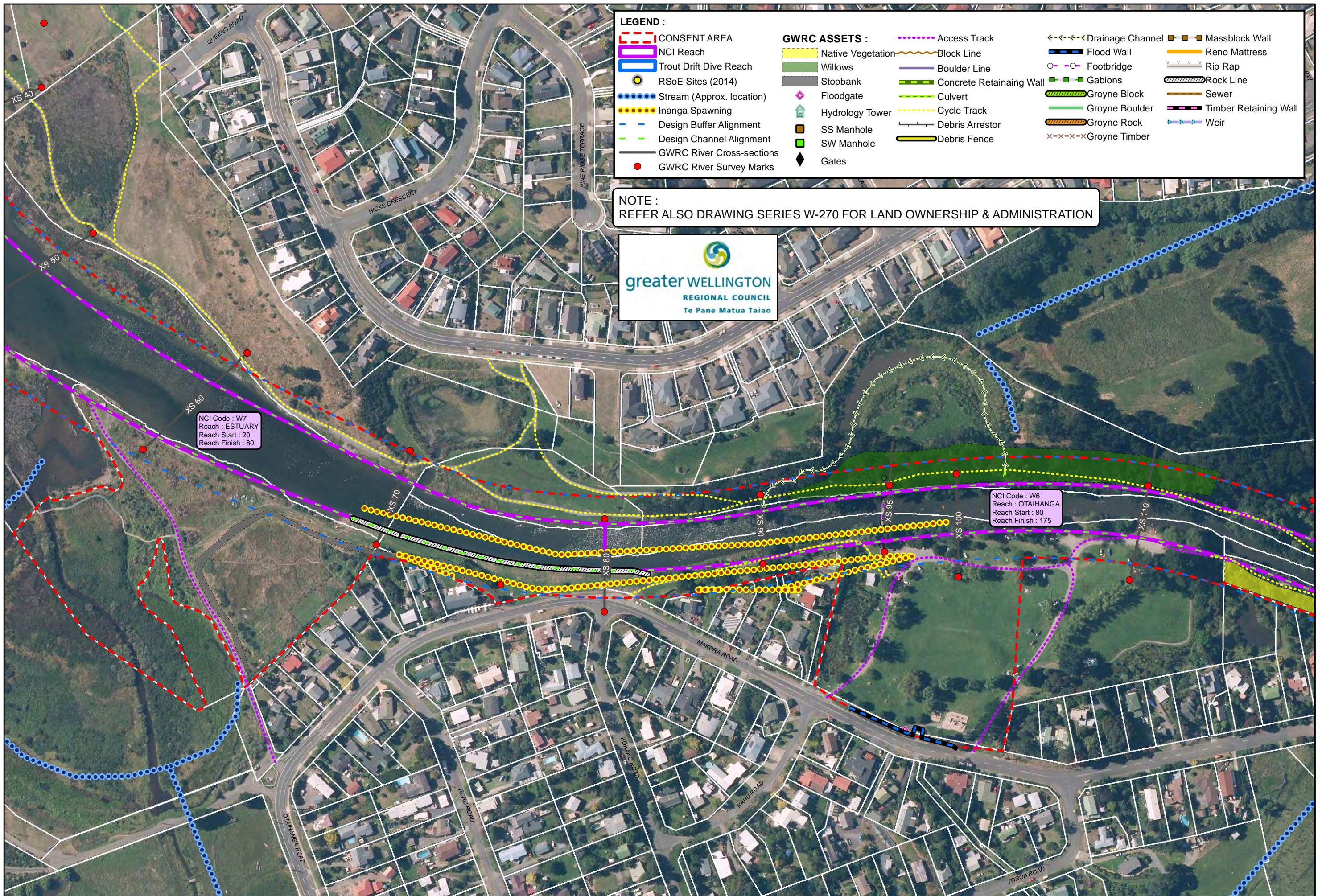
Drawn : P.Cook, Date Plotted : 7 July 2015
Aerial Photo : GWRC 2013

DWG No. **W-271 / 1**

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File ref : Waikanae Application Area March 2014 - Sheet 1a.mxd





LEGEND :

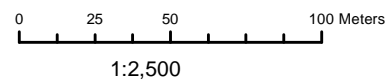
CONSENT AREA	Native Vegetation	Access Track	Drainage Channel	Massblock Wall
NCI Reach	Willows	Block Line	Flood Wall	Reno Mattress
Trout Drift Dive Reach	Stopbank	Boulder Line	Footbridge	Rip Rap
RSoE Sites (2014)	Floodgate	Concrete Retaining Wall	Gabions	Rock Line
Stream (Approx. location)	Hydrology Tower	Culvert	Groyne Block	Sewer
Inanga Spawning	SS Manhole	Cycle Track	Groyne Boulder	Timber Retaining Wall
Design Buffer Alignment	SW Manhole	Debris Arrestor	Groyne Rock	Weir
Design Channel Alignment	Gates	Debris Fence	Groyne Timber	
GWRC River Cross-sections				
GWRC River Survey Marks				

