

## Land Information Memorandum

### Application

Paul Sumich	No.	L200676
C/- Deb Smith Harcourts Whangarei	Application date	23/12/2020
PO Box 5030	Issue date	14/01/2021
Whangarei 0140	Phone	09 430 1000
	Fax	

Please Note: This LIM report contains information for the entire legal description below

#### Property

Valuation No.	0115001001
Location	356 Bull Road, Maungaturoto
Legal Description	LOT 2 DP 441958
Owner	McMath Teri Moana : McMath Mark Anthony
Area (hectares)	5.4560

#### Rates

Government Valuation	
Land	\$185,000
Capital Value	\$620,000
Improvements	\$435,000
Current Rates Year 2020 to 2021	
Annual Rates	\$1,890.20
Current Instalment	\$ 472.55
Current Year - Outstanding Rates	\$ 472.55
Arrears for Previous Years	\$ 0.00
Next Instalment Due	20/02/2021.

Note: Rates are charged in four instalments for the period commencing 1 July and ending 30 June each year.

Please refer to the Kaipara District Council Long Term Plan 2018/2028 and to the Kaipara District Council Development Contribution Policy 2018 which can be found at the Council website <a href="https://www.kaipara.govt.nz">www.kaipara.govt.nz</a>.

## Planning/Resource Management

Zoning:	Kaipara District Plan 2013:	Rural.	See attached information regarding the District
	Plan.		

Full details of the zone requirements are found in the current District Plan. Relevant zone ordinance can be found at the Council website

27/04/11 RESOURCE CONSENT 110021 : Proposed subdivision of Lot 1 DP 181404 into two lots. **Created DP 441958.** Section 224 Issued 17/07/12 : GRANTED UNDER DELEGATED AUTHORITY 4/04/11

31/07/96 RESOURCE CONSENT 960084 : RURAL SUBDIVISION Section 224 Issued 6/10/97 : GRANTED UNDER DELEGATED AUTHORITY 18/07/96 (Found on related property: 0115001000) RESOURCE CONSENT 952335 : SUBDIVISION OF 1 LOT FROM ALLOT 238 MARERETU ALLOTS 228 SW 227 M227 NE227 SW226 M226 NE226 MATAKOHE PSH Decision Notified 14/08/78 : APPROVED BY COUNCIL 8/08/78 (Found on related property: 0115000700)

No other information located.

## Building

20/10/12	BUILDING CONSENT 120877 : Construct new home with effluent and stormwater :
	Code Compliance Certificate issued 20/05/13. Copy of Suitability Report attached.
25/07/12	BUILDING CONSENT 120741 : Construct farm building :Code Compliance Certificate issued 10/10/12.
No other in	formation located.

## Sewer and Water

SewerNot availableStormwaterNo information located.WaterNot available.Any on-sitewastewater system for the property may need to comply with Council inspection and<br/>maintenance regime under the Councils Wastewater Drainage Bylaw 2016. This bylaw is located<br/>on KDC website.Copy of AsBuilt Drainage plan attached.No other information located.

## Land and Building Classifications

No information located.

Refer to copy of map from District Plan for other classifications in the immediate vicinity.

## **Compliance with Swimming Pool Bylaw**

No pool registered to this property.

## Land Transport Requirements

No information located.

## **Special Land Features**

Part within Flood Susceptibility Area – **Copy Map 2 attached.** No other information located.

## Licences/Environmental Health

No information located.

## **Network Utility Operators**

Information related to the availability of supply, authorisations etc (eg, electricity or gas) can be obtained from the relevant Network Utility Operator.

## **Other Information**

No title search has been done on this property.

#### Notes

- 1. Final inspections on buildings were not mandatory prior to 1 January 1993. Should an evaluation of the building be required an independent qualified person should be consulted. In the interests of safety, an inspection of any fireplace within the dwelling may be requested of Council at any time, after paying the appropriate fee.
- 2. Every care has been taken to ensure that the information supplied by the Council on this form is accurate. The Council relies on information available to it, and will not be held responsible for incomplete or inaccurate information provided, or for any errors or omissions made in good faith.
- 3. Please note that the property was neither inspected nor visited in the course of the preparation of this Land Information Memorandum.
- 4. Other information may be held by other authorities, for example the Northland Regional Council or Heritage New Zealand.
- 5. This Land Information Memorandum is a disclosure of information (which may be historical) held by the Council at the time of application and is subject to change.
- 6. Any enquiry not accompanied by a fee will be invoiced separately. (All prices are GST inclusive.)
- 7. No Certificate of Title was supplied with this application for this Land Information Memorandum. The Council therefore does not warrant that the information supplied is related to the correct property.
- 8. Any Resource or Building consents run with the land; if the project is incomplete, there may be existing/additional charges to pay for which the new owner will be liable.
- 9. A Development Contribution and or Financial Contribution may be payable if development is carried out, the effect of which is to require new or additional assets or assets of increased capacity and as a consequence Council incurs capital expenditure to provide appropriately for those assets and that capital expenditure is not otherwise funded or provided for. Future rating policies are outlined in Council's Long Term Plan 2018-2028.

Name:

Date: 14/01/2021.



#### KAIPARA DISTRICT COUNCIL

#### Performance Standards of the Kaipara District Plan 2013

To view the performance standards (rules) for each zone please refer to the relevant chapter of the

Kaipara District Plan 2013:

Rural - Chapter 12

Residential - Chapter 13

Business: Commercial and Industrial - Chapter 14

Maori Purposes: Maori Land - Chapter 15A

Maori Purposes: Treaty Settlement Land - Chapter 15B

Estuary Estates – Chapter 16

All Zones - Chapter 10 Network Utilities and Chapter 11 Transport Network

#### How can I view the Kaipara District Plan 2013?

If you have access to the internet and want access to the most up to date information, visit the website

#### www.kaipara.govt.nz

If you do not have access to a computer you can visit one of the following locations to view a

hard copy of the Plan:

Venue	<b>Opening Hours</b>	
<b>Kaipara District Council Office - Dargaville</b> 42 Hokianga Road Dargaville Telephone (09) 439 7059	Monday - Tuesday Wednesday Thursday - Friday	8.00am to 4.30pm 9.00am to 4.30pm 8.00am to 4.30pm
<b>Kaipara District Council Office - Mangawhai</b> Unit 5, The Hub 6 Molesworth Drive Telephone (09) 431 3161	Monday - Tuesday Wednesday Thursday - Friday	8.30am to 4.30pm 9.00am to 4.30pm 8.00am to 4.30pm
<b>Kaiwaka Library</b> Corner State Highway 1 and Kaiwaka Mangawhai Road Kaiwaka Telephone: (09) 431 2539	Sunday -Tuesday Wednesday – Saturday	Closed 10:00am to 2:00pm
<b>Maungaturoto Library</b> Centennial Building Hurndall Street Maungaturoto Telephone: (09) 431 8811	Monday to Thursday Friday Saturday Sunday	10:30am to 12:00 noon 10:30am to 4:00 pm 10:00am to 1:00pm Closed
<b>Paparoa Library</b> Brook House State Highway 12 Paparoa Telephone: (09) 439 2216	Monday Wednesday Friday Tuesday / Thursday Saturday / Sunday	1:30pm to 4:30pm 10:00am to 12:00 noon 9:30am to 1:00pm Closed Closed
<b>Ruawai Library</b> Ruawai College State Highway 12 Ruawai Telephone: (09) 439 2216	Monday to Friday Saturday / Sunday	8:45am to 3:15pm Closed
<b>Dargaville Library</b> Corner Poto and Normanby Streets Dargaville Telephone: (09) 439 3150	Monday to Friday Saturday Sunday	9.30am to 5.30pm 9.30am to 12.30pm Closed

## Map Series One - Land Use Legend State Highway Railway Bridge or Causeway Unformed Road Cadastral Parcel Boundary Sea, Lakes and Rivers Zones Each Zone has a Chapter in the Plan Rural (Chapter 12) Kallwillaker Business: Commercial (Chapter 14) Business: Commercial (Chapter 14)

Business: Industrial (Chapter 14)

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Maori Purpose: Maori Land (Chapter 15A)

2013

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Residential (Chapter 13)

Harbour

West Coest

Maori Purpose: Treaty Settlement Land (Chapter 15B)

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Estuary Estates (Chapter 16)

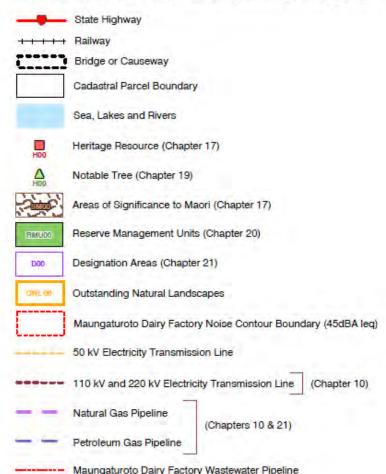
#### Overlays (Chapter 4)

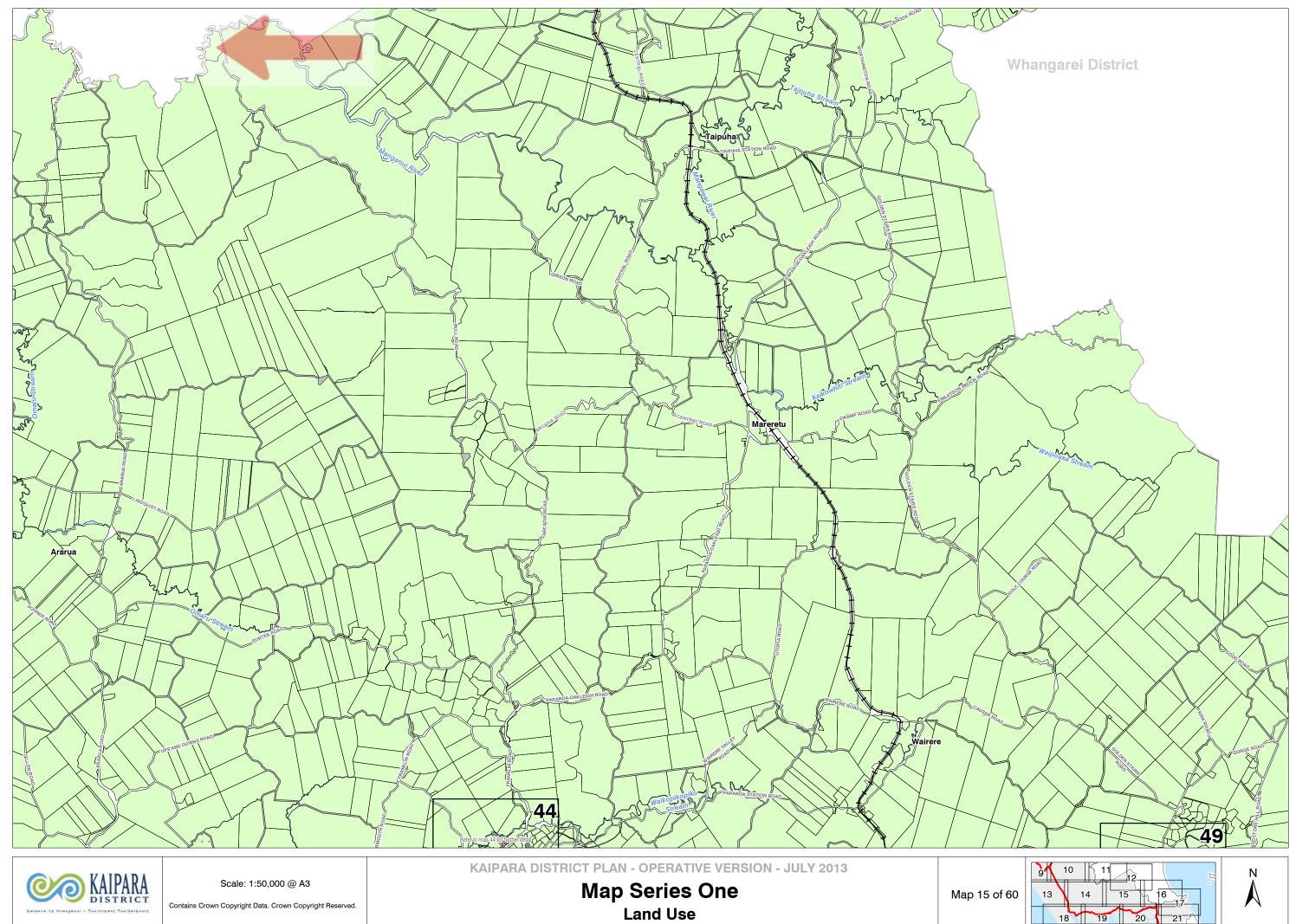
Rules for Overlays are in each Zone Chapter. Look at the Zoning under the Overlay





