

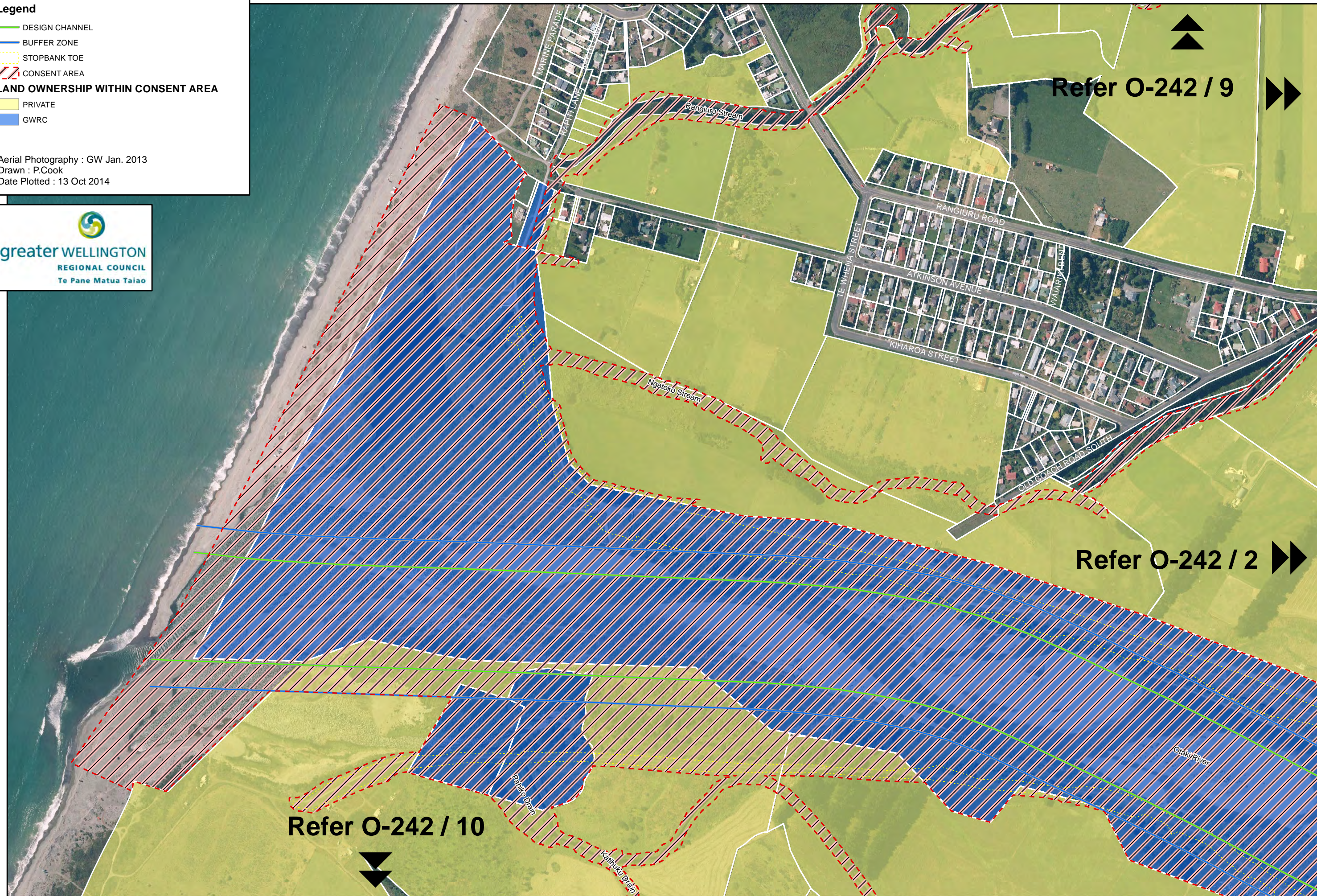
Legend

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

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- GWRC

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



0 50 100 200 Meters
 A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 1
 Land Ownership / Administration (River Mouth to Waihoanga Suspension Bridge
 Including Rangioru & Ngatoko Streams)

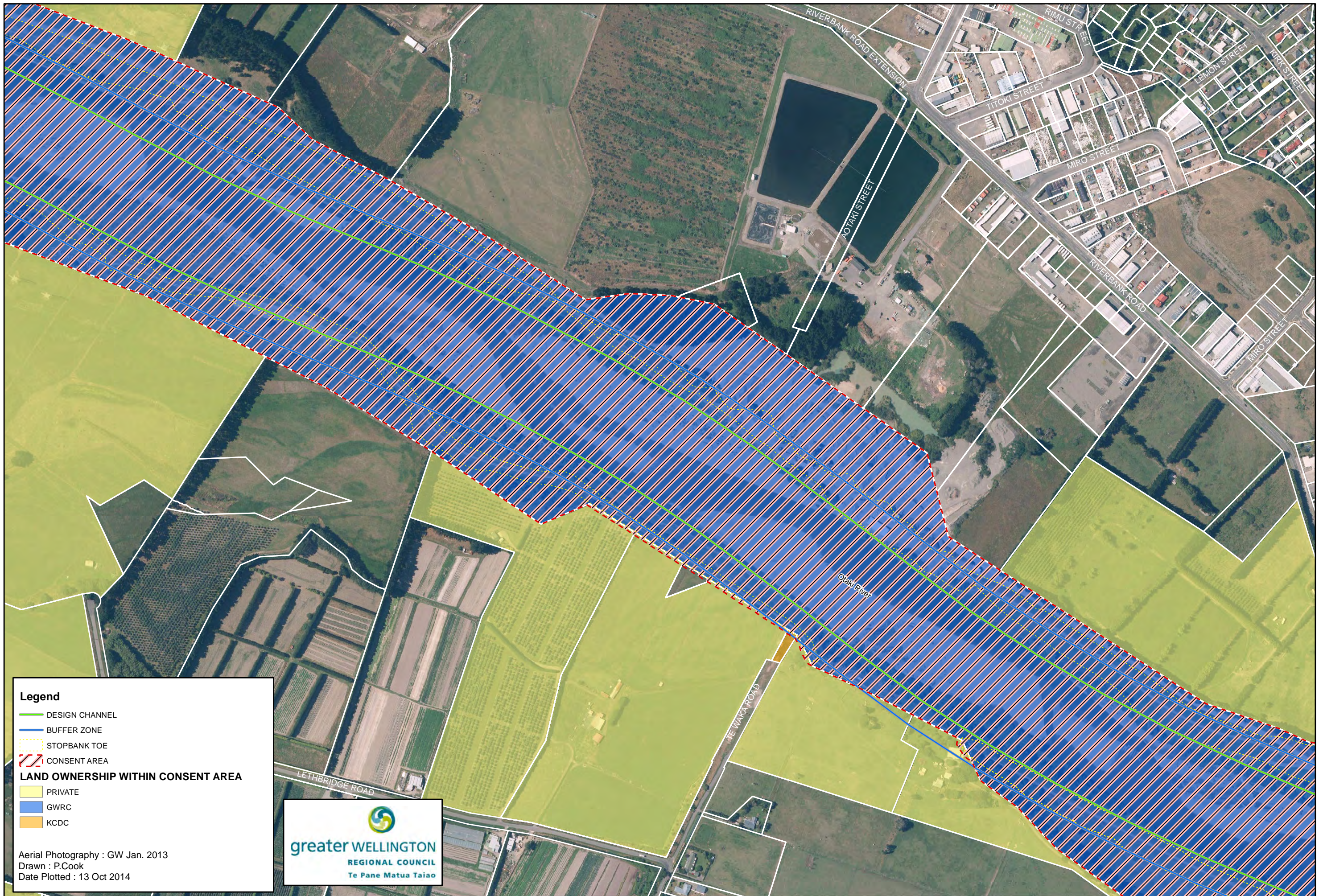
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 Ownership Information KCDC Rates Data July 2014 DWG No. **O-242 / 1**

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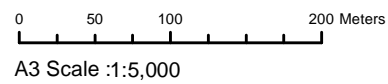
Legend

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

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- GWRC
- KCDC

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



OTAKI RIVER - CONSENT AREA - Map 2
 Land Ownership / Administration (River Mouth to Waihoanga Suspension Bridge)

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Legend

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

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- DOC
- GWRC
- KCDC
- LINZ
- NZTA

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

0 50 100 200 Meters
 A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 3
 Land Ownership / Administration (River Mouth to Waihoanga Suspension Bridge)