NOTE :
REFER ALSO DRAWING SERIES W-270 FOR LAND OWNERSHIP & ADMINISTRATION



NCI Code : W7
Reach : ESTUARY
Reach Start : 20
Reach Finish : 80

NCI Code : W6
Reach : OTAIHANGA
Reach Start : 80
Reach Finish : 175



WAIKANAE RIVER - CONSENT AREA - Map 2a
GWRC Asset, Fish & Ecological Information (River Mouth to Water Treatment Plant Weir)

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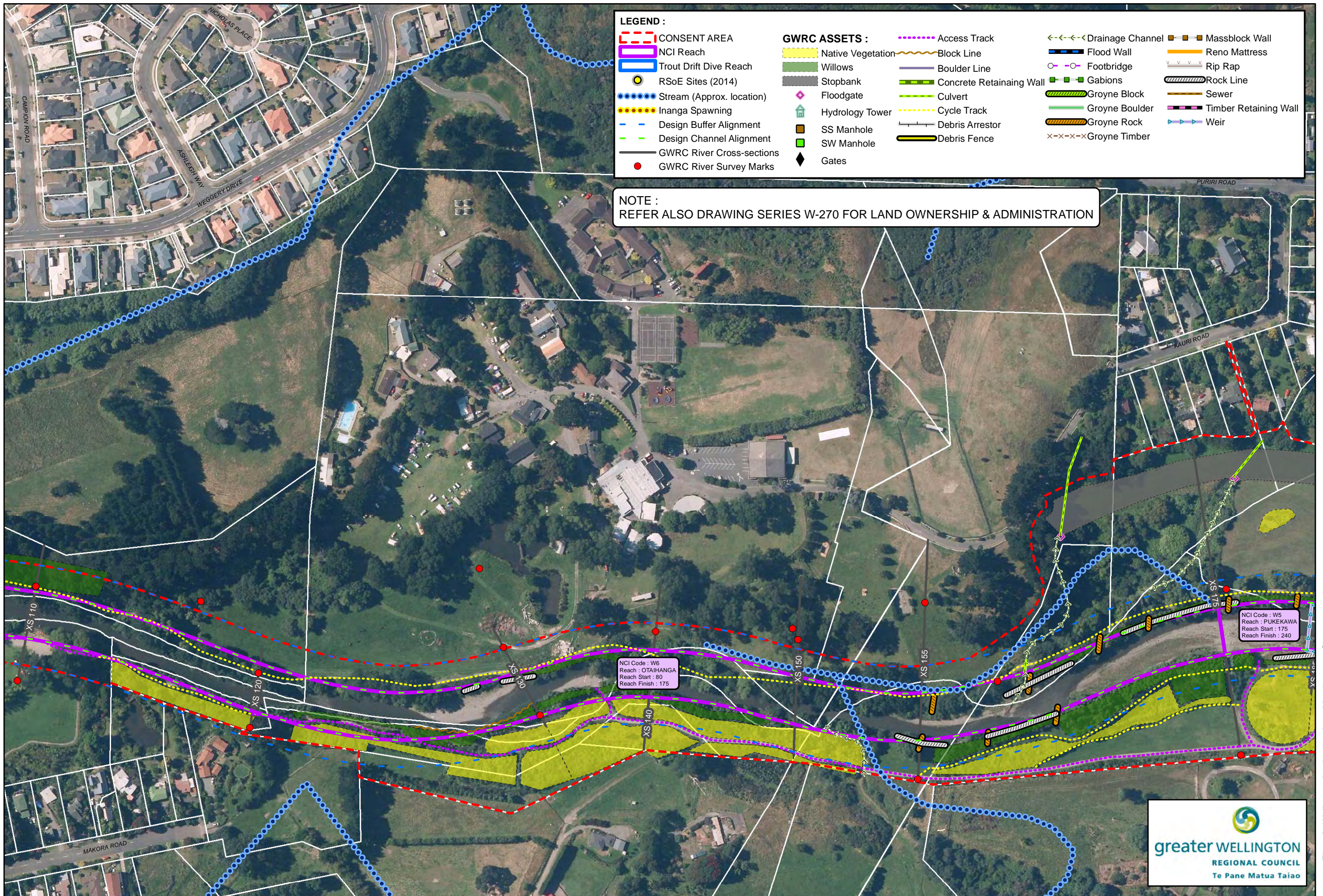
Drawn : P.Cook, Date Plotted : 7 July 2015
Aerial Photo : GWRC 2013

DWG No. **W-271 / 2**

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LEGEND :