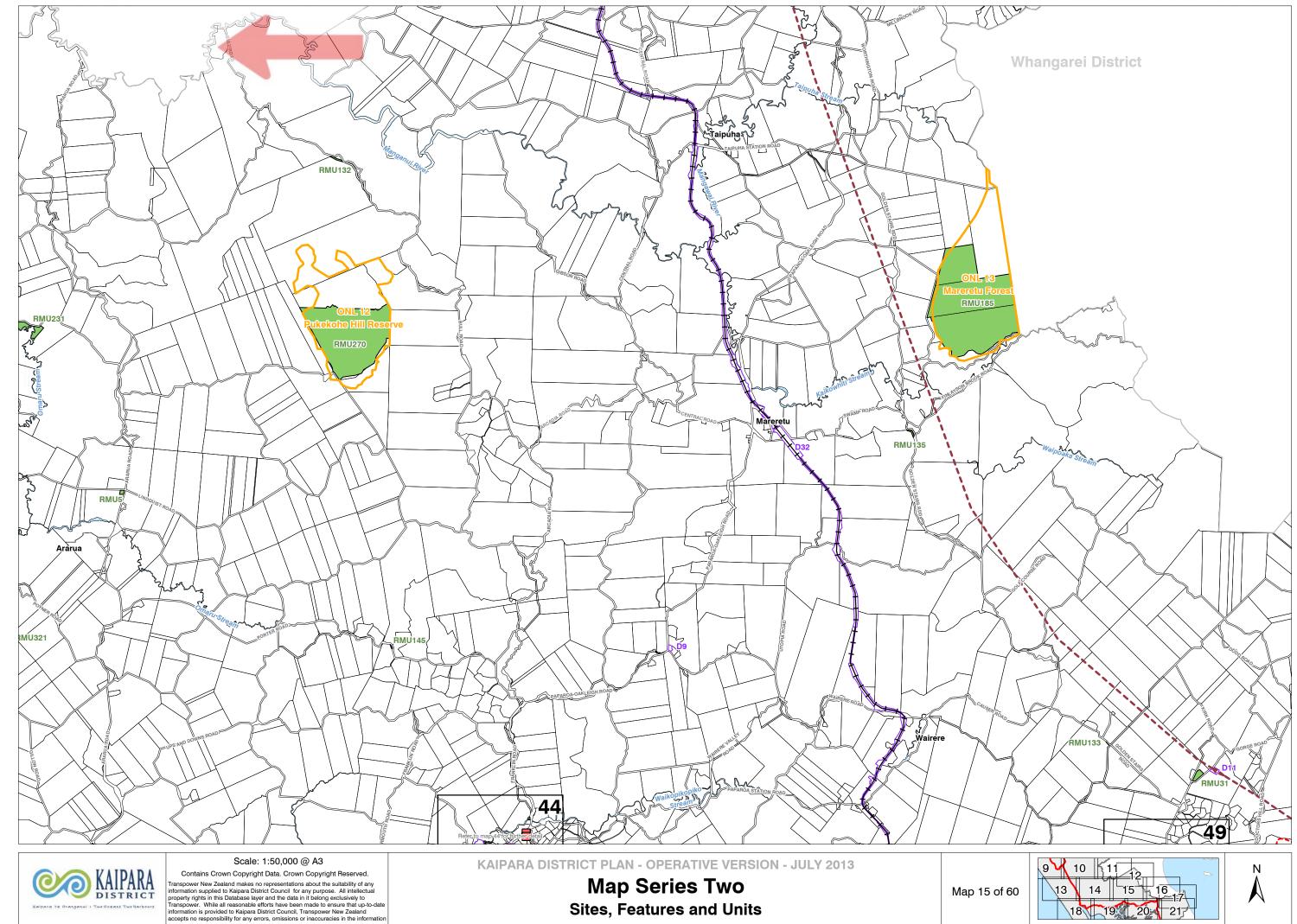
#### Map Series Two - Sites, Features and Units Legend







Land Use





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Valuation ID

Rates Information - 2020/21

0115001001

iew in Google Maps OT 2 DP 441958		
OT 2 DP 441958		
50844		
Lifestyle: Single Unit	Category	LI193
000	Category Group	Lifestyle Improved with
perty is not leased. Owner is also occupier.		Residential
vate: Individual		Accommodation
eable	ward	4
property - Not Applicable, Not apportionment	Region	1
	000 perty is not leased. Owner is also occupier. vate: Individual eeable	000 Category Group perty is not leased. Owner is also occupier. vate: Individual Ward reable Region

#### Valuations

Area (Hectares)	5.4560	Land Value	185,000
Improvements	435,000	Capital Value	620,000
Nature of Improvements	DWG FG OBS OI		
Valuation Date	1/09/17		

#### Rates for Current Year - 2020/21

Туре	Description (Basis)	Factor	Amount \$
002	Uniform Annual General Charge - Rating Unit	1.00	764.00
231	General Rate Other - (L)	185,000.00	796.41
	** Kaipara District Council Sub-Total		1,560.41
250	NRC Targeted Council Services Rate - (U)	1.00	125.27
251	NRC Targeted Land Management Rate - (L)	185,000.00	18.41
252	NRC Targeted Freshwater Management Rate - (L)	185,000.00	39.53
253	NRC Pest Management Rate - (U)	1.00	63.56
254	NRC Targeted Flood Infrastructure Rate - (U)	1.00	27.05
255	NRC Targeted Civil Defence & Hazard Management Rate - (U)	1.00	22.67
256	NRC Targeted Emergency Services Rate - (U)	1.00	11.71
257	NRC Targeted Regional Sporting Facilites Rate - (U)	1.00	16.76
258	NRC Targeted Regional Infrastructure Rate - (L)	185,000.00	4.83
	** Regional Council Sub-Total		329.79
	Total Rates Levied 2020/21		1,890.20
	(GST on Rates Levied)		246.55
	Rates Last Year 2019/20		1,804.89
	Last Year's Final Instalment		451.22

#### Rates Last Year 1,804.89 Instalments YTD 945.10 Current Instalment 472.55

History

Year	Land Value	Capital Value	Annual Rates
2019/20	185,000	620,000	1,804.89
2018/19	185,000	620,000	1,700.23
2017/18	98,000	420,000	1,358.36
2016/17	98,000	420,000	1,347.05
2015/16	98,000	420,000	1,320.85
2014/15	105,000	425,000	1,315.75
2013/14	105,000	425,000	1,295.03
2012/13	116,000	370,000	1,153.65
2011/12	165,000	435,000	893.90
2010/11	165,000	435,000	823.50

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# Title Plan - LT 441958

	LT 441958			
Surveyor Reference	12386			
Surveyor	Phillip John Lash			
Survey Firm	Reyburn & Bryant 1999 L	.td		
Surveyor Declaratio	n			
Survey Details				
Dataset Descriptio	n Lots 1 and 2 being a Subd	ivision of Lot 1 DP 181404.		
Status	Initiated			
Land District	North Auckland	Survey Class	Class B	
Submitted Date		Survey Approval	l Date	
		Deposit Date		
Territorial Authorit	ies			
Kaipara District				
Comprised In				
Comprised In CT NA112C/448				
-				
CT NA112C/448		Parcel Intent	Area	CT Reference
CT NA112C/448 Created Parcels	n 441958	<b>Parcel Intent</b> Fee Simple Title	<b>Area</b> 3.8245 Ha	<b>CT Reference</b> 550843
CT NA112C/448 Created Parcels Parcels				
CT NA112C/448 Created Parcels Parcels Lot 1 Deposited Plar	n 441958	Fee Simple Title	3.8245 Ha	550843
CT NA112C/448 Created Parcels Parcels Lot 1 Deposited Plar Lot 2 Deposited Plar Area A Deposited Pl Area B Deposited Pl	1 441958 an 441958 an 441958	Fee Simple Title Fee Simple Title	3.8245 Ha	550843
CT NA112C/448 Created Parcels Parcels Lot 1 Deposited Plar Lot 2 Deposited Plar Area A Deposited Pl Area B Deposited Pl Area C Deposited Pl	1 441958 an 441958 an 441958 an 441958	Fee Simple Title Fee Simple Title Easement Easement Easement	3.8245 Ha	550843
CT NA112C/448 Created Parcels Parcels Lot 1 Deposited Plar Lot 2 Deposited Plar Area A Deposited Pl Area B Deposited Pl Area C Deposited Pl Area D Deposited Pl	n 441958 an 441958 an 441958 an 441958 an 441958	Fee Simple Title Fee Simple Title Easement Easement Easement Easement	3.8245 Ha	550843
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## Schedule / Memorandum

## Land Registration District

North Auckland

## **Territorial Authority (the Council)** Kaipara District

## Plan Number DP 441958

#### **Council Reference** RM 110021

Memorandum of Easements (Pursuant to s243 Resource Management Act 1991)				
Purpose	Shown	Servient Tenement	Dominant Tenement	
Right to convey Electricity, Telecommunications & Computer Media	C&D	Lot 1 hereon	Lot 2 hereon	
Right to convey Electricity	E	Lot 1 hereon	Lot 2 hereon	

Memorandum of Easements in Gross (Pursuant to s243 Resource Management Act 1991)				
Purpose	Shown	Servient Tenement	Grantee	
Right to convey Electricity,	A	Lot 2 hereon	Northpower Limited	
Telecommunications & Computer Media	B&C	Lot 1 hereon	Non power Limited	