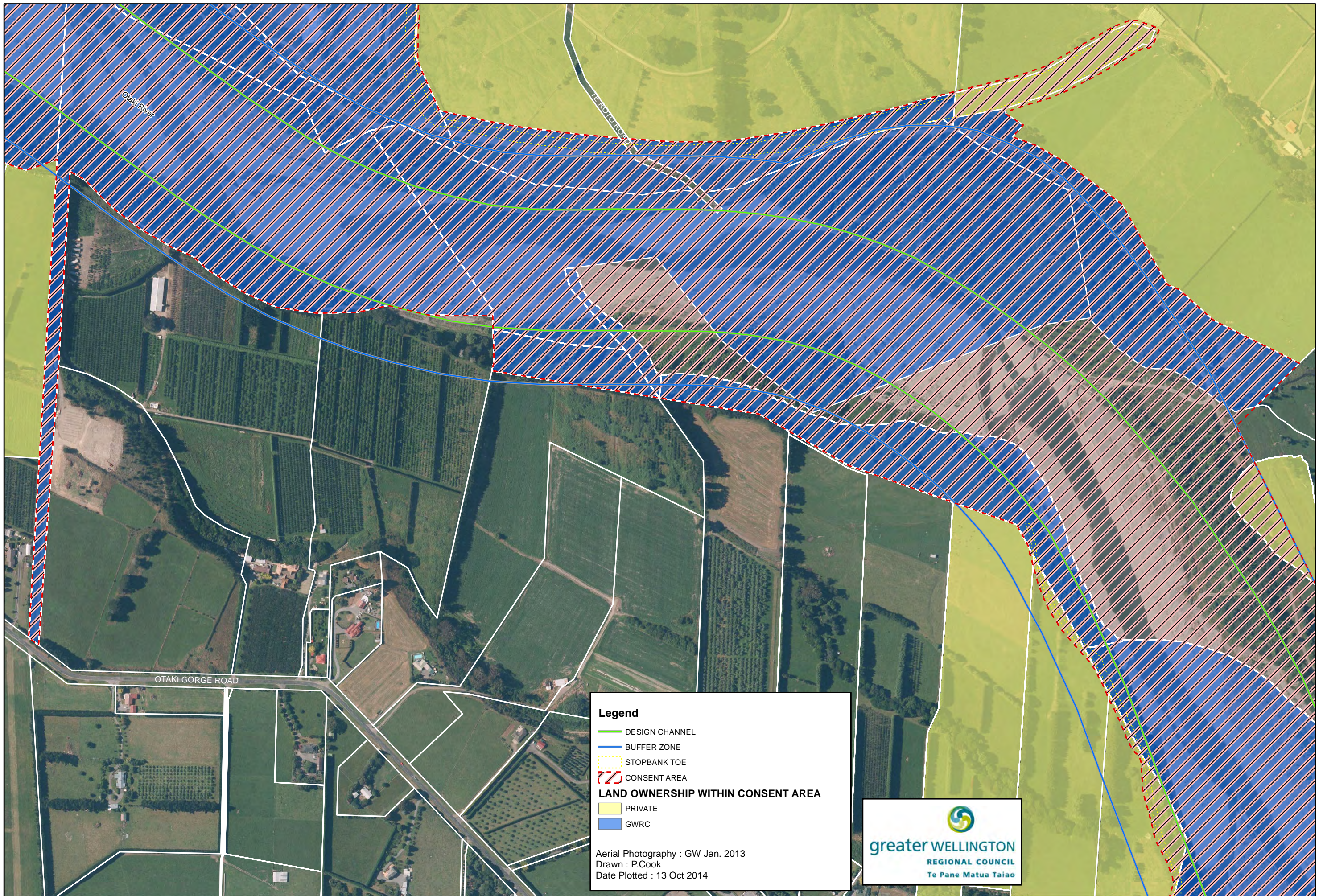
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Legend

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- BUFFER ZONE
- STOPBANK TOE
- CONSENT AREA

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- GWRC

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



0 50 100 200 Meters
 A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 4
 Land Ownership / Administration (River Mouth to Waihoanga Suspension Bridge)

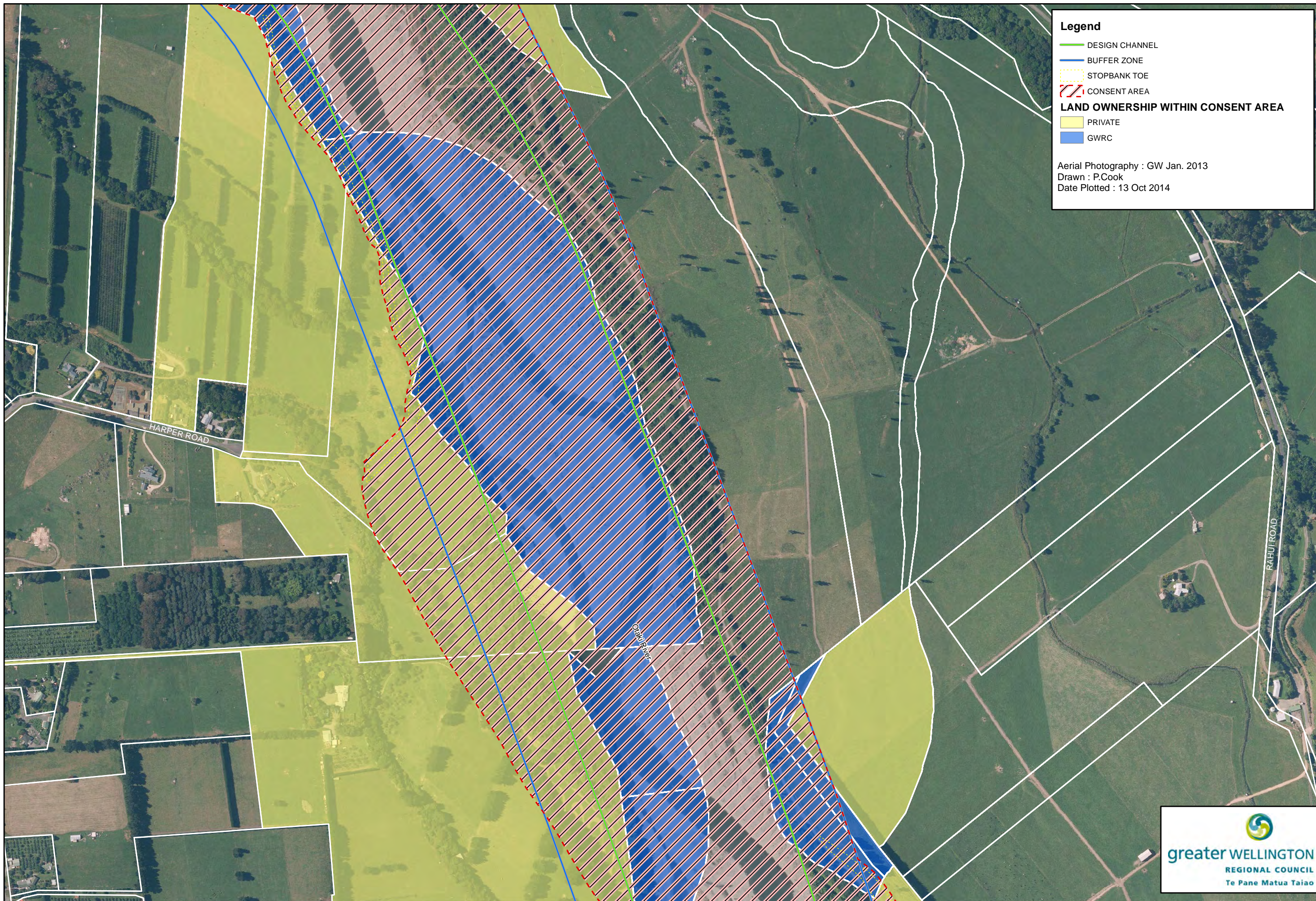
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Legend

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

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- GWRC

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

0 50 100 200 Meters
 A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 5
 Land Ownership / Administration (River Mouth to Waihoanga Suspension Bridge)

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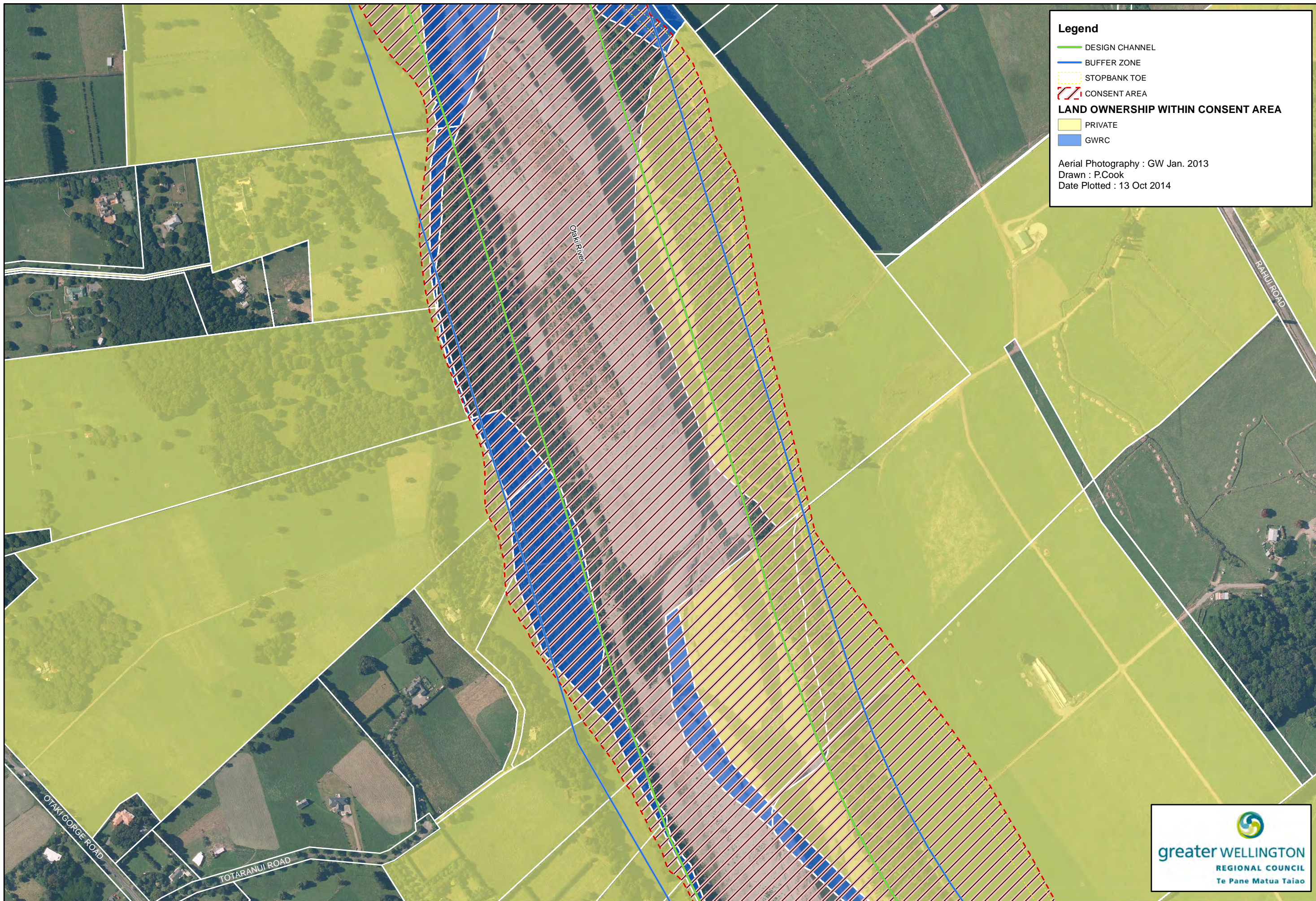
NOTE : Ownership Information KCDC Rates Data July 2014 DWG No. **O-242 / 5**