- | | | | | |
|---------------------------|-------------------|-------------------------|------------------|-----------------------|
| CONSENT AREA | Native Vegetation | Access Track | Drainage Channel | Massblock Wall |
| NCI Reach | Willows | Block Line | Flood Wall | Reno Mattress |
| Trout Drift Dive Reach | Stopbank | Boulder Line | Footbridge | Rip Rap |
| RSoE Sites (2014) | Floodgate | Concrete Retaining Wall | Gabions | Rock Line |
| Stream (Approx. location) | Hydrology Tower | Culvert | Groyne Block | Sewer |
| Inanga Spawning | SS Manhole | Cycle Track | Groyne Boulder | Timber Retaining Wall |
| Design Buffer Alignment | SW Manhole | Debris Arrestor | Groyne Rock | Weir |
| Design Channel Alignment | Gates | Debris Fence | Groyne Timber | |
| GWRC River Cross-sections | | | | |
| GWRC River Survey Marks | | | | |

NOTE :
REFER ALSO DRAWING SERIES W-270 FOR LAND OWNERSHIP & ADMINISTRATION

NCI Code : W6
Reach : OTAHANGA
Reach Start : 80
Reach Finish : 175

NCI Code : W5
Reach : PUKEKAWA
Reach Start : 175
Reach Finish : 240

0 25 50 100 Meters
A3 Scale : 1:2,500

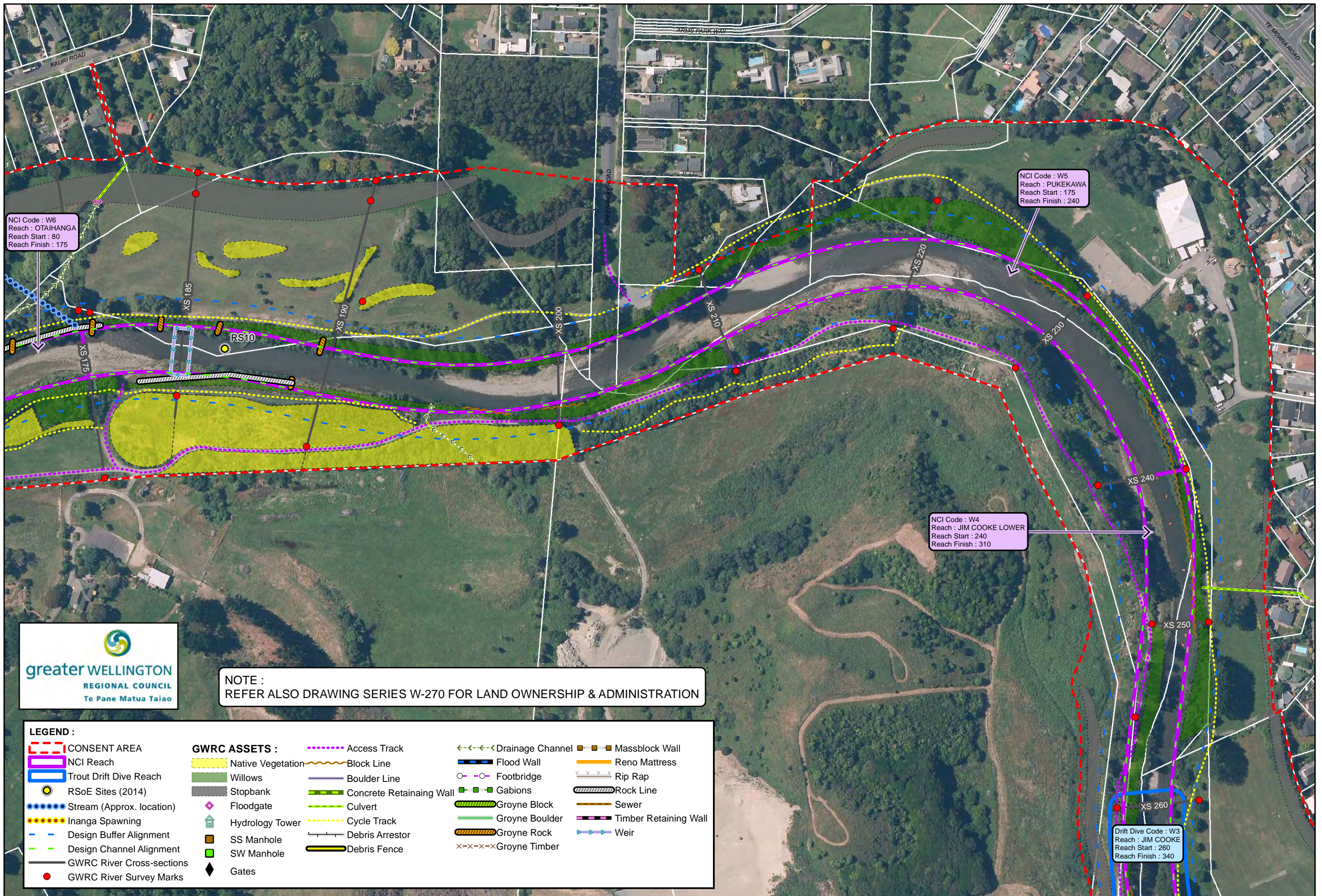
WAIKANAЕ RIVER - CONSENT AREA - Map 3a
GWRC Asset, Fish & Ecological Information (River Mouth to Water Treatment Plant Weir)