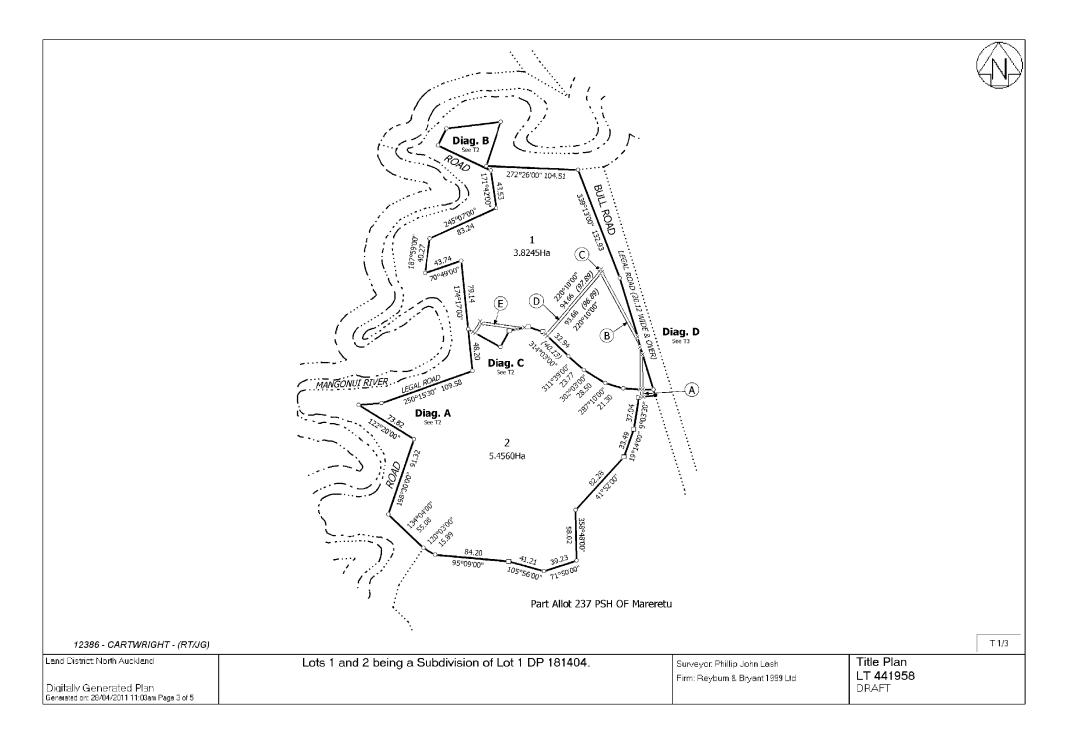
Page 1 of 1

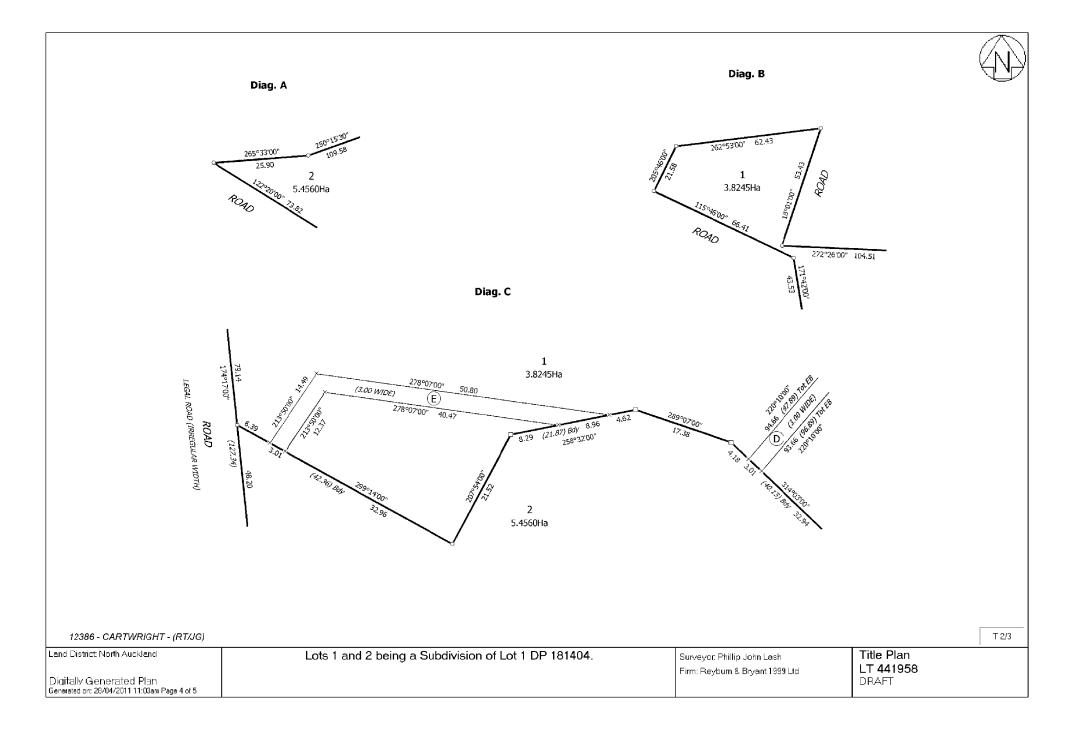
12386 Schedule.doc

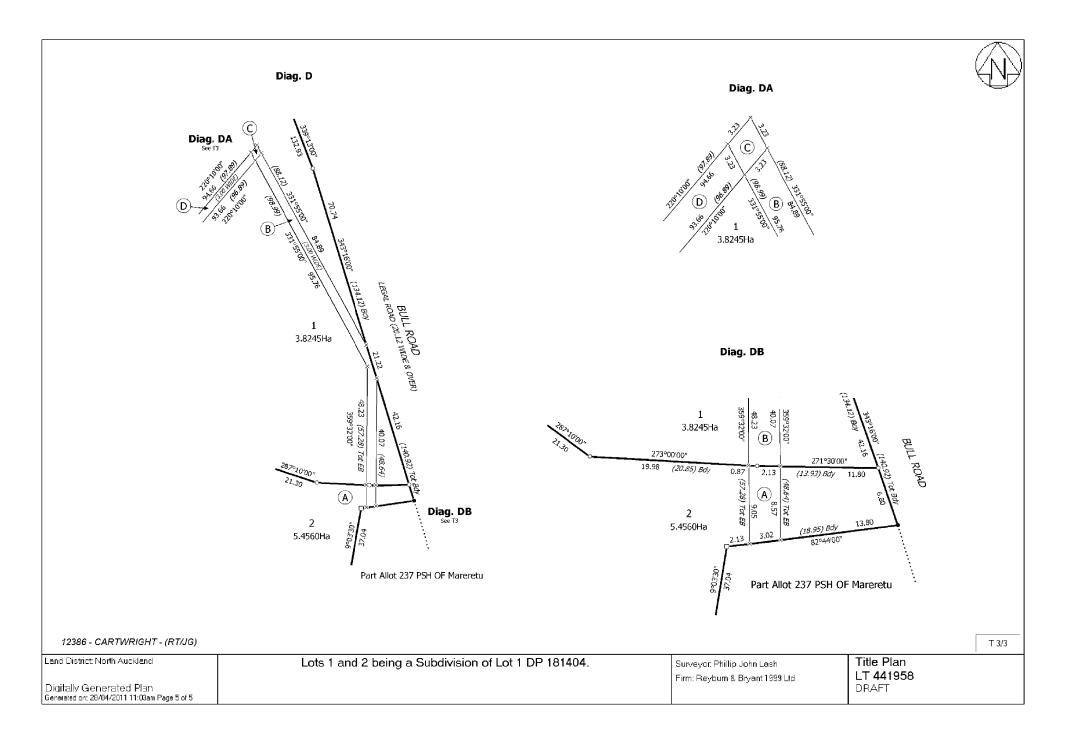
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## **Code Compliance Certificate 120741**

Form 7, Section 95, Building Act 2004

Issue Date:	10/10/12
Overseer:	Central

D and J Cartwright 356 Bull Road RD1 **Waiotira 0193** 

#### THE BUILDING:

Street Address of Building:	356 Bull Road, Waiotira
Valuation Number:	0115001001
Legal Description:	LOT 1 DP 181404 BLK II MATAKOHE SD
Building Name:	
Location of Building within site/block number:	
Level/Unit Number:	
Current Lawfully Established Use:	Outbuilding - Farm building
Year First Constructed:	

THE PROJECT:

Description:	Construct farm building NEW FARM BUILDINGS - OTHER
Type of Work:	
Intended Use:	Outbuilding - Versatile Building
Intended Life:	Indefinite, but not less than 50 years
Stages:	Being Stage 1 of an intended 1 Stages

#### THE OWNER:

	Owners Nam	e: D and J Cartv	vright		
Owner	rs Mailing Addres	s: 356 Bull Road	356 Bull Road, RD1, Waiotira 0193		
Street Address	Registered Offic	e: 356 Bull Road	d		
Phone	Landline:	09 4329828	Daytime:	After Hours:	
Number	Mobile:		Fax:		
Email:			W	ebsite:	

#### FIRST POINT OF CONTACT:

First Point of Contact: As above

#### BUILDING WORK:

Building Consent Number: 120741 Issued By: Kaipara District Council

This Code Compliance Certificate is issued by the Kaipara District Council. As the Building Consent Authority it is satisfied, on reasonable grounds that :