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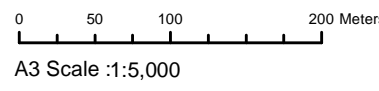
Legend

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

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- GWRC

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



OTAKI RIVER - CONSENT AREA - Map 6
 Land Ownership / Administration (River Mouth to Waihoanga Suspension Bridge)

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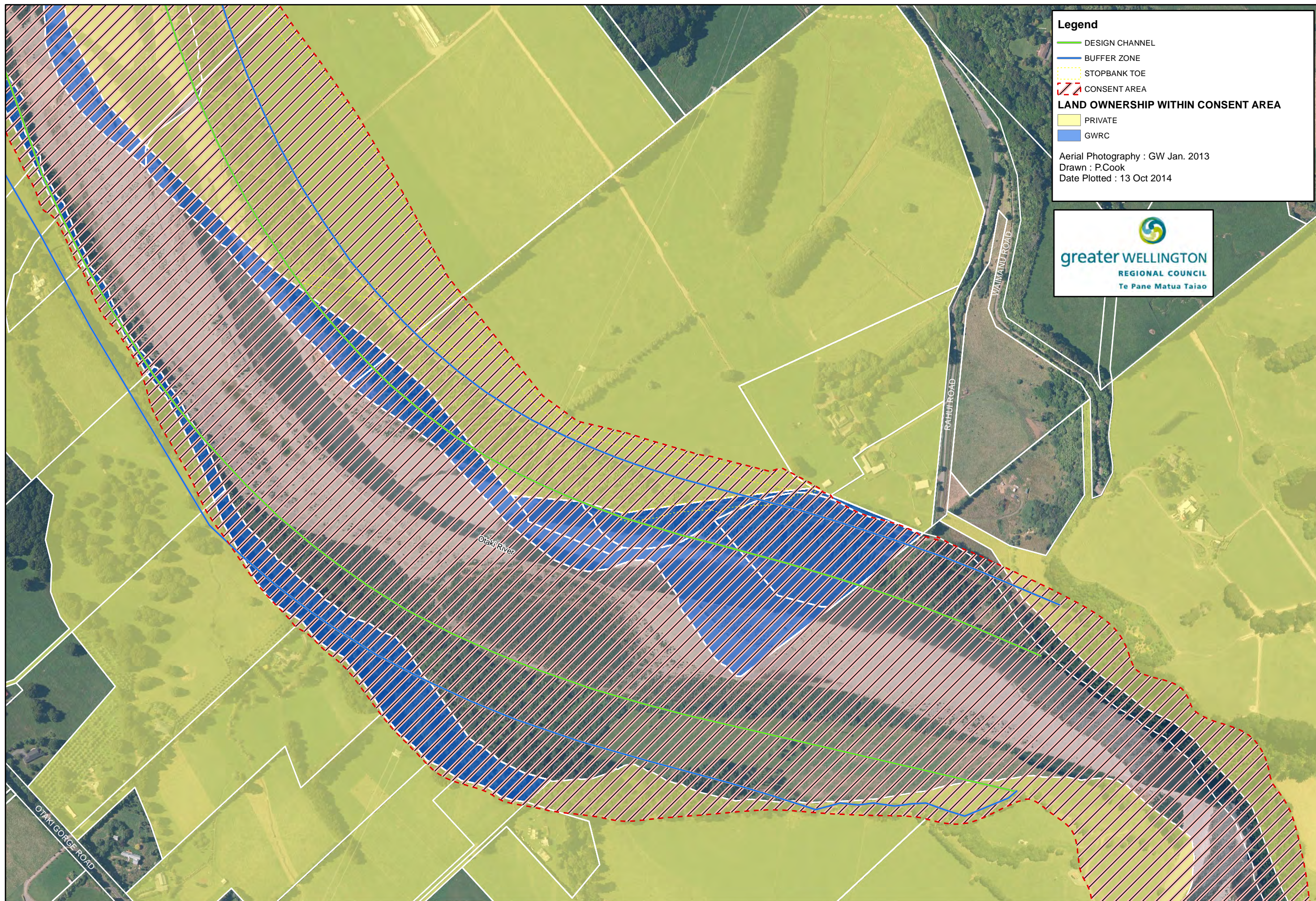
NOTE : Ownership Information KCDC Rates Data July 2014 DWG No. **O-242 / 6**



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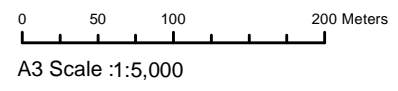
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- DESIGN CHANNEL
- BUFFER ZONE
- STOPBANK TOE
- CONSENT AREA

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- GWRC

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



OTAKI RIVER - CONSENT AREA - Map 7
 Land Ownership / Administration (River Mouth to Waihoanga Suspension Bridge)

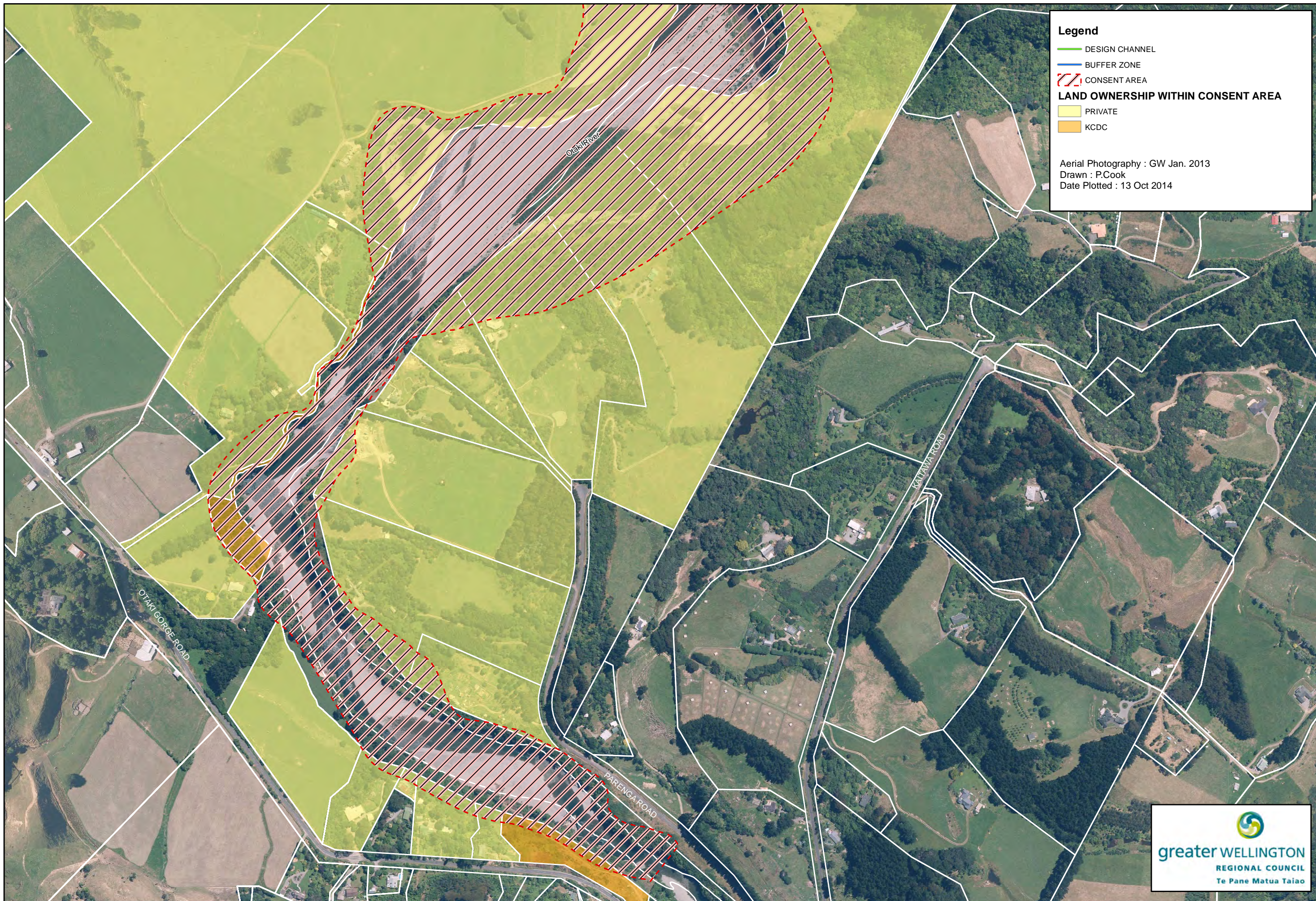
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Legend