Drawn : P.Cook, Date Plotted : 7 July 2015
Aerial Photo : GWRC 2013

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DWG No. **W-271 / 3**

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NOTE : REFER ALSO DRAWING SERIES W-270 FOR LAND OWNERSHIP & ADMINISTRATION

LEGEND :	
[Red dashed line]	CONSENT AREA
[Purple dashed line]	NCI Reach
[Blue dashed line]	Trout Drift Dive Reach
[Yellow circle]	RSoE Sites (2014)
[Blue dots]	Stream (Approx. location)
[Yellow dots]	Inanga Spawning
[Blue dashed line]	Design Buffer Alignment
[Green dashed line]	Design Channel Alignment
[Black line]	GWRC River Cross-sections
[Red dot]	GWRC River Survey Marks
[Yellow area]	Native Vegetation
[Green area]	Willows
[Grey area]	Stopbank
[Pink diamond]	Floodgate
[Green house icon]	Hydrology Tower
[Brown square]	SS Manhole
[Green square]	SW Manhole
[Black diamond]	Gates
[Purple dashed line]	Access Track
[Yellow wavy line]	Block Line
[Blue dashed line]	Boulder Line
[Green dashed line]	Concrete Retaining Wall
[Green dashed line]	Culvert
[Green dashed line]	Cycle Track
[Black dashed line]	Debris Arrestor
[Black dashed line]	Debris Fence
[Blue dashed line]	Drainage Channel
[Blue dashed line]	Flood Wall
[Blue dashed line]	Footbridge
[Green dashed line]	Gabions
[Green dashed line]	Groyne Block
[Green dashed line]	Groyne Boulder
[Green dashed line]	Groyne Rock
[Green dashed line]	Groyne Timber
[Brown dashed line]	Massblock Wall
[Yellow dashed line]	Reno Mattress
[Yellow dashed line]	Rip Rap
[Black dashed line]	Rock Line
[Black dashed line]	Sewer
[Black dashed line]	Timber Retaining Wall
[Blue dashed line]	Weir

0 25 50 100 Meters
A3 Scale :1:2,500

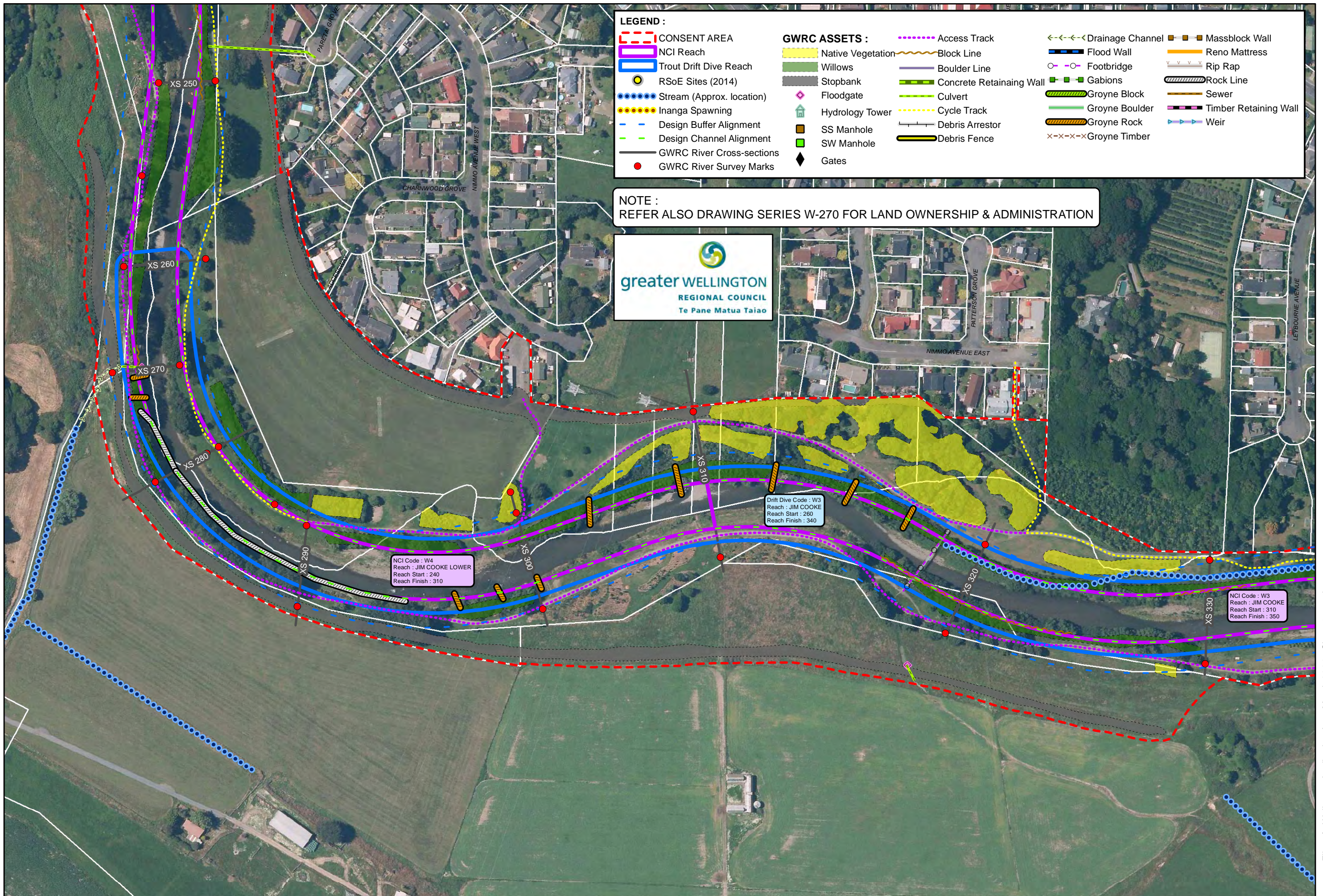
WAIKANAE RIVER - CONSENT AREA - Map 4a
GWRC Asset, Fish & Ecological Information (River Mouth to Water Treatment Plant Weir)