- the building work complies with the Building Consent 120741

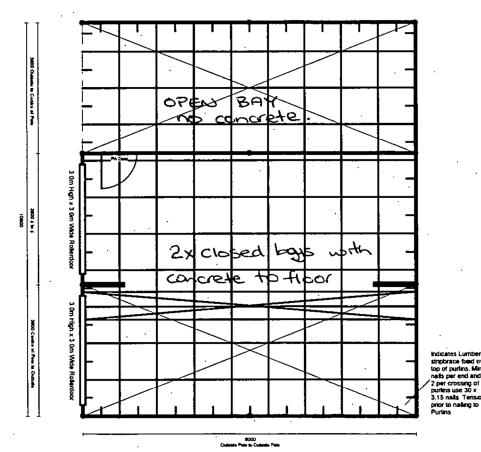
Signature

On behalf of: Kaipara District Council

Date: 10/10/12

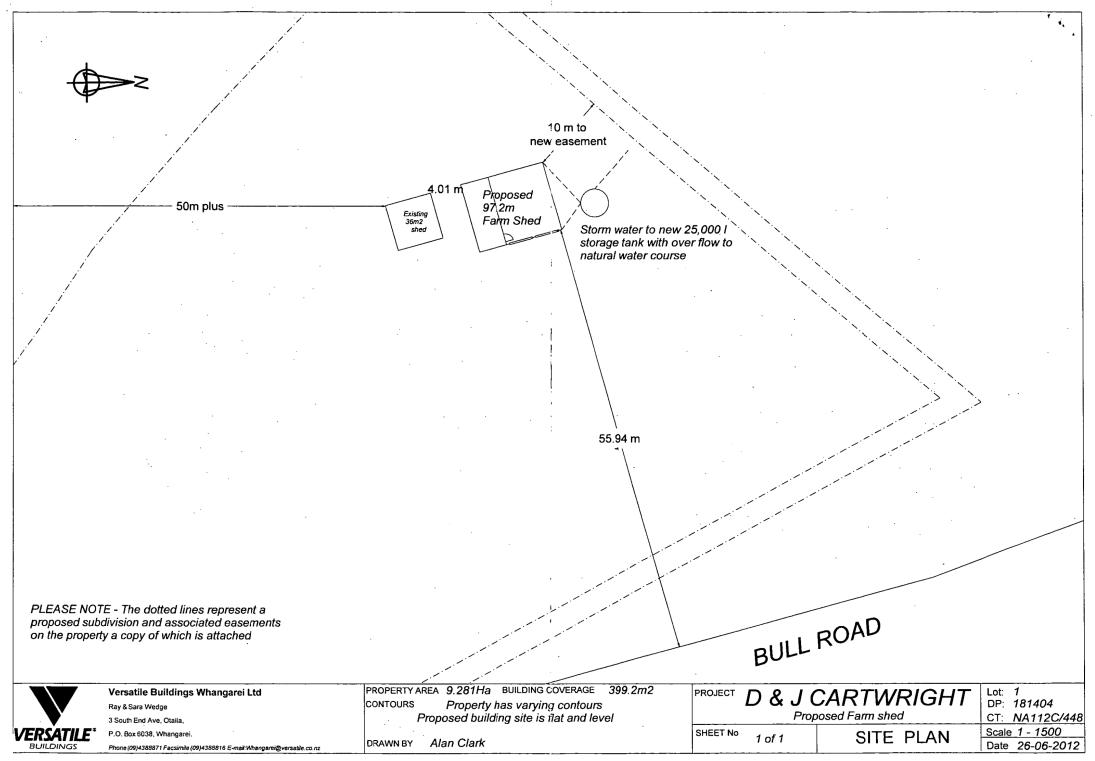
Position Building Services Officer

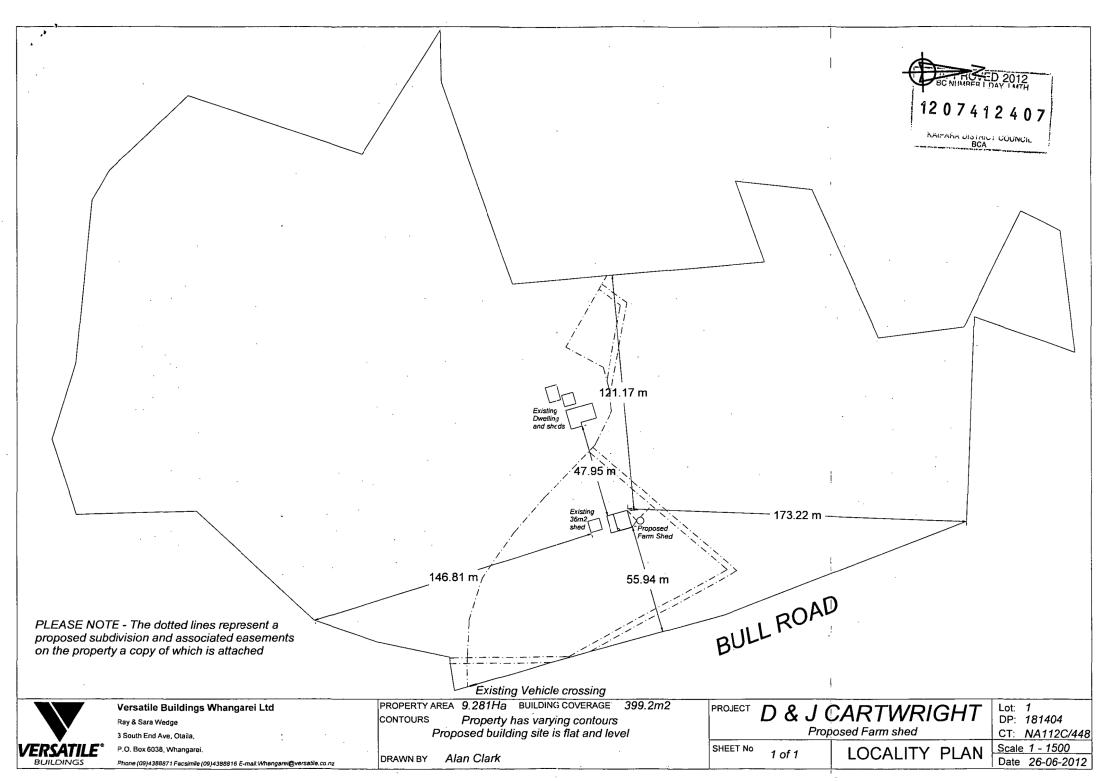
Versatile Buildings Stand-Tough Lean-To Floor Plan Customer: Mr. & Mrs. Darren and Jo Cartwright Site Address: 356 Bull Rd, Waiotira, Reference: AlanClark-2219 Contact: Alan Clark, Whangarei, 09 438 8871



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#### RECEIVED: 25 Feb 2013 SCANNED: 25 Feb 2013 BOX: 1 BATCH: 100447 DOC: KDCAAQIC





## **Code Compliance Certificate 120877**

Form 7, Section 95, Building Act 2004

J.D.N, R.W.C, J.A and D.B Connelly and Cartwright C/- Versatile Whangarei Ltd PO Box 6038, Otaika Whangarei 0147 Issue Date: 20/05/13 Overseer: Central

#### THE BUILDING:

Street Address of Building:	356 Bull Road, Waiotira
Valuation Number:	0115001001
Legal Description:	Lot 1 DP 441958
Building Name:	·
Location of Building within site/block number:	
Level/Unit Number:	
Current Lawfully Established Use:	Housing - detached - New dwelling and services
Year First Constructed:	

THE PROJECT:

Construct new home with effluent and stormwater NEW (& PREBUILT) HOUSE, UNIT, BACH, CRIB, TOWN HOUSE
Housing - detached - New dwelling and services
Indefinite, but not less than 50 years
Being Stage 1 of an intended 1 Stages

#### THE OWNER:

	Owners Nam	ie: J.D.N, R.W.C	J.D.N, R.W.C, J.A and D.B Connelly and Cartwright		
Owne	ers Mailing Addres	s: 356 Bull Road	356 Bull Road, RD1, Waiotira 0193		
Street Addres	s/Registered Offic	e:			
Phone	Landline:		Daytime:	After Hours:	
Number	Mobile:	021 435637	Fax:		
Email:			v	Vebsite:	

#### FIRST POINT OF CONTACT:

First Point of Contact:	Full Name: JDN, RWC, JA and DB Connelly and Cartwright
	Mailing Address: C/- Versatile Whangarei Ltd, PO Box 6038, Otaika, Whangarei 0147
	Phones:: 09 4388871
	Fax: 09 4388816
	Email: whangarei@versatile.co.nz

#### **BUILDING WORK:**

Building Consent Number:	120877
Issued By:	Kaipara District Council

This Code Compliance Certificate is issued by the Kaipara District Council. As the Building Consent Authority it is satisfied, on reasonable grounds that :