- DESIGN CHANNEL
- BUFFER ZONE
- - - CONSENT AREA

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- KCDC

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

0 50 100 200 Meters
 A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 8
 Land Ownership / Administration (River Mouth to Waihoanga Suspension Bridge)

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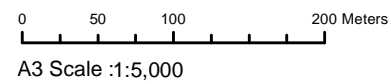


- Legend**
- DESIGN CHANNEL
 - BUFFER ZONE
 - CONSENT AREA
- LAND OWNERSHIP WITHIN CONSENT AREA**
- PRIVATE

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



Refer O-242 / 1



OTAKI RIVER - CONSENT AREA - Map 9
Land Ownership / Administration (Rangioru & Ngatoko Streams)

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Legend

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

LAND OWNERSHIP WITHIN CONSENT AREA

- PRIVATE
- GWRC

Aerial Photography : GW Jan. 2013
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0 50 100 200 Meters
 A3 Scale :1:5,000




OTAKI RIVER - CONSENT AREA - Map 10
 Land Ownership / Administration (Katihuku & Pahiko Streams)

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NOTE :
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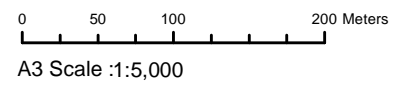
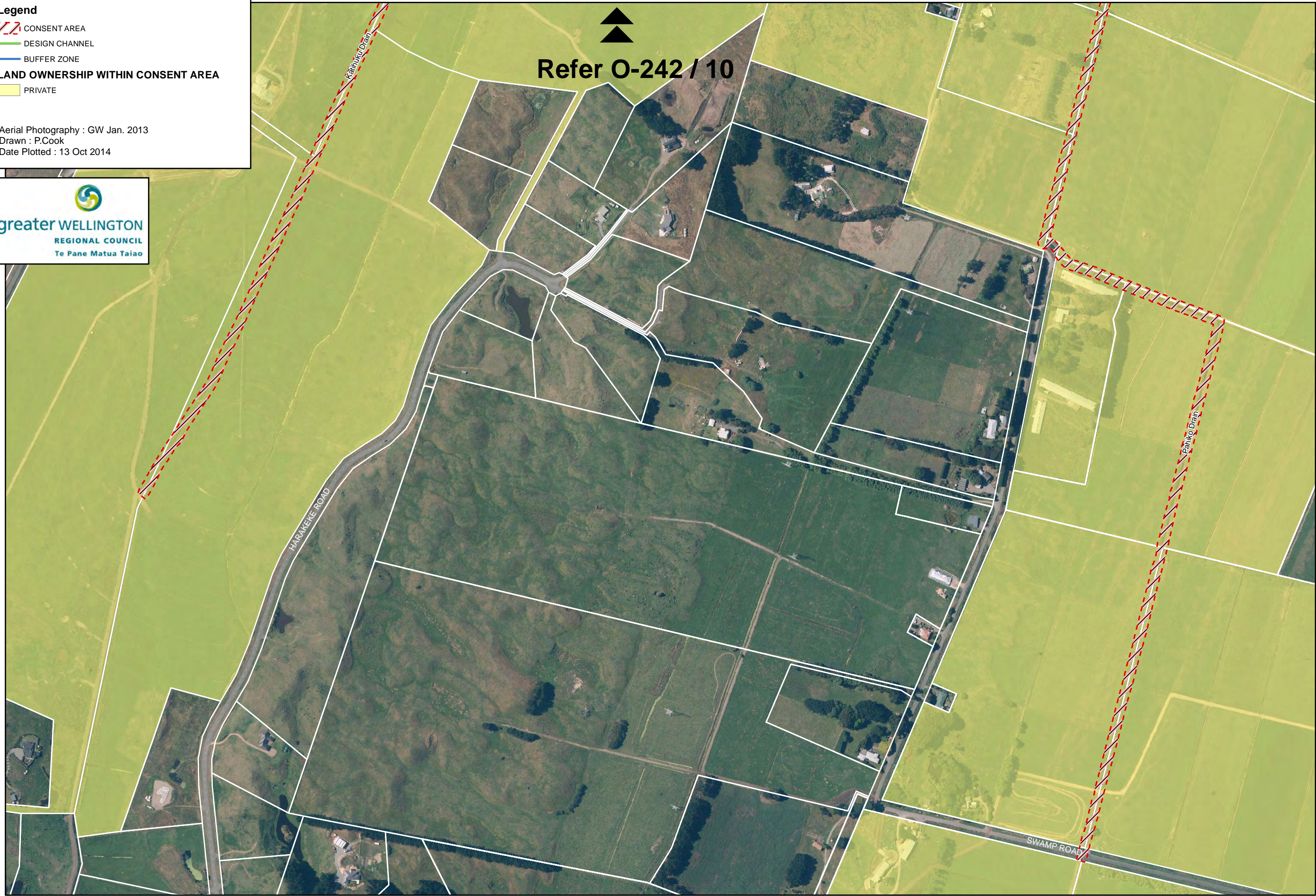
Legend

-  CONSENT AREA
-  DESIGN CHANNEL
-  BUFFER ZONE

LAND OWNERSHIP WITHIN CONSENT AREA

-  PRIVATE

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



OTAKI RIVER - CONSENT AREA - Map 11
Land Ownership / Administration (Katihuku & Pahiko Streams)

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NOTE :
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Refer O-243 / 9

LEGEND :

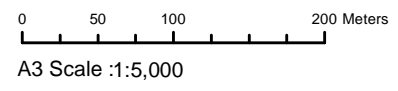
CONSENT AREA	Access Track	Drainage Channel	Massblock Wall
NCI Reach	Native Vegetation	Block Line	Reno Mattress
Trout Drift Dive Reach	Willows	Boulder Line	Rip Rap
GWRC River Cross-sections	Stopbank	Concrete Retaining Wall	Rock Line
River Buffer Zone	Floodgate	Culvert	Sewer
River Design Channel	Hydrology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

Refer O-243 / 2

Refer O-243 / 10

NCI Code : O9
Reach : ESTUARY
Reach Start : 20
Reach Finish : 120

NCI Code : O8
Reach :
Reach Start : 120
Reach Finish : 220



OTAKI RIVER - CONSENT AREA - Map 1a
GWRC Asset, Fish & Ecological Information (River Mouth to Waihoanga Suspension Bridge
Including Rangiuuru & Ngatoko Streams)

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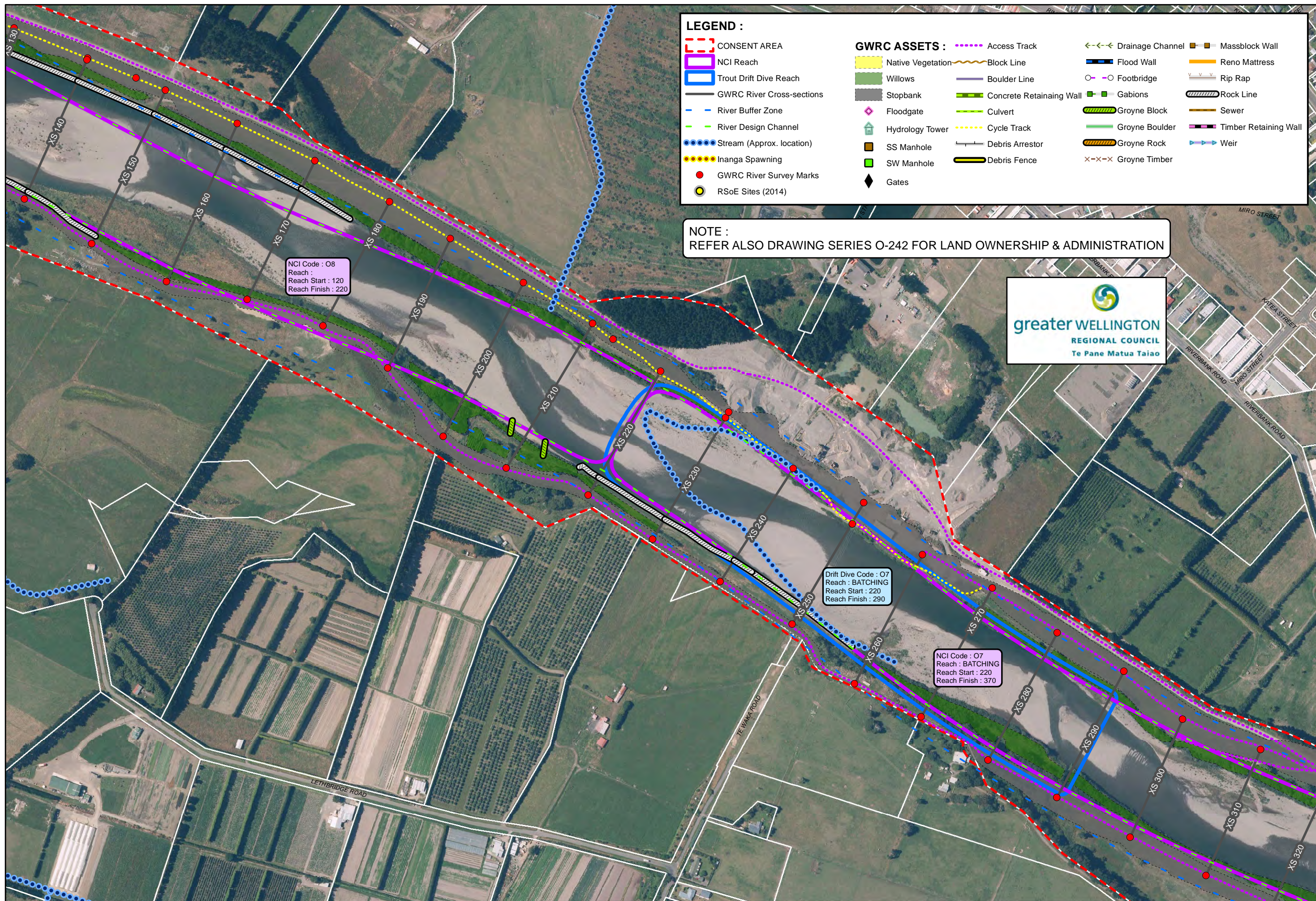
Drawn : P.Cook, Date Plotted : 7 July 2015
Aerials : GWRC 2013