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Aerial Photo : GWRC 2013

DWG No. **W-271 / 4**

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LEGEND :

- | | | | | |
|---------------------------|-------------------|-------------------------|------------------|-----------------------|
| CONSENT AREA | Native Vegetation | Access Track | Drainage Channel | Massblock Wall |
| NCI Reach | Willows | Block Line | Flood Wall | Reno Mattress |
| Trout Drift Dive Reach | Stopbank | Boulder Line | Footbridge | Rip Rap |
| RSoE Sites (2014) | Floodgate | Concrete Retaining Wall | Gabions | Rock Line |
| Stream (Approx. location) | Hydrology Tower | Culvert | Groyne Block | Sewer |
| Inanga Spawning | SS Manhole | Cycle Track | Groyne Boulder | Timber Retaining Wall |
| Design Buffer Alignment | SW Manhole | Debris Arrestor | Groyne Rock | Weir |
| Design Channel Alignment | Gates | Debris Fence | Groyne Timber | |
| GWRC River Cross-sections | | | | |
| GWRC River Survey Marks | | | | |

NOTE :
REFER ALSO DRAWING SERIES W-270 FOR LAND OWNERSHIP & ADMINISTRATION



NCI Code : W4
Reach : JIM COOKE LOWER
Reach Start : 240
Reach Finish : 310

Drift Dive Code : W3
Reach : JIM COOKE
Reach Start : 260
Reach Finish : 340

NCI Code : W3
Reach : JIM COOKE
Reach Start : 310
Reach Finish : 350

0 25 50 100 Meters
A3 Scale :1:2,500

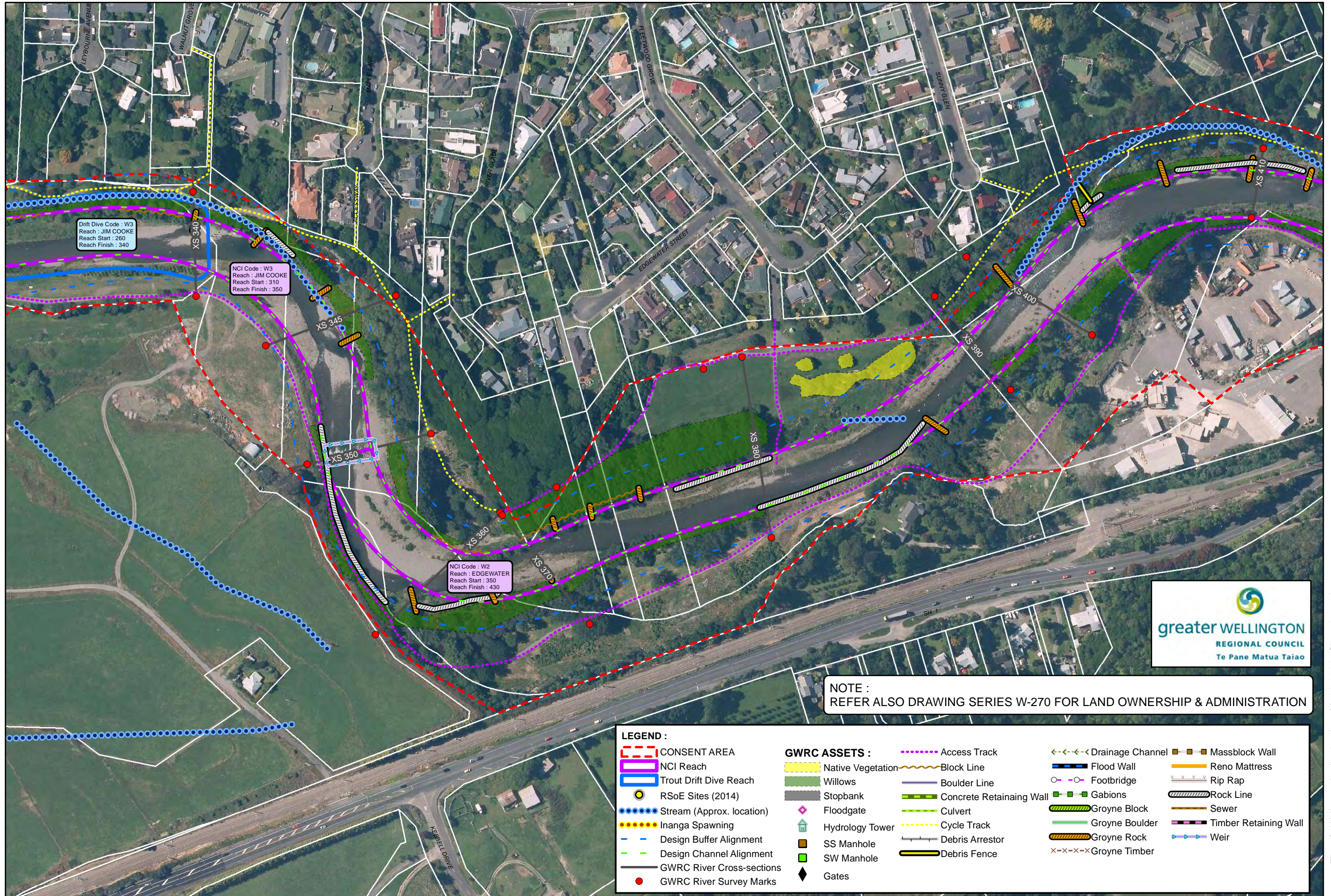
WAIKANAЕ RIVER - CONSENT AREA - Map 5a
GWRC Asset, Fish & Ecological Information (River Mouth to Water Treatment Plant Weir)