- the building work complies with the Building Consent 120877

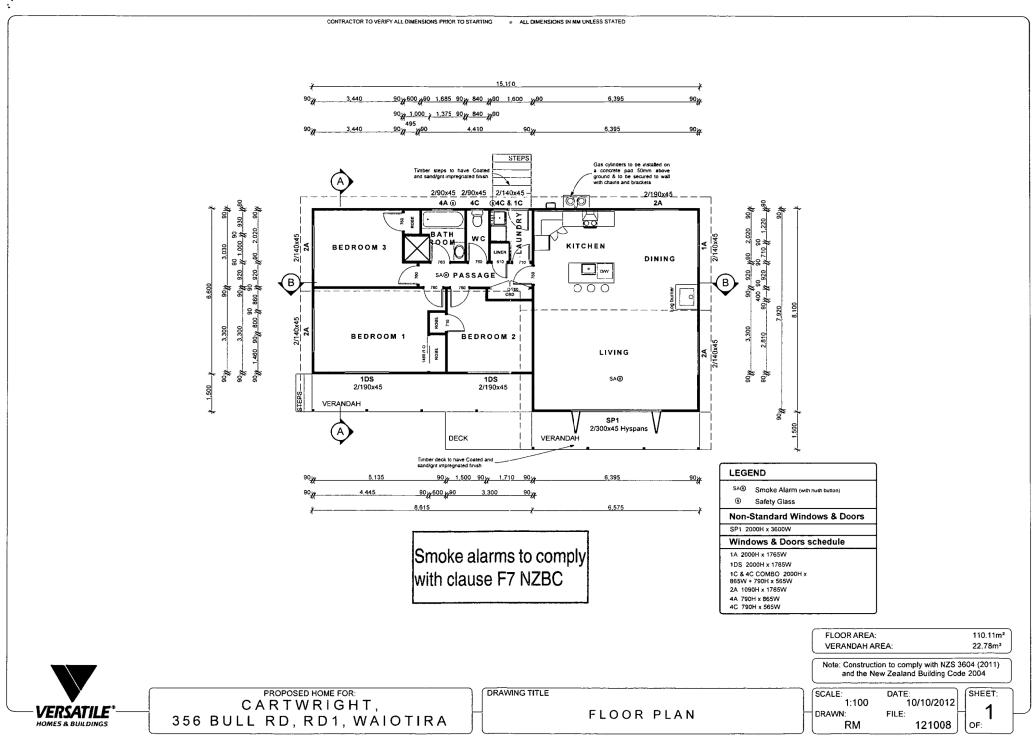
Signature

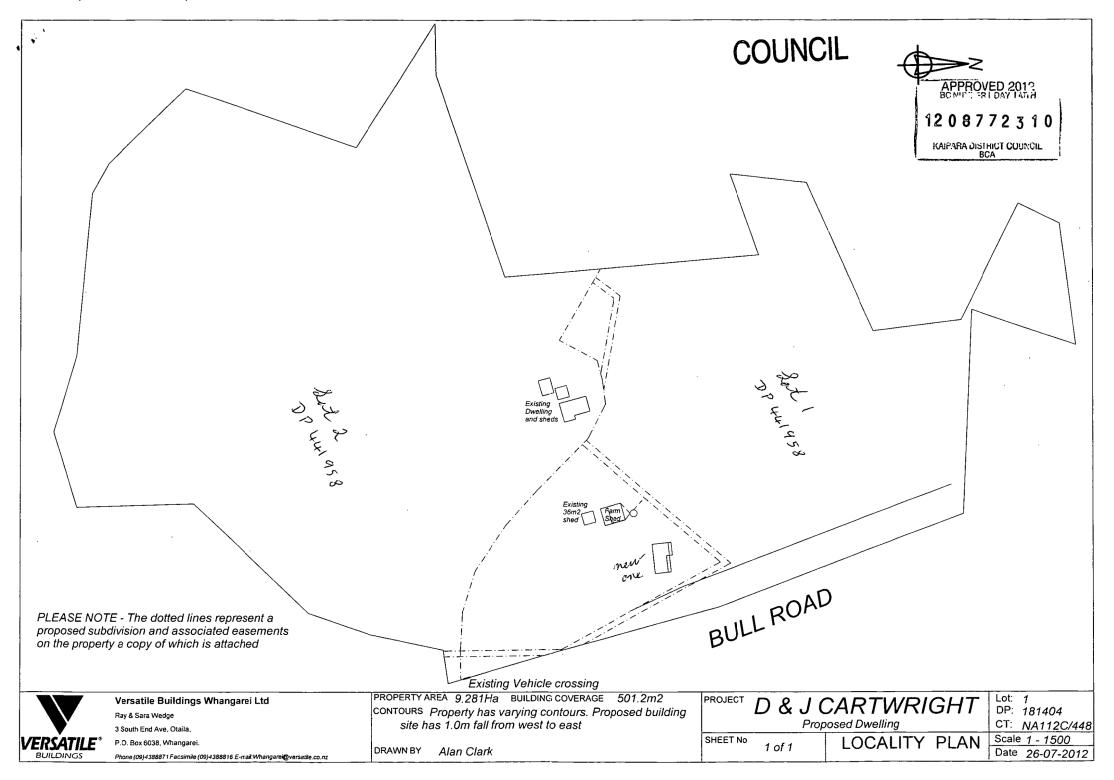
Date: 20/05/13

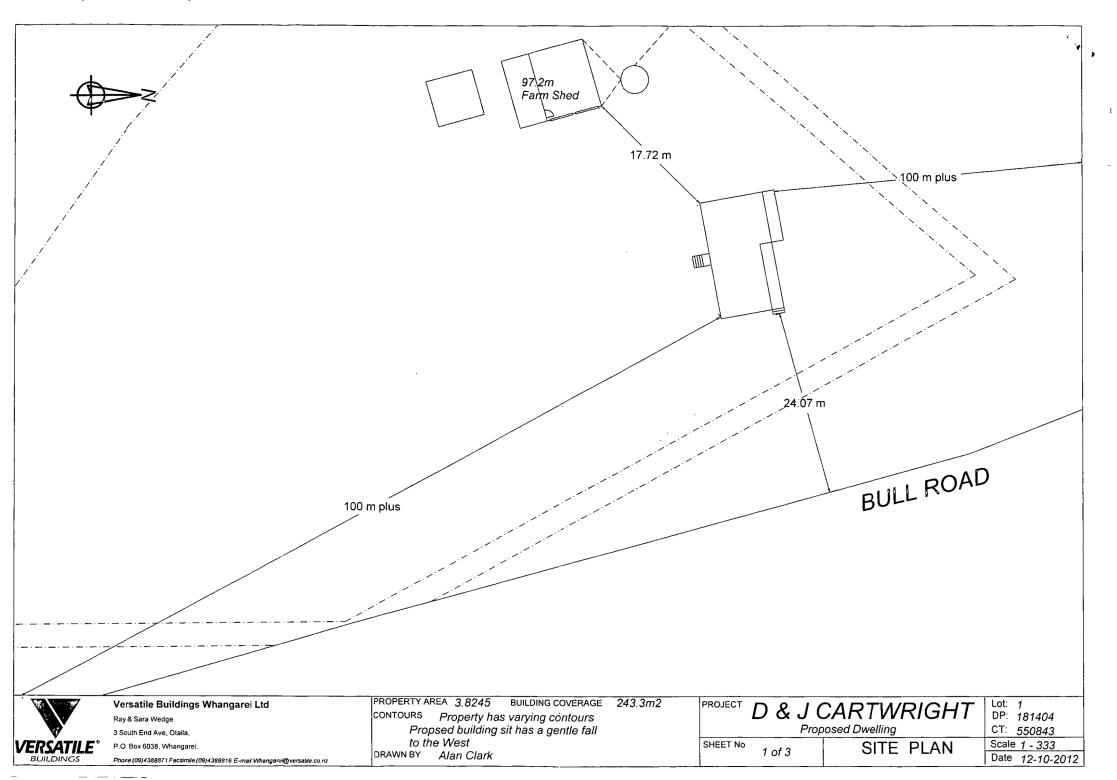
Position Building Services Officer

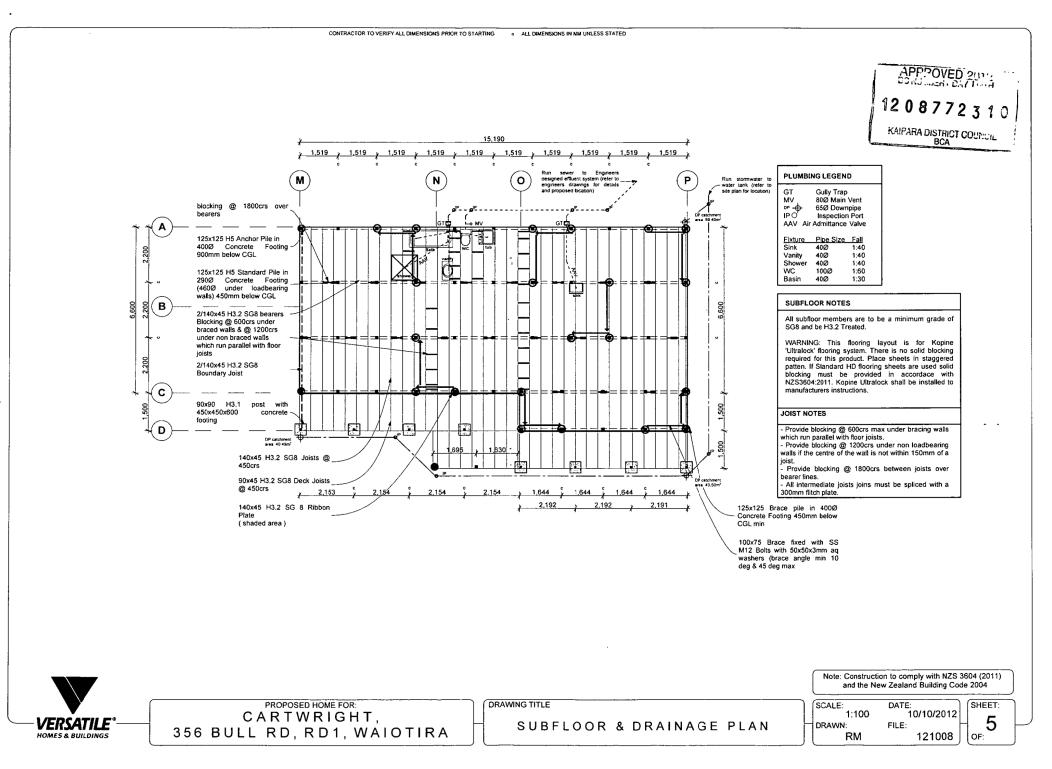
On behalf of: Kaipara District Council

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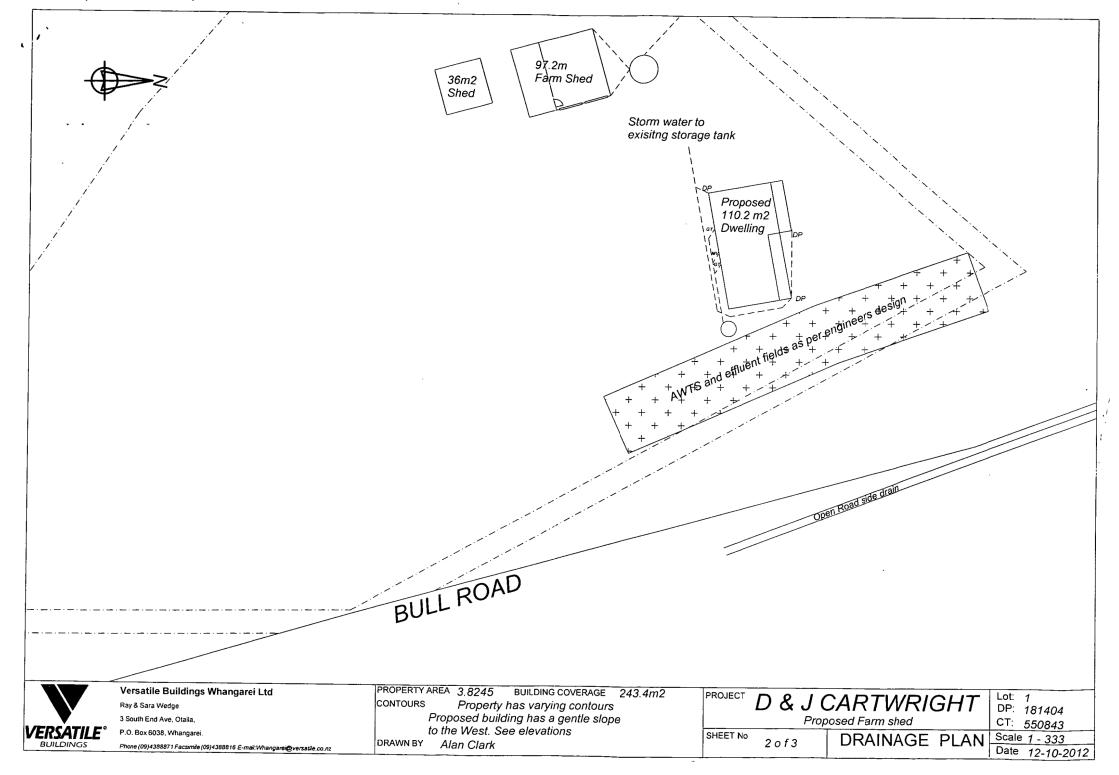








RECEIVED: 11 Sep 2013 SCANNED: 11 Sep 2013 BOX: 1 BATCH: 105677 DOC: KDCAARHD





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KAIPARA DISTRICT COUNCIL

REC. 27-2-13

Wastewater - Pressure	(Pump Make/Moo	1el)	
Connection Diameter	Pipe Material		Connection Type
40mm	uPVC	ſ	Public Utility Service Connectio
50mm	Vitrified-Gla	ау	Septic Tank
80mm	Concrete		Other
Othermm	Other		
Wastewater - Gravity			
Connection Diameter	Pipe Material		Connection Type
65mm	V uPVC	ſ	Public Utility Service Connection
80mm	Vitrified Cla	iy 🗌	Soak Hole
100mm	Concrete	-	Stream
Othermm	Other		Other <u>AWTS</u>
Wastewater - Disposal Syster	n Description		
Septic Tank		Effluent Field	
Size: <u> </u>			OM DRIPPER m
	DECOMMISSIONED		oakhole
Ecotank			m
Biocycle			r of holesm
			· · · · · · · · · · · · · · · · · · ·
Sanitary Facilities			
- 1	1	Waste Dispos	al Unit
Bidet Number	N/A	No	
Urinal Number	N/A	· Yes	Туре
Certification			
SHAME QUI			
	7		being
Owner	Craftsman plumber		n Number
Occupier 🗸	Registered drainlayer	Registratio	n Number
ertify that this Private Utility Ser	vice As-Built Record is a	an accurate repre	sentation of the work carried out.
Rhe/D	`		26.2.13
Signature			Date

(Section 216, Building Act 2004)

Part A Consent Details (to be completed in all cases)

**Private Utility Service As-Built Record** 

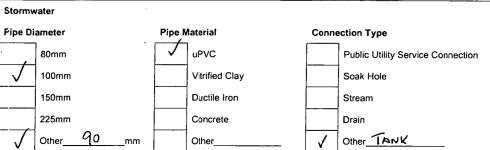
Building Consent Number 120877

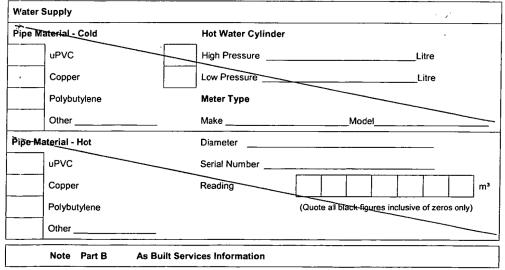
Applicants Name J CONNELLY & D CARTWRIGHT

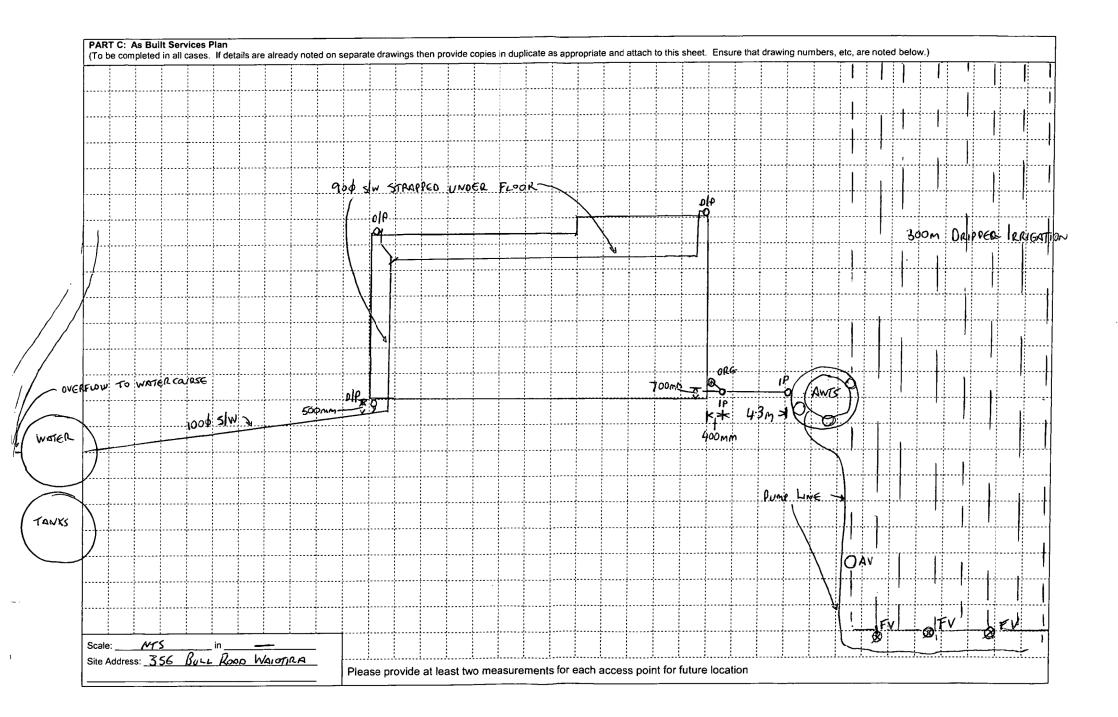
Applicants Mailing Address 356 BULL ROAD WAIOTIRA ROI 0193

Ite Address 356 BUL ROAD WAIOTIRA RDI 0193

Part B As Built Services Information (to be completed in relation to service provided, ticking each box as appropriate)







RECEIVED: 11 Sep 2013 SCANNED: 11 Sep 2013 BOX: 1 BATCH: 105677 DOC: KDCAARHD

"safe, reliable, hassle free service"

Your Ref

COUNCIL

15 October 2012

File Ref. 2J17725

Ray Wedge Versatile Buildings PO Box 6038 Otaika WHANGAREI 0147

Dear Ray

#### Cartwright Easement Bull Rd Waiotira Lot 1 DP 441958

In reply to your letter dated 11 Oct 2012, regarding the easement on the above subdivision, I would advise you of the following.