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otaki Application Area March 2014 - Sheet 1a.mxd





LEGEND :

[Red dashed line]	CONSENT AREA	[Purple dashed line]	Access Track	[Green dashed line]	Drainage Channel	[Brown dashed line]	Massblock Wall
[Purple solid line]	NCI Reach	[Yellow solid line]	Block Line	[Blue solid line]	Flood Wall	[Orange solid line]	Reno Mattress
[Blue solid line]	Trout Drift Dive Reach	[Green solid line]	Boulder Line	[White circle]	Footbridge	[White dashed line]	Rip Rap
[Black line]	GWRC River Cross-sections	[Green dashed line]	Concrete Retaining Wall	[Green dashed line]	Gabions	[Black dashed line]	Rock Line
[Blue dashed line]	River Buffer Zone	[Green dashed line]	Culvert	[Green dashed line]	Groyne Block	[Black dashed line]	Sewer
[Green dashed line]	River Design Channel	[Green dashed line]	Cycle Track	[Green dashed line]	Groyne Boulder	[Black dashed line]	Timber Retaining Wall
[Blue dotted line]	Stream (Approx. location)	[Green dashed line]	Debris Restor	[Green dashed line]	Groyne Rock	[Blue dashed line]	Weir
[Yellow dotted line]	Inanga Spawning	[Green dashed line]	Debris Fence	[Green dashed line]	Groyne Timber		
[Red dot]	GWRC River Survey Marks	[Green diamond]	Gates				
[Yellow circle]	RSoE Sites (2014)						

NOTE :
REFER ALSO DRAWING SERIES O-242 FOR LAND OWNERSHIP & ADMINISTRATION



NCI Code : O8
Reach :
Reach Start : 120
Reach Finish : 220

Drift Dive Code : O7
Reach : BATCHING
Reach Start : 220
Reach Finish : 290

NCI Code : O7
Reach : BATCHING
Reach Start : 220
Reach Finish : 370

0 50 100 200 Meters
A3 Scale : 1:5,000

OTAKI RIVER - CONSENT AREA - Map 2a
GWRC Asset, Fish & Ecological Information (River Mouth to Waihoanga Suspension Bridge)

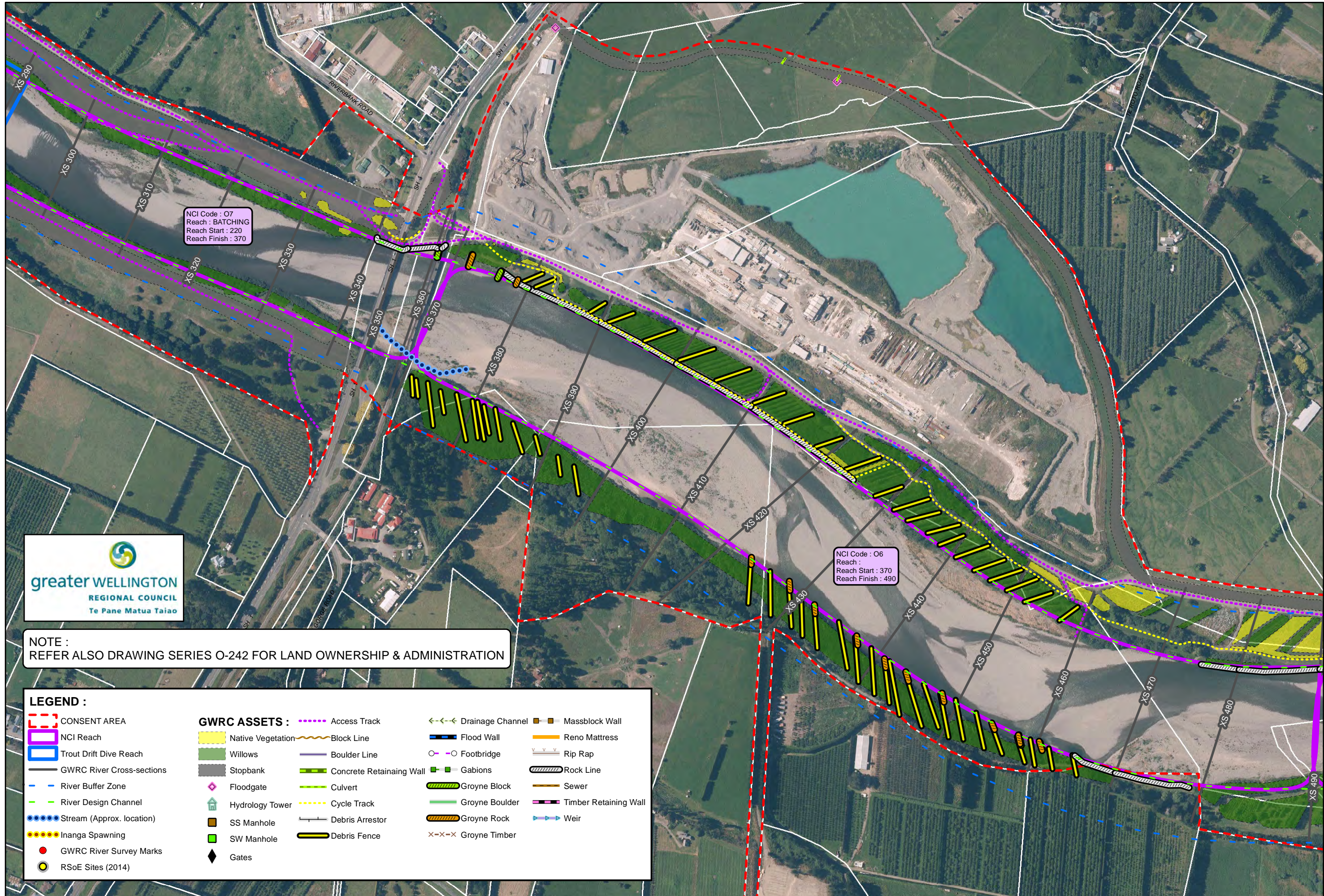
Drawn : P.Cook, Date Plotted : 7 July 2015
Aerials : GWRC 2013
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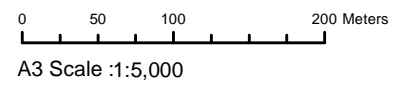
NCI Code : O7
Reach : BATCHING
Reach Start : 220
Reach Finish : 370

NCI Code : O6
Reach :
Reach Start : 370
Reach Finish : 490



NOTE : REFER ALSO DRAWING SERIES O-242 FOR LAND OWNERSHIP & ADMINISTRATION

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



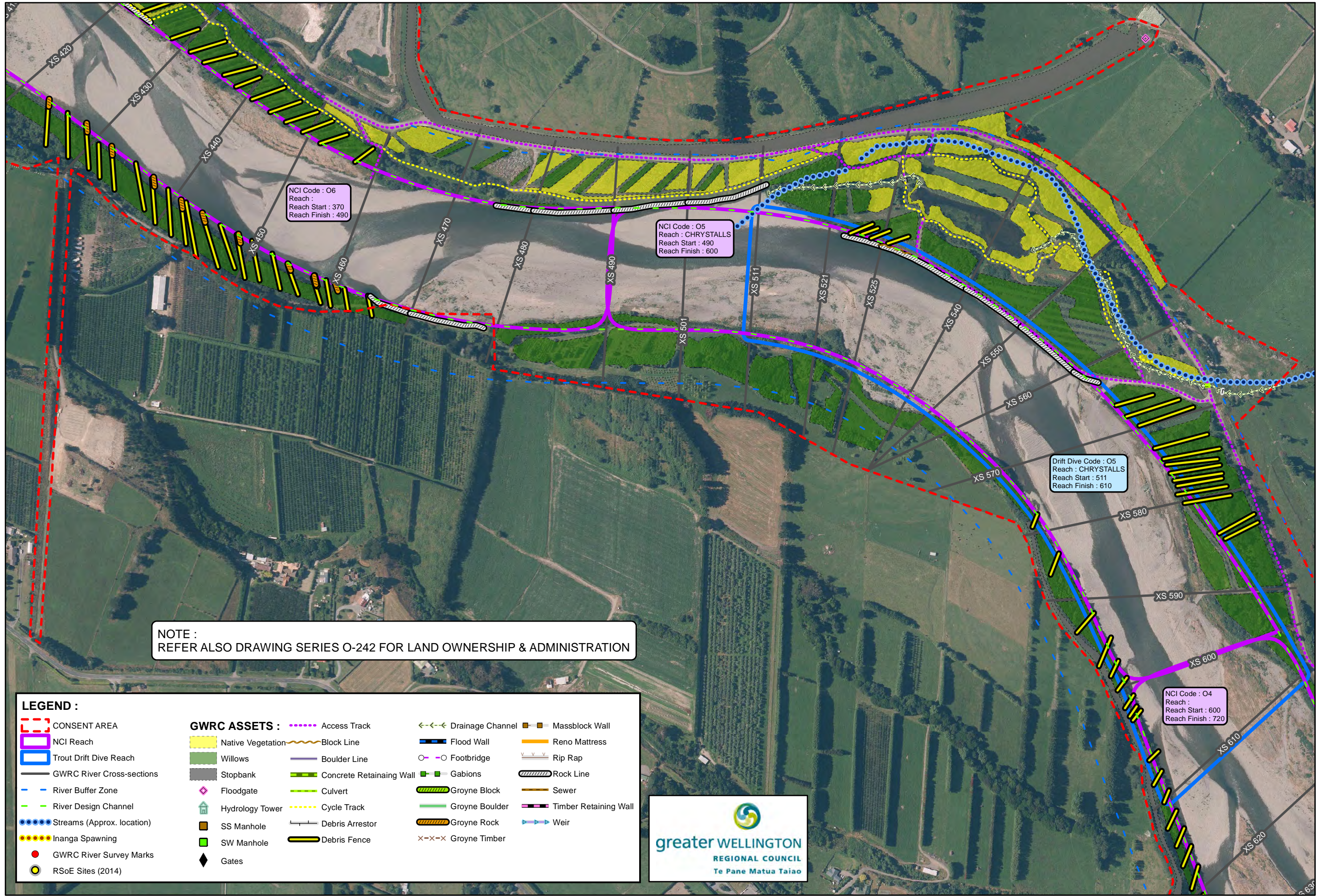
OTAKI RIVER - CONSENT AREA - Map 3a
GWRC Asset, Fish & Ecological Information (River Mouth to Waihoanga Suspension Bridge)