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Drawn : P.Cook, Date Plotted : 7 July 2015
Aerial Photo : GWRC 2013

DWG No. **W-271 / 5**

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NOTE : REFER ALSO DRAWING SERIES W-270 FOR LAND OWNERSHIP & ADMINISTRATION

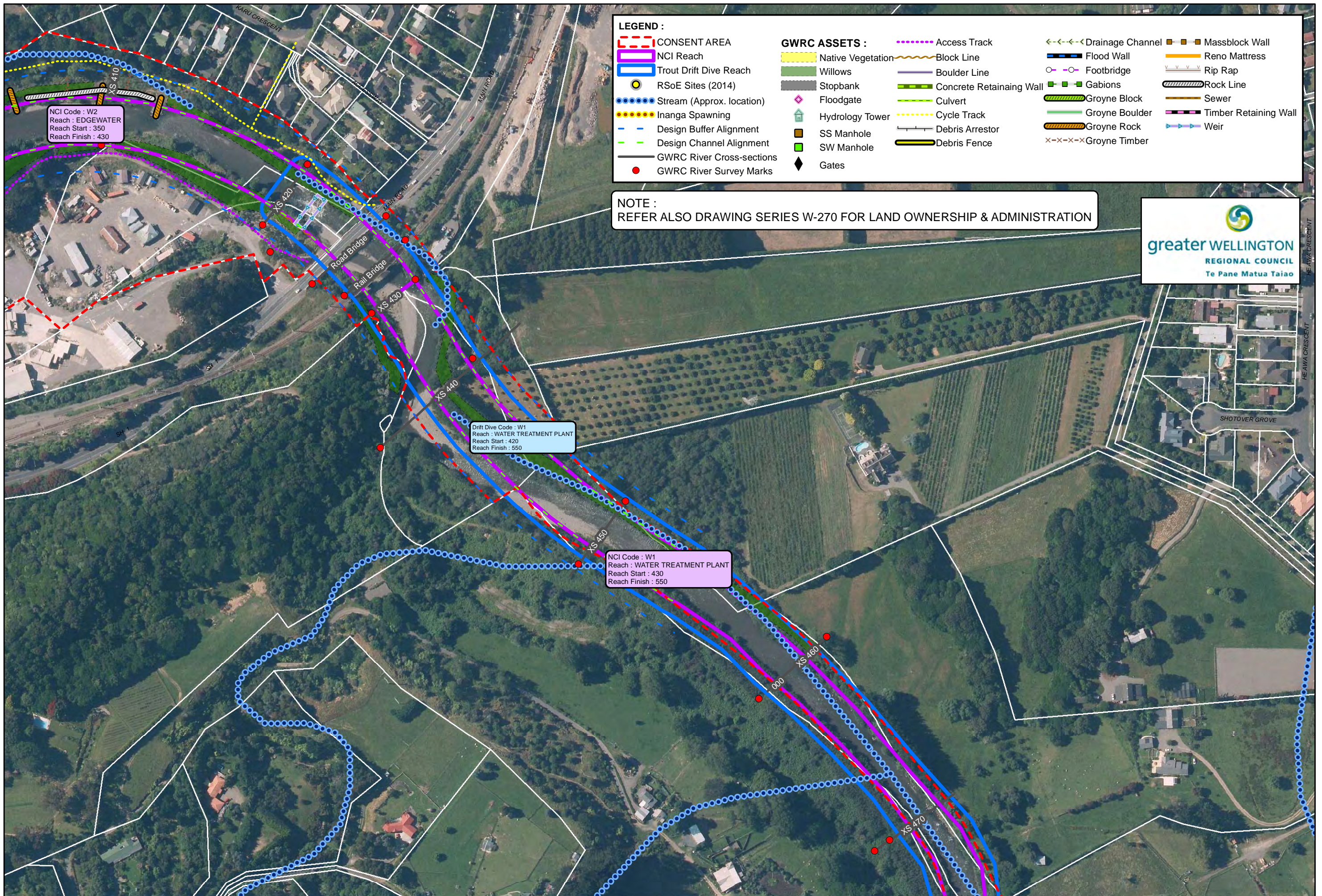
LEGEND :		GWRC ASSETS :	
[Red dashed line]	CONSENT AREA	[Green area]	Native Vegetation
[Purple outline]	NCI Reach	[Green area]	Willows
[Blue outline]	Trout Drift Dive Reach	[Grey area]	Stopbank
[Yellow circle]	RSoE Sites (2014)	[Green diamond]	Floodgate
[Blue dots]	Stream (Approx. location)	[Green house]	Hydrology Tower
[Yellow dots]	Inanga Spawning	[Brown square]	SS Manhole
[Blue dashed line]	Design Buffer Alignment	[Green square]	SW Manhole
[Green dashed line]	Design Channel Alignment	[Black diamond]	Gates
[Black line]	GWRC River Cross-sections	[Purple dashed line]	Access Track
[Red dot]	GWRC River Survey Marks	[Yellow dashed line]	Block Line
		[Blue dashed line]	Boulder Line
		[Green dashed line]	Concrete Retaining Wall
		[Green dashed line]	Culvert
		[Yellow dashed line]	Cycle Track
		[Black dashed line]	Debris Arrestor
		[Yellow dashed line]	Debris Fence
		[Blue dashed line]	Drainage Channel
		[Blue dashed line]	Flood Wall
		[Blue dashed line]	Footbridge
		[Green dashed line]	Gabions