Northpower Provides authorisation to construct a secondary treatment effluent system within the Electricity and Telecommunications Easement B as shown on DP 441958.

The easement is intended for overhead lines only and there is no underground reticulation within the easement.

Do not plant any trees that could interfere with the overhead lines.

Do not dig within 5 meters of any power poles. If there is a requirement to dig within this distance please contact Northpower to obtain a close approach consent and arrange supervision.

In addition suitable access to the power poles for inspection and maintenance will also require to be retained.

Should you have any queries please contact me at our Whangarei office.

Yours faithfully

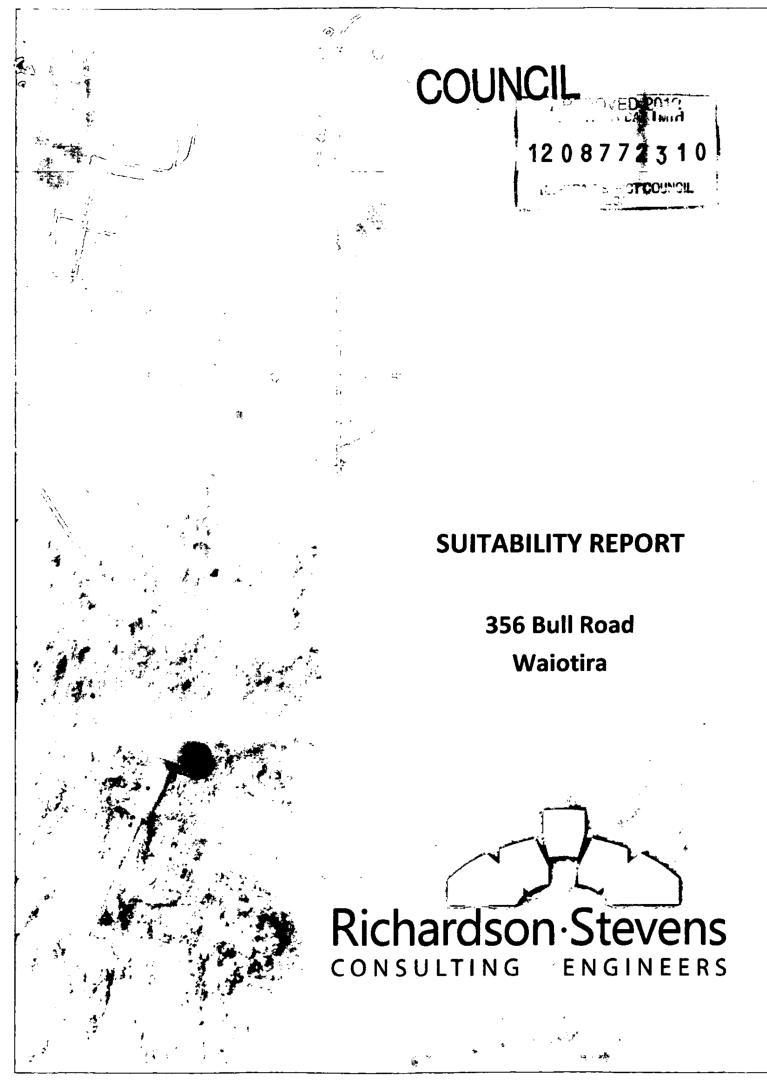
Robert Meyst Network Planning

Whangarei Northpower Limited 28 Mt Pleasant Road Raumanga Whangarei 0110 Private Bag 9018 Whangarei Mall Centre Whangarei 0148 New Zealand Ph 09 430 1803 Fax 09 430 1804 Www.northpower.com

Email: robert.me<u>vst@northpower.com</u> APPPOVED 2012 BOND .....cHI Co/TIMIH 1208772310 KAIPARA DISTRICT COUNCIL BCA

Phone DDI: 0-9-430 1819





RECEIVED: 11 Sep 2013 SCANNED: 11 Sep 2013 BOX: 1 BATCH: 105677 DOC: KDCAARHD



## SUITABILITY REPORT

## 356 Bull Road

## Waiotira

Report prepared for:	D & J Cartwright		

Report prepared by: Michael Shearer

Report reviewed by: Steve Turner

Report reference:

Date:

03 August 2012

11462

Date	Report Title	Amendments



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9.0	Conclusions	5
10.0	Limitations	5

## Appendices

- A Site Details
- B Bore & Scala Logs
- C Wastewater Management Design
- D Wastewater Management Installation Details
- E Site Plan & Detail
- F Plant List



File: 11462 03 August 2012

## SUITABILITY REPORT

## 356 Bull Road, Waiotira

#### 1.0 Introduction

The clients (D & J Cartwright) are proposing to construct a new three bedroom dwelling on Lot 1 DP181404 (No.356) Bull Road, Waiotira. Richardson Stevens Consultants (1996) Ltd has been commissioned to investigate the site and prepare a suitability report addressing foundations, stormwater management, and wastewater management.

## 2.0 Site Description

The 9.3ha property is located on the western side of Bull Road, at the intersection with Jess Place. The property rises gently toward the southern boundary and there are no notable features on the property. Ground cover is predominantly grass with flax planted along the edge of the roadside drain beyond the northern boundary. Access to the lot is via the right-of-way at the north-eastern boundary.



**Existing Site Photo** 



#### 3.0 Geological Description

The Insitute of Geological and Nuclear Sciences Map 2 (QMAP) Whangarei indicates that the site is located at the geological boundary of "Punakitere Sandstone – weakly to moderately indurated, alternating thin to thick-bedded, quartzofeldspathic, commonly micaceous sandstone and mudstone. Minor mudstone-dominated flysch facies and conglomerate" and "Unconsolidated to poorly consolidated mud, sand, and peat deposits of alluvial, swamp, or estuarine origin".

New Zealand Land Inventory Geology Maps 1981 further indicate that the rock type is "Micaceous Sandstone: blue-grey quartz-feldspar sandstone, with a mica content of up to 5%, in places calcareous; thinly to thickly bedded and moderately widely fractured, with minor interbedded mudstone, hard conglomerate and carbonaceous material in places, and large calcareous concretions locally; moderately hard to hard. Weathered to soft brown silty clay to depths of 10m" and "Alluvium: mud, sand and gravel with minor peat, forming river bed and flood plain deposits, up to 60m thick; unconsolidated to very soft. Unweathered". The overlying soil is described as "Waiotira clay loam".

These descriptions are generally consistent with our investigations.

## 4.0 Site Investigations

On 02 August 2012 a walkover inspection of the site and site investigations were carried out to ascertain the suitability of the lot for the proposal. Three boreholes were excavated within the proposed dwelling location and the wastewater disposal field, with Pilcon Shear Vane testing carried out within. Three Scala Penetrometer tests were also carried out within the proposed footprint.

Borehole investigations were taken to depths between 1.5-2.0m below ground level. The results are as follows;

Borehole 1 was excavated to 2.0m below ground level within the building footprint. The underlying soils are loam clay over very stiff to hard clays with intermixed volcanic ash. Results indicate undrained in-situ shear strengths are from 122 to >219kPa throughout the borehole.

Borehole 2 was excavated within a possible wastewater disposal area on the uphill verge of the slope above the Manganui River floodplain. The soils at these locations are loam clay over alluvial sandy clays. Undrained in-situ shear strengths vary from 94 to 210kPa.

Borehole 3 was excavated above the likely wastewater disposal area downhill from the dwelling location. The underlying soils are loam clay over very stiff to hard clays with intermixed volcanic ash. Results indicate undrained in-situ shear strengths are from 113 to >219kPa throughout the borehole.

No groundwater was encountered during our investigations.

Scala Penetrometer testing indicated that the soils within the dwelling footprint have ultimate bearing strengths in excess of 300kPa from 300 - 500mm below the existing ground level. Lesser strengths of 173 - 277kPa were encountered within the soils above this depth, however it should be noted that the site was subject to moderate to heavy rainfall in the week prior to, and during our investigation.

See the appended Bore and Scala logs for detail.

#### 5.0 Stability

Borehole investigations indicate that underlying soils are very stiff to hard clays. The slopes across the area to be developed were  $\leq 11^{\circ}$  and only displayed evidence of shallow seated soil creep on the steeper slopes below the recommended wastewater disposal field and in the minor re-entrant to the west of the building platform. Only minor earthworks will be required in order to prepare the remainder of the driveway and turning area, and it is unlikely that the development of this site will adversely affect site stability. Therefore we assess that the risk of instability associated with the proposed development is low.

#### 6.0 Foundations

The soils within the areas subject to development have undrained in-situ shear strengths in excess of 94kPa and ultimate bearing strengths that are generally in excess of 300kPa across all test sites. Therefore we are satisfied that the site is suitable to support standard NZS 3604 foundations, however we recommend that standard foundations extend to 450mm below cleared ground level to account for the moderately expansive clay soils and weaker upper layer.

#### 7.0 Wastewater Management

The proposed new dwelling is to contain three bedrooms, and therefore the design occupancy is 5 persons. The resulting wastewater flows for non-reticulated water from AS/NZS 1547:2012 is 180litres/person/day, with the total daily wastewater flow being 900litres/day.

The soil type at the recommended disposal field site is category 4 and the land surface shape linear planar as per AS/NZS 1547:2012. The stiff soils and sandstone at relatively shallow depth will limit soakage therefore we recommended a secondary treatment system discharging to drip irrigation lines. Suitable area exists on-site to accommodate this system and clearances complying with Northland Regional Council Regional Water and Soil Plan are available.

As this site is exposed to sunlight and wind, it is ideally suited for these applications. No resource consent is required from the Northland Regional Council as this is a Permitted Activity under the Regional Water and Soil Plan. 390m<sup>2</sup> minimum of undeveloped land must be allowed for wastewater management.

Appended are the design calculations, installation details, plans and plant list.

## 8.0 Stormwater Management

This property provides 9.3ha of total area with the proposed dwelling located near the Manganui River and its tributaries. Therefore we believe any downstream effects associated with this development will be negligible, and that stormwater attenuation is not necessary for this development.

However we recommend that any stormwater discharge is directed away from the wastewater disposal field and piped to a nearby stable watercourse.

#### 9.0 Conclusions

Richardson Stevens Consultants (1996) Ltd concludes that the site is suitable for the proposed dwelling subject to the following recommendations;

- 1. Standard NZS 3604:2011 foundations extending a minimum of 450mm below cleared ground level will be suitable for the proposed dwelling.
- 2. A secondary treatment system discharging to drip irrigation lines will be suitable for this site.

#### 10.0 Limitations

This report has been prepared solely for the benefit of our client and the Kaipara District Council. The purpose is to determine the engineering suitability of the proposed residential building, in relation to the material covered by the report. This report does not address matters relating to the National Environmental Standard for Contaminated Sites, and if applicable separate advice should be sought on this matter from a suitably qualified person.