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

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DWG No. **O-243 / 3**





NOTE :
 REFER ALSO DRAWING SERIES O-242 FOR LAND OWNERSHIP & ADMINISTRATION

LEGEND :

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

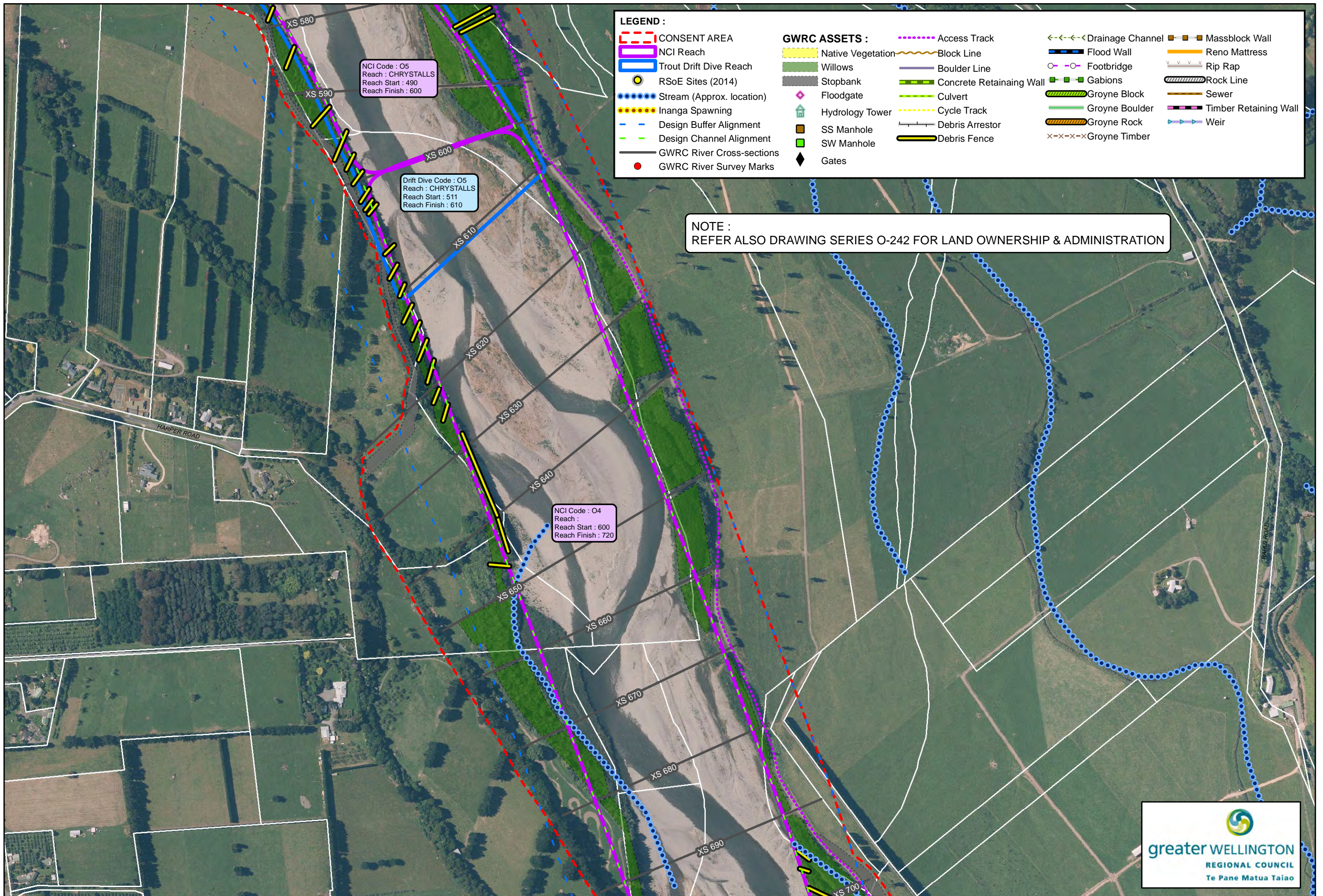


0 50 100 200 Meters
 A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 4a
 GWRC Asset, Fish & Ecological Information (River Mouth to Waihoanga Suspension Bridge)

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 Aerials : GWRC 2013
 DWG No. **O-243 / 4**





LEGEND :

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

NOTE :
REFER ALSO DRAWING SERIES O-242 FOR LAND OWNERSHIP & ADMINISTRATION

0 50 100 200 Meters
A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 5a
GWRC Asset, Fish & Ecological Information (River Mouth to Waihoanga Suspension Bridge)

Drawn : P.Cook, Date Plotted : 7 July 2015
Aerials : GWRC 2013
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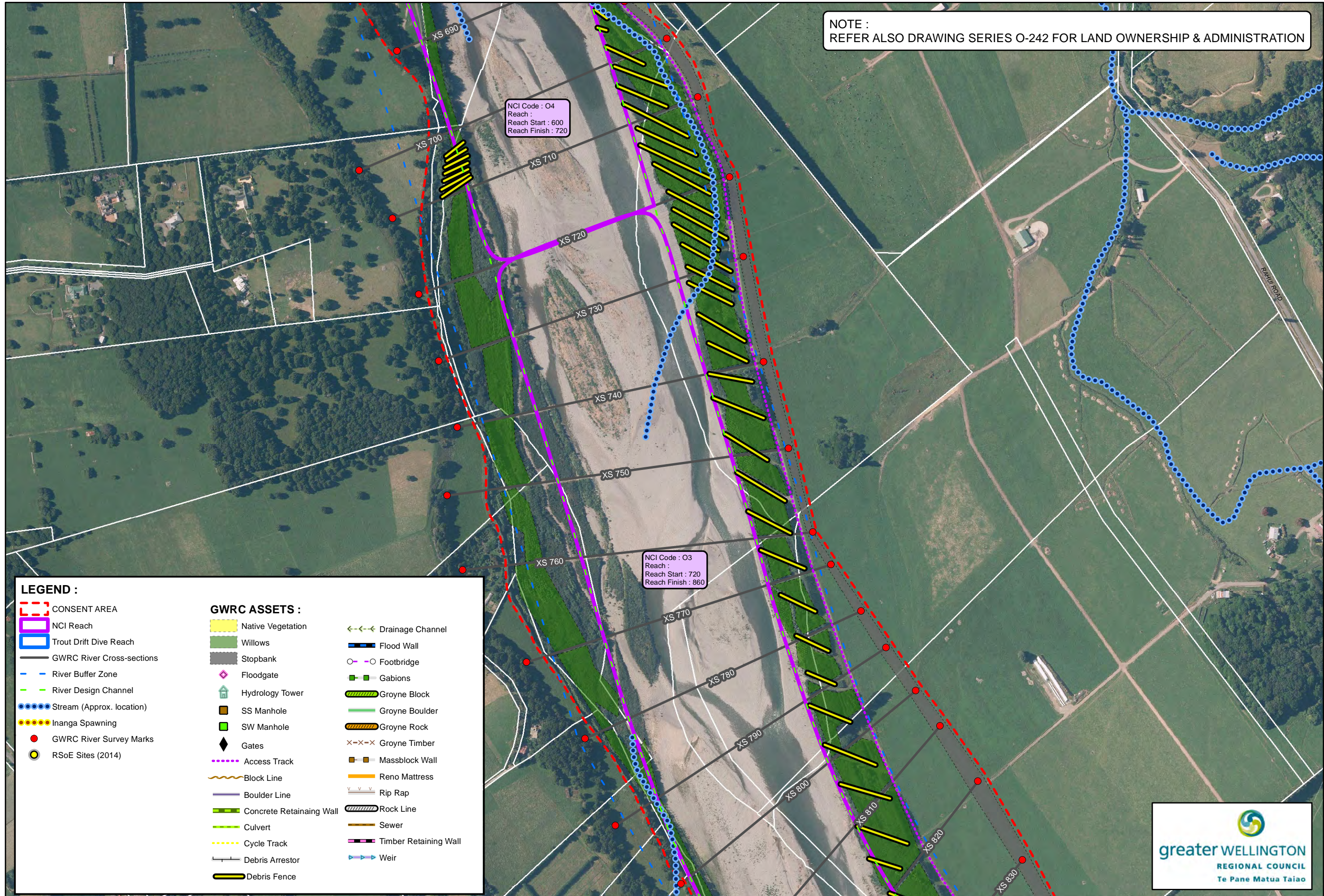
DWG No. **O-243 / 5**