		[Green dashed line]	Groyne Block
		[Green dashed line]	Groyne Boulder
		[Green dashed line]	Groyne Rock
		[Green dashed line]	Groyne Timber
		[Brown dashed line]	Massblock Wall
		[Yellow dashed line]	Reno Mattress
		[Grey dashed line]	Rip Rap
		[Black dashed line]	Rock Line
		[Black dashed line]	Sewer
		[Black dashed line]	Timber Retaining Wall
		[Blue dashed line]	Weir

0 25 50 100 Meters
A3 Scale :1:2,500

WAIKANAЕ RIVER - CONSENT AREA - Map 6a
GWRC Asset, Fish & Ecological Information (River Mouth to Water Treatment Plant Weir)

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Aerial Photo : GWRC 2013
DWG No. **W-271 / 6**

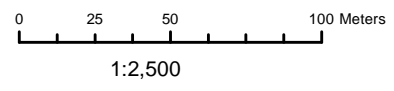




LEGEND :

CONSENT AREA	Native Vegetation	Access Track	Drainage Channel	Massblock Wall
NCI Reach	Willows	Block Line	Flood Wall	Reno Mattress
Trout Drift Dive Reach	Stopbank	Boulder Line	Footbridge	Rip Rap
RSoE Sites (2014)	Floodgate	Concrete Retaining Wall	Gabions	Rock Line
Stream (Approx. location)	Hydrology Tower	Culvert	Groyne Block	Sewer
Inanga Spawning	SS Manhole	Cycle Track	Groyne Boulder	Timber Retaining Wall
Design Buffer Alignment	SW Manhole	Debris Arrestor	Groyne Rock	Weir
Design Channel Alignment	Gates	Debris Fence	Groyne Timber	
GWRC River Cross-sections				
GWRC River Survey Marks				