The reliance by other parties on the information or opinions contained therein shall, without our prior review and agreement in writing, do so at their own risk.

Recommendations and opinions in this report are based on data obtained as previously detailed. The nature and continuity of subsoil conditions away from the test locations are inferred and it should be appreciated that actual conditions could vary from those assumed.

If during the construction process, conditions are encountered that differ from the inferred conditions on which the report has been based, the site should be examined by a suitably qualified engineer to determine if any modification of the design based upon this report is required.

Prepared by:

Michael Shearer Engineering Technician

Approved by:

Steve Turner Chartered Professional Engineer

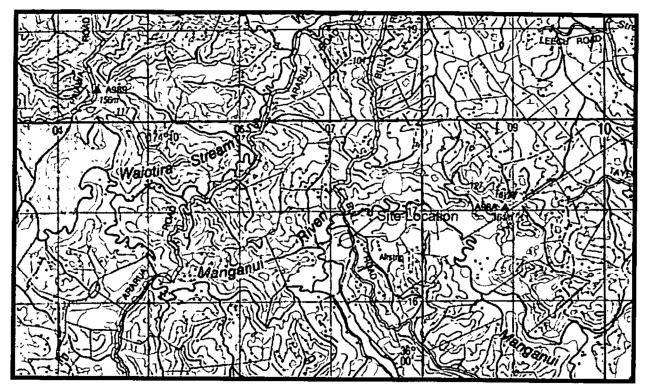
**Richardson Stevens Consultants (1996) Ltd** 

## Appendix A

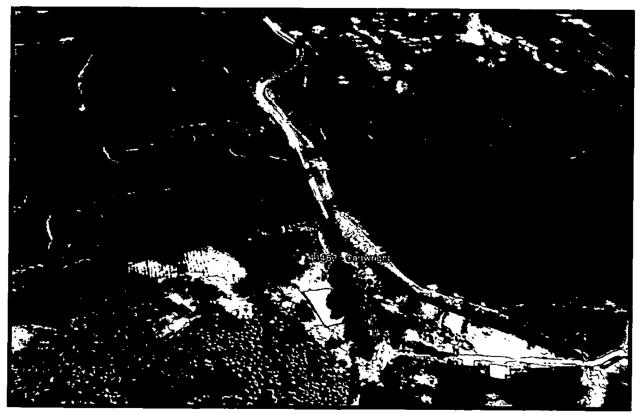
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## **Site Details**

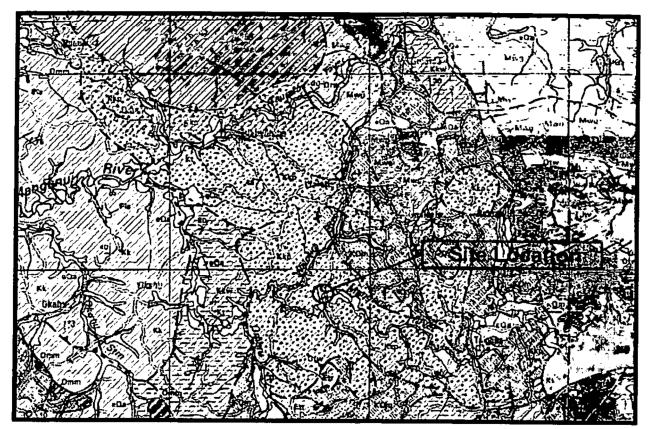
- NZ Topographical Map
- Google Earth Aerial
- NZ Geological Map (QMAP)
- Borehole Soils



NZ Topographical Map



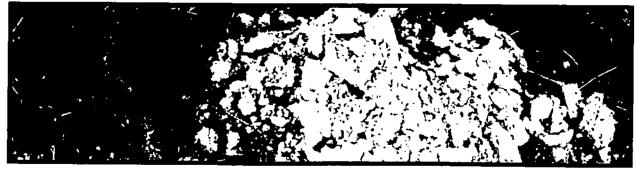
Google Earth Aerial



NZ Geological Map (QMAP)



Borehole 1 Soils



Borehole 2 Soils

Appendix B

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Bore & Scala Logs

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	Richardson Stevens	Project Now Dwolling		· • · ·		Shear Vane	02/08/2012
	CONSULTING ENGINEERS	New Dwelling				Slope 22	MS
T: 09	aview Road Whangarei 0110 438 3273 F: 09 438 5734	Borehole Location	t			3°	Hand Auger
engi:	neers@richardsonstevens.co.nz	See Plan			<b>.</b>		75mm
1		Terminated at: Target Depth S	DEPTH (mm)	Ē	1	NDRAINED SHEAR STRENGTH (KPa)	Pilcon Shear Vane readings and comments
SYMBOL	STRATA DESCRIPTION	Refusal () Near Refusal () Saturated ()	DEPT	GW LEVEL	8 9	8 8 8 8 9 9 9 8	Su, Undisturbed Rm, Remouided
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	Loam Clay: Brownish, Very Stiff, Lov	v Plasticity, Moist, Normal	-				
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	Sandy Clay: Yellow/Brown, Very St	iff, Low Plasticity, Moist,	400				_
	Normal						
			600			<b>⊕</b>	Su=122kPa
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	Weathered, Moist, Normal, Intern	nixed Volcanic Material	- 1400				-
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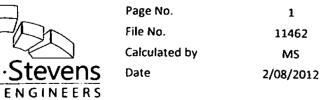
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						Northing	Job Number
N	nation	Borehole	Log	BH	2	Easting	11462
Ч	Richardson Stevens						02/08/2012
	CONSULTING ENGINEERS	New Dwelling				Shear Vane Blue	Logged By MS
	iew Road Whangarei 0110	Client D & J Cartwrigh	nt			Slope 11°	Drill Method Hand Auger
	138 3273 F: 09 438 5734 eers@richardsonstevens.co.nz	Borehole Location					Deall Size
		See Plan Terminated at:		1	· · ·		Pilcon Shear Vane readings ar
5		Target Depth 🛛 🕱	DEPTH (mm)	E		JNDRAINED SHEAR STRENGTH (KPa)	comments
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			- 400				-
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	<b>Richardson</b> Stevens	Project				Shear Vane	ll gegend Dr.
	CONSULTING ENGINEERS	New Dwelling				Shope an	I MS
	view Road Whangarei 0110 438 3273 F: 09 438 5734	D & J Cartwrigh	t			slope 4°	Drill Method Hand Auger
	eers@richardsonstevens.co.nz	Borehole Location See Plan					Drill Size 75mm
		Terminated at:	Ē			INDRAINED SHEAR	Pilcon Shear Vane readings a
SYMBOL	STRATA DESCRIPTION	Target Depth 🕱 Refusal 🕞	DEPTH (mm)	GW LEVEL		STRENGTH (KPa)	COmments Su, Undisturbed
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	Loam Clay: Brownish, Very Stiff, Lov	Plasticity Moist Normal	L				
			200				_ Su=113kPa
						Ψ	Rm=66kPa
	Sandy Clay: Yellow/Brown, Very St	tiff, Low Plasticity, Moist,	400				_
	Normal						
			600				– – Su= >219kPa
				[			- JU- ZIJKFA
			- 800				_
							-
			-1000				Su=191kPa
	Sandstone: Creamy Grey, Very Stiff Weathered, Moist, Normal, Intern	- Hard, Non Plastic, Highly nixed Volcanic Material				<u></u>	Rm=136kPa
			- 1200				_
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			- 1400				-
			 				- Su= >219kPa
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CONSULTING





#### Project New Dwelling Client D & J Cartwright

Strengths Shown are Ultimate Bearing

Test 1						Test 2					
height	# of blows	max. depth	depth/ blow	КРа	CBR	height	# of blows	max. depth	depth/ blow	KPa	CBR
1500						1500		-		-	
1220	5	280	56	183	3	1240	5	260	52	195	3
1160	5	340	12	>300	18	1100	5	400	28	>300	7
1010	5	490	30	>300	6	960	5	540	28	>300	7
890	5	610	24	>300	8	850	5	650	22	>300	9
640	10	860	25	>300	8	550	10	950	30	>300	6
440	10	1060	20	>300	10	310	10	1190	24	>300	8
270	10	1230	17	>300	12	120	10	1380	19	>300	11
100	10	1400	17	>300	12						
Test 3											
height	# of blows	max. depth	depth/ blow	КРа	CBR						

e

height	# of blows	max. depth	depth/ blow	КРа	CBR
1500					
1200	5	300	60	173	3
1030	5	470	34	277	5
880	5	620	30	>300	6
730	5	770	30	>300	6
450	10	1050	28	>300	7
210	10	1290	24	>300	8
0	9	1500	23	>300	8

# Appendix C

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# Wastewater Management Design

#### Wastewater Management Design

#### System Brief

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Proprietary secondary treated unit, discharging to planted pressure compensating drip irrigation line. Drip line is to be either placed on the surface and covered or buried, either in a newly or existing planted area.

#### Wastewater Management Area and Constraints

Topography:			Slight - Moderate	Slope:	≤11°
Aspec	t:		North		
Land	Surface	Shape:	Linear Planar		
(AS/N	ZS 1547:2	012)			

Existing Ground Cover: Grass

Required	Clearances:
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Boundaries:	1.5m min	>1.5	m
Waterways:	15m min	>15	m
Wells/Bores/Springs:	20m min	>20	m
Buildings:	3m min	>3.0	m
Groundwater:	0.6m min	>1.5	m

Available Clearances:

Groundwater Level Based on Subsoil Investigations						
Winter Groundwater Level:	>1.5	m				
Summer Groundwater Level:	>1.5	m				
Soil Category (AS/NZS 1547:2012):	4 (imperfectly	/ draining)				
Need for Surface Water Cut-off Drains:	Yes					
Intended Water Supply:	Rainwater sto	orage tanks				
Reserve Area Required:	30%					

#### Wastewater Loading and Design

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Type of structure:	Residential	
Number of bedrooms:	3	
Occupancy:	5	
Wastewater flow allowance: (AS/NZS 1547:2012)	180	litres/person
Total Daily Wastewater Flows:	900	litres/day
Design Loading Rate: (AS/NZS 1547:2012)	3	mm/day
Irrigation Area Required:	300	m²
Drip line Spacing	1	m
Reserve Area	90	m²

Use 300m (minimum) of irrigation line to dispose of treated wastewater. 30% reserve area is required, therefore the total wastewater management area left undeveloped is 390m<sup>2</sup>. Recommended plant list is appended.

# Appendix D

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Wastewater Management Installation Details

#### **Wastewater Management Installation Details**

- Use a secondary treatment system to provide primary and secondary treatment of wastewater.
- Use 300m (minimum) of irrigation line, with Arkal filters, flushing and air release valves fitted.
- Irrigation line is to be laid in a 50-100mm trench within a planted area and covered with 50-100 mm of topsoil, bark or mulch, or natural deadfall.
- Distribution is to be via drip irrigation line with self-compensating pressure drip emitters.
- Irrigation line is to be laid with the contour.
- The disposal field is covered with natural vegetation. These plants will help reduce subsurface loading.
- System to be installed and maintained as per manufacturer's recommendations including regular de-sludging of the primary treatment tank.
- Disposal area to be protected from stock and vehicles.
- Surface water cut-off drain to be installed directly above the disposal field. Cut-off drains to catch and direct surface water away from disposal area.
- Refer to "How to look after your septic tank" (published by the Northland Regional Council) when protecting the disposal area.
- The system will benefit from the use of water reduction fixtures, i.e. dual flush 11/5.5 litre water closets, shower-flow restrictors, aerator tap fittings and water conserving automatic washing machines.