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File ref : Otaki Application Area March 2014 - Sheet 5a.mxd



NOTE :
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LEGEND :

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

0 50 100 200 Meters
 A3 Scale :1:5,000

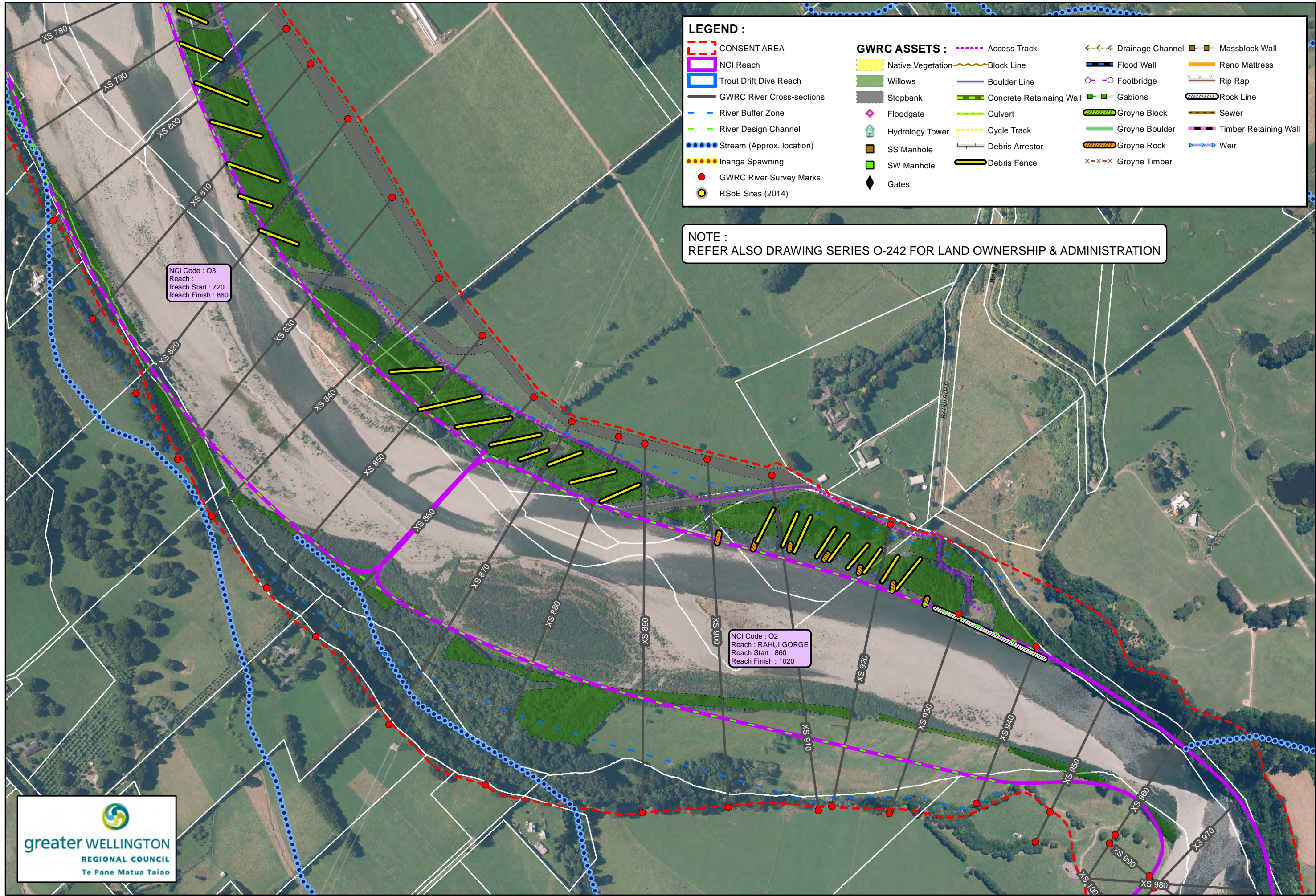
OTAKI RIVER - CONSENT AREA - Map 6a
 GWRC Asset, Fish & Ecological Information (River Mouth to Waihoanga Suspension Bridge)

Drawn : P.Cook, Date Plotted : 7 July 2015
 Aerials : GWRC 2013
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DWG No. **O-243 / 6**





LEGEND :

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

NOTE :
REFER ALSO DRAWING SERIES O-242 FOR LAND OWNERSHIP & ADMINISTRATION

NCI Code : O3
Reach :
Reach Start : 720
Reach Finish : 860

NCI Code : O2
Reach : RAHUI GORGE
Reach Start : 860
Reach Finish : 1020



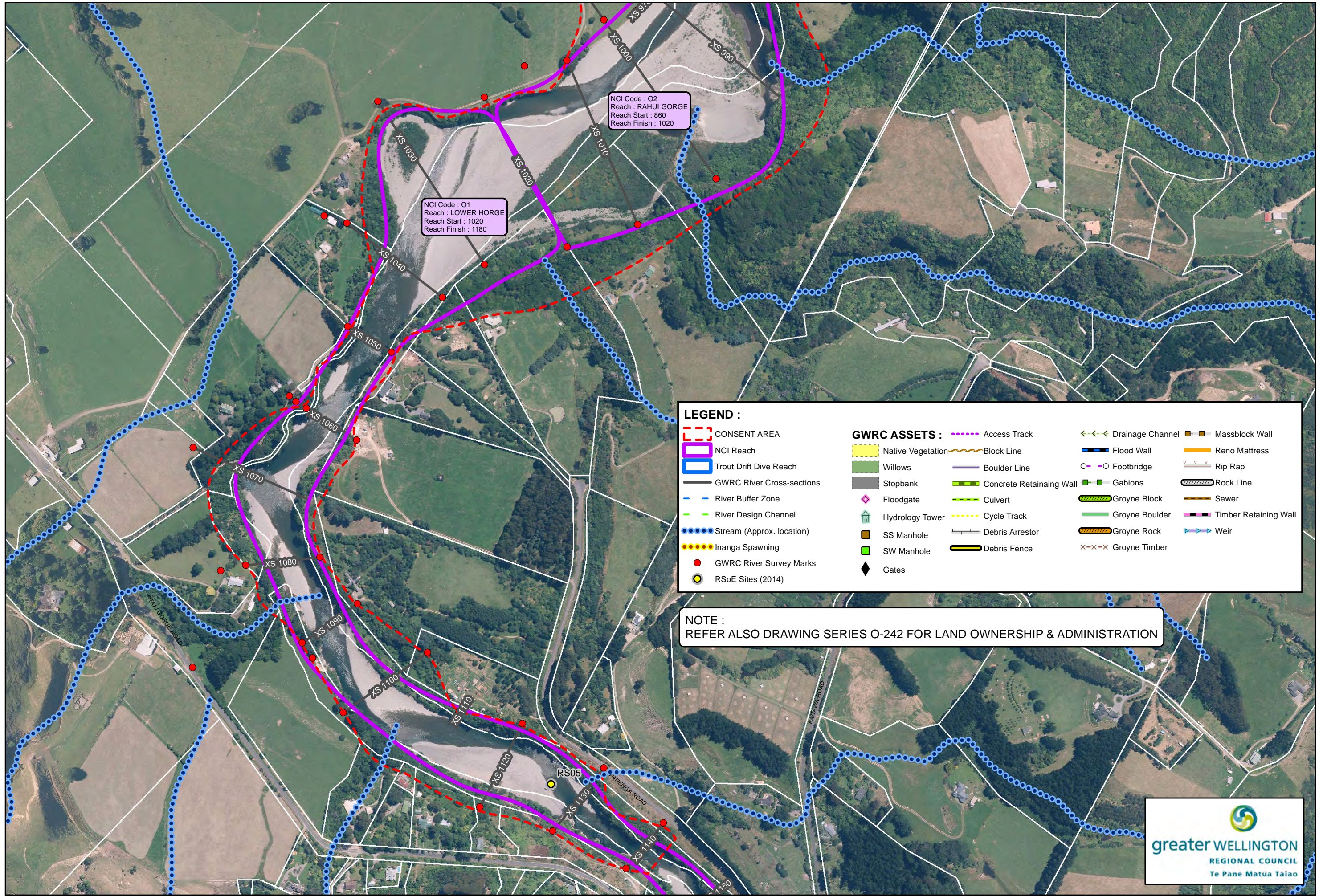
0 50 100 200 Meters
A3 Scale : 1:5,000

OTAKI RIVER - CONSENT AREA - Map 7a
GWRC Asset, Fish & Ecological Information (River Mouth to Waihoanga Suspension Bridge)

Drawn : P.Cook, Date Plotted : 7 July 2015
Aerials : GWRC 2013
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DWG No. **O-243 / 7**





NCI Code : O1
 Reach : LOWER HORGE
 Reach Start : 1020
 Reach Finish : 1180

NCI Code : O2
 Reach : RAHUI GORGE
 Reach Start : 860
 Reach Finish : 1020

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
GWRC River Cross-sections	Floodgate	Concrete Retaining Wall	Gabions	Rock Line
River Buffer Zone	Hydrology Tower	Culvert	Groyne Block	Sewer
River Design Channel	SS Manhole	Cycle Track	Groyne Boulder	Timber Retaining Wall
Stream (Approx. location)	SW Manhole	Debris Arrestor	Groyne Rock	Weir
Inanga Spawning	Gates	Debris Fence	Groyne Timber	
GWRC River Survey Marks				
RSoE Sites (2014)				

NOTE :
 REFER ALSO DRAWING SERIES O-242 FOR LAND OWNERSHIP & ADMINISTRATION

0 50 100 200 Meters
 A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 8a
 GWRC Asset, Fish & Ecological Information (River Mouth to Waihoanga Suspension Bridge)