NOTE :
REFER ALSO DRAWING SERIES W-270 FOR LAND OWNERSHIP & ADMINISTRATION



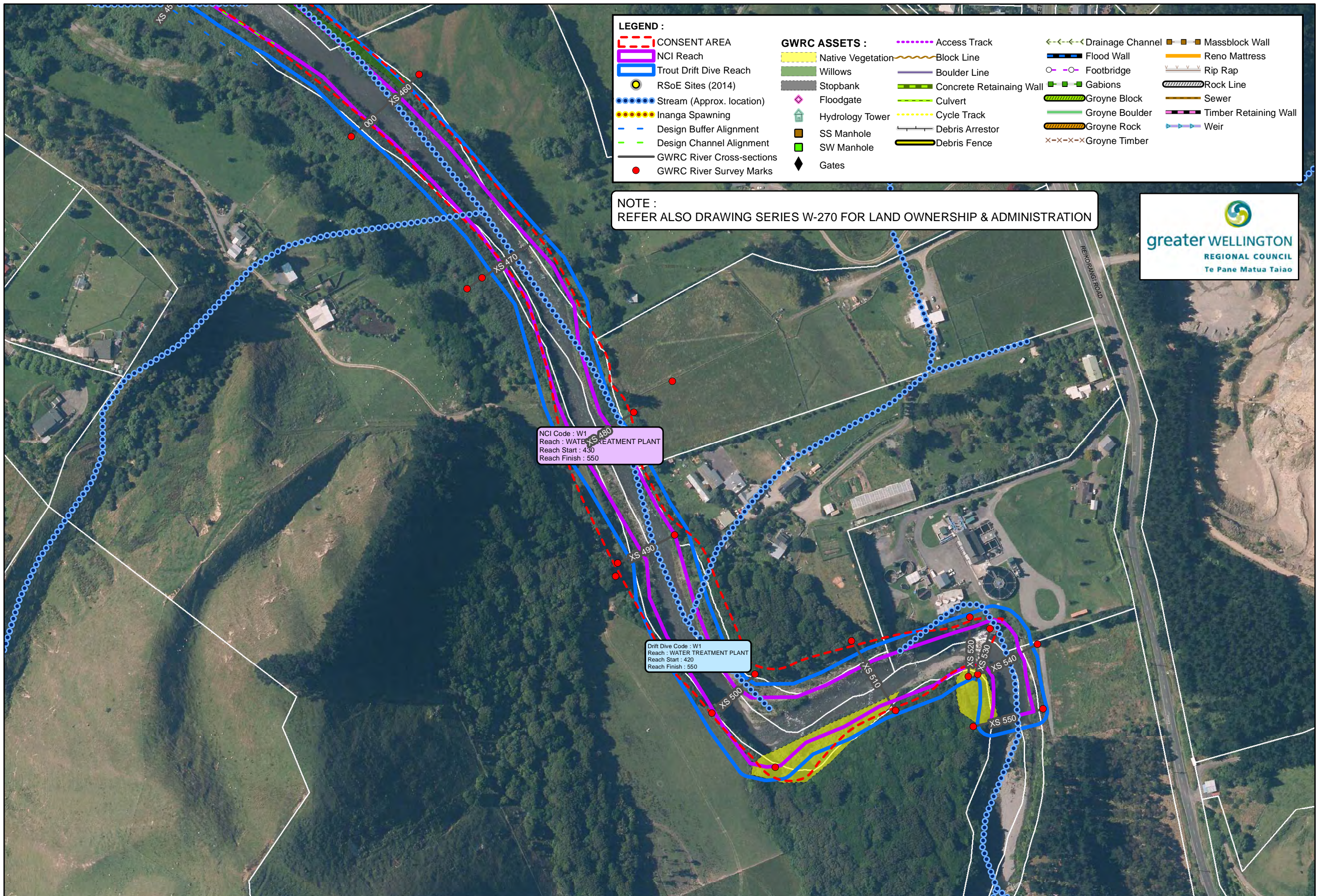
WAIKANAЕ RIVER - CONSENT AREA - Map 7a
GWRC Asset, Fish & Ecological Information (River Mouth to Water Treatment Plant Weir)

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LEGEND :

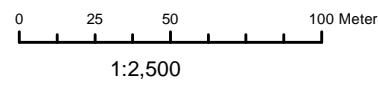
CONSENT AREA	Native Vegetation	Access Track	Drainage Channel	Massblock Wall
NCI Reach	Willows	Block Line	Flood Wall	Reno Mattress
Trout Drift Dive Reach	Stopbank	Boulder Line	Footbridge	Rip Rap
RSoE Sites (2014)	Floodgate	Concrete Retaining Wall	Gabions	Rock Line
Stream (Approx. location)	Hydrology Tower	Culvert	Groyne Block	Sewer
Inanga Spawning	SS Manhole	Cycle Track	Groyne Boulder	Timber Retaining Wall
Design Buffer Alignment	SW Manhole	Debris Arrestor	Groyne Rock	Weir
Design Channel Alignment	Gates	Debris Fence	Groyne Timber	
GWRC River Cross-sections				
GWRC River Survey Marks				

NOTE :
REFER ALSO DRAWING SERIES W-270 FOR LAND OWNERSHIP & ADMINISTRATION



NCI Code : W1
Reach : WATER TREATMENT PLANT
Reach Start : 430
Reach Finish : 550

Drift Dive Code : W1
Reach : WATER TREATMENT PLANT
Reach Start : 420
Reach Finish : 550



WAIKANAЕ RIVER - CONSENT AREA - Map 8a
GWRC Asset, Fish & Ecological Information (River Mouth to Water Treatment Plant Weir)

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Aerial Photo : GWRC 2013

DWG No. **W-271 / 8**

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