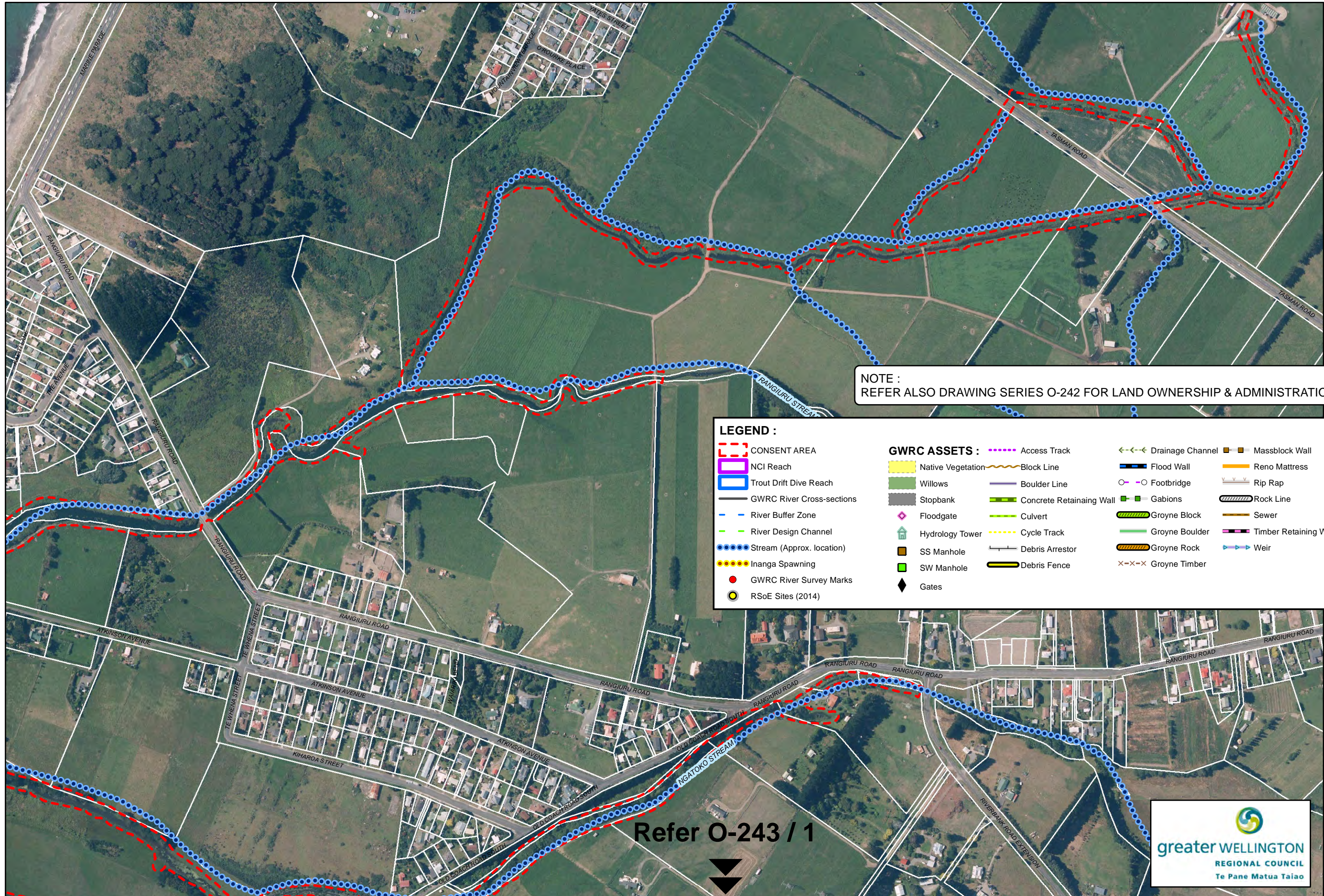
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DWG No. **O-243 / 8**





NOTE : REFER ALSO DRAWING SERIES O-242 FOR LAND OWNERSHIP & ADMINISTRATION

LEGEND :

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

Refer O-243 / 1

0 50 100 200 Meters
 A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 9a
 GWRC Asset, Fish & Ecological Information (Rangioru & Ngatoko Streams)

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

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DWG No. **O-243 / 9**

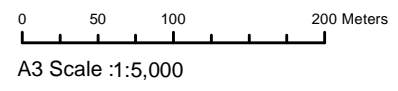
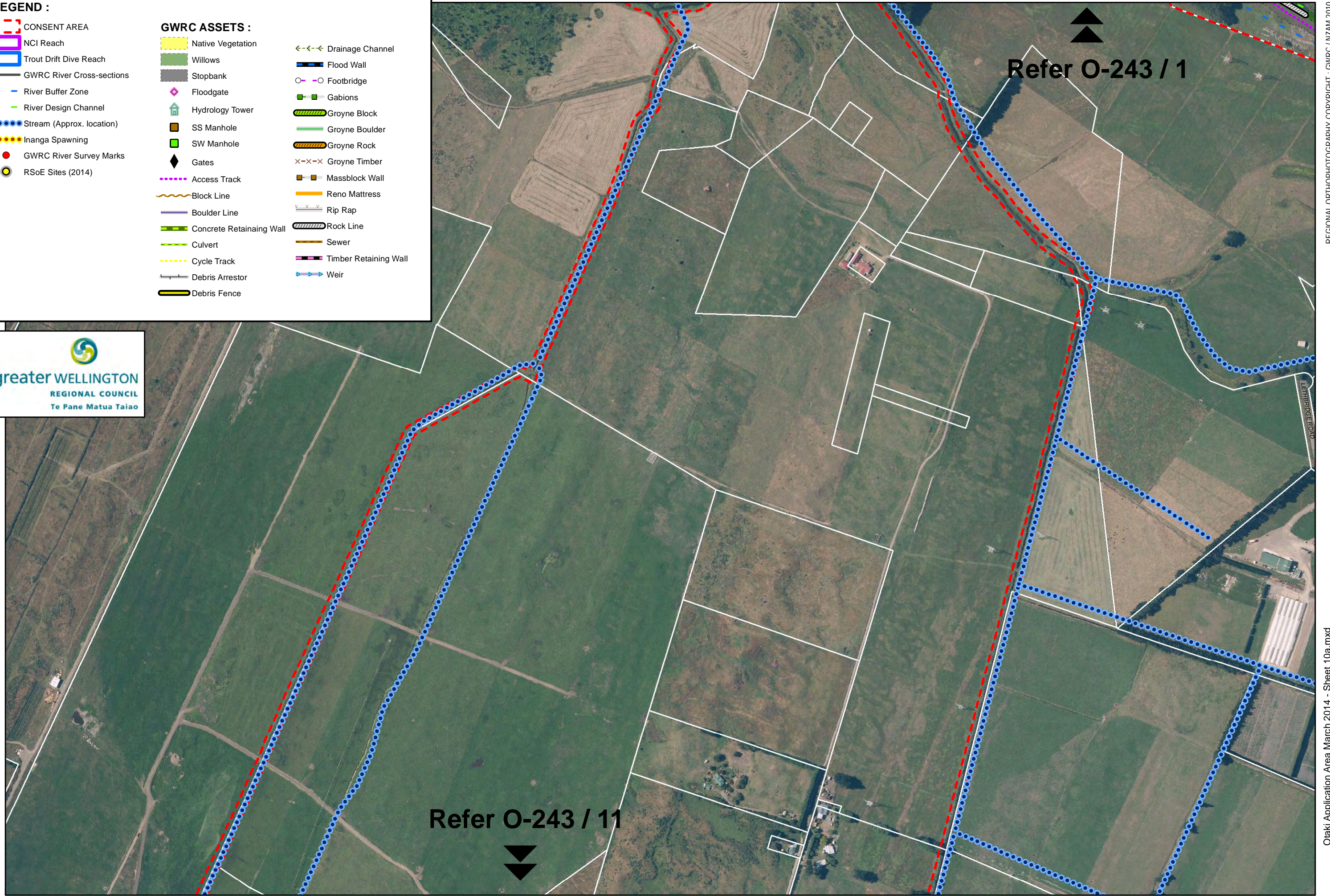


LEGEND :

- CONSENT AREA
- NCI Reach
- Trout Drift Dive Reach
- GWRC River Cross-sections
- River Buffer Zone
- River Design Channel
- Stream (Approx. location)
- Inanga Spawning
- GWRC River Survey Marks
- RSoE Sites (2014)

GWRC ASSETS :

- Native Vegetation
- Willows
- Stopbank
- Floodgate
- Hydrology Tower
- SS Manhole
- SW Manhole
- Gates
- Access Track
- Block Line
- Boulder Line
- Concrete Retaining Wall
- Culvert
- Cycle Track
- Debris Arrestor
- Debris Fence
- Drainage Channel
- Flood Wall
- Footbridge
- Gabions
- Groyne Block
- Groyne Boulder
- Groyne Rock
- Groyne Timber
- Massblock Wall
- Reno Mattress
- Rip Rap
- Rock Line
- Sewer
- Timber Retaining Wall
- Weir



OTAKI RIVER - CONSENT AREA - Map 10a
GWRC Asset, Fish & Ecological Information (Katihuku & Pahiko Streams)

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

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OTAKI Application Area March 2014 - Sheet 10a.mxd



Refer O-243 / 10

LEGEND :

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

0 50 100 200 Meters
A3 Scale :1:5,000

OTAKI RIVER - CONSENT AREA - Map 11a
GWRC Asset, Fish & Ecological Information (Katihuku & Pahiko Streams)

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