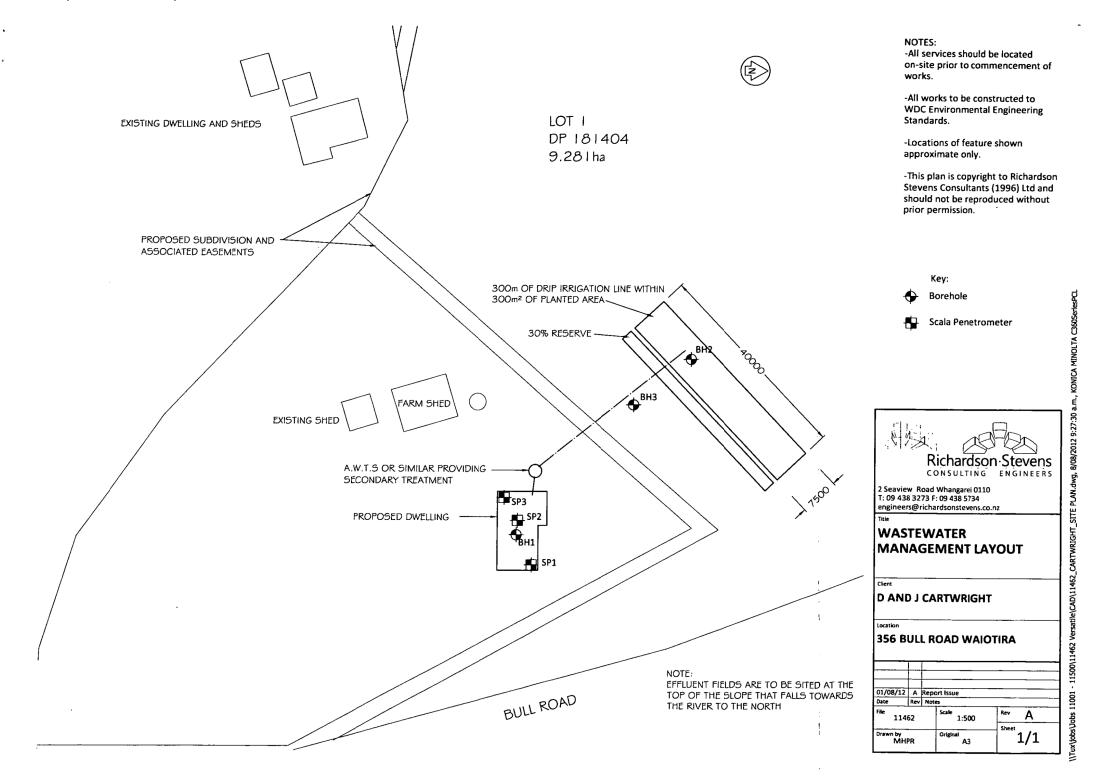
#### Irrigation Line Specification

- Install an Arkal disc filter at the outlet of the treatment system. Install pressure checkpoints on either side of the filter to allow for gauges to check for blockages. Install pressure checkpoints at the end of each lateral.
- Install either manual or automatic flushing valves at the end of each lateral. Install air release valves in the high points of the irrigation field.
- Allow 5m head loss from semi-blocked filter and ensure 12m of end pressure for the lowest emitter in the field.
- Ensure there is laminar flow through all lines in the field. Ensure flushing velocity is greater than 0.5m/s.
- Ensure the treatment plant manufacturer's outlet pump will meet the pressure/discharge requirements for the irrigation field.
- Should the supplier/installer require us to specify the pump and design irrigation network please contact this office. There will be additional charges on a time disbursement basis for this service.
- Use drip irrigation line with emitter flow rate of 1.6 lph, 1.0m dripper spacing and 1.0m spacing between lateral.

Appendix E

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Site Plan & Detail



Appendix F

**Plant List** 

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#### **Suitable Plant Species for Wastewater Management Areas**

#### Shallow Rooted Plants (Suitable for All Management Areas)

- NZ Blueberry/Turutu (Dianella nigra) \*\*
- Begonias
- Canna lily (Canna sp.) #
- Flax (Phormium tenax), (Phormium cookianum) \*\*
- Fuchsia
- Geraniums
- Koromiko (Hebe stricta) \*\*
- Philodendrons
- Rangiora (Brachyglottis repanda) \*\*
- Rhubarb
- Astelia (Astelia grandis)\*\*
- Manuka (Leptospernum scoparium)\*\*
- Taro (Colocasia esculenta, C. niue)#
- Black Taro (Xanthosma violacea)
- Alocasia sp.
- Coprosma sp. (C.popinqua, C.tenicaulis, C. rhamnoides, C. rigida, C. robusta, c. lucida, C. macrocarpa)\*\*

#### Grasses/Sedges/Rushes

- Yorkshire fog
- Red clover
- Gahnia/Tupari maunga (Gahnia xanthocarpa), (Gahnia setifolia)\*\*
- Purei/Makura (Carex secta, C. flagellifera, C. germinata, C. lessoniana, C. virgata) \*\*
- Giant umbrella sedge/Toetoe upoko-tangata (Cyperus ustulatus) \*\*
- Sharp spike sedge (Eleocharis acuta) \*\*
- Toetoe (Cortaderia fulvida) \*\*
- Oioi or Jointed wire rush (Apodasmia similis)\*\*
- Machaerina sinclairii\*\*

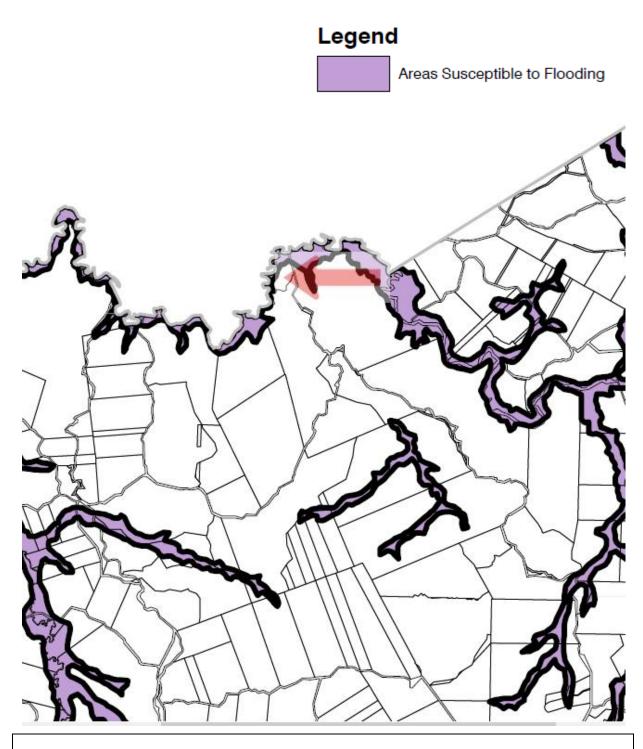
#### Larger Deeper Rooted Plants (Suited to Drip Irrigation Fields)

- Mamaku (Cyathea medullaris)^\*\*
- Wheki (Dicksonia squarrosa)<sup>\*\*</sup>
- Karaka (Corynocarpus laevigatus)\*\*
- Kowhai (Sophora microphylla)\*\*
- Pukatea (Laurelia novae-zealandiae)\*\*
- Ribbonwood or Manatu (Plagianthus regius)\*\*
- Cabbage tree or Ti Kouka (Cordyline australis)\*\*
- Kahikatea (Dacrycarpus dacrydioides)\*\*
- Swamp maire (Syzygium maire)\*\*
- Banana species (Musa paradisiacal, M. zebrine, M. cochineu)#
- Ensete maurellii #
- Shell Ginger [non-invasive] (Alpinia zerumbet)
- Gunnera Tinctoria
- Cyperus Papyrus

#### KEY

\*\* Native ^ Shaded areas

#Frost tender



Extract from KAIPARA DISTRICT PLAN – OPERATIVE VERSION – NOVEMBER 2013

# Appendix C : Flood Susceptibility Areas

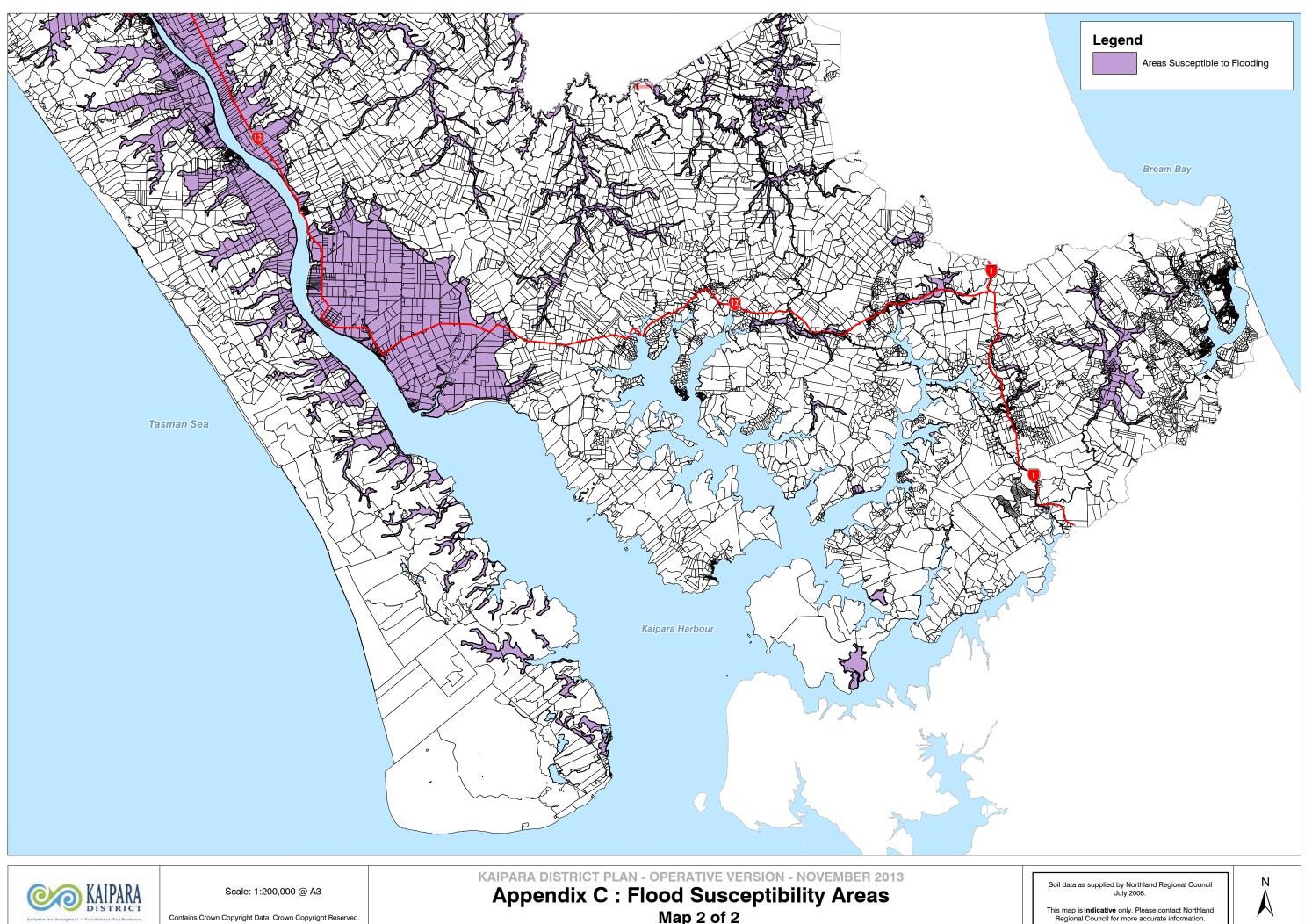
Map 2

The maps included are for information and as a matter for assessment (not rules) in the Plan.



Soil data as supplied by Northland Regional Council July 2008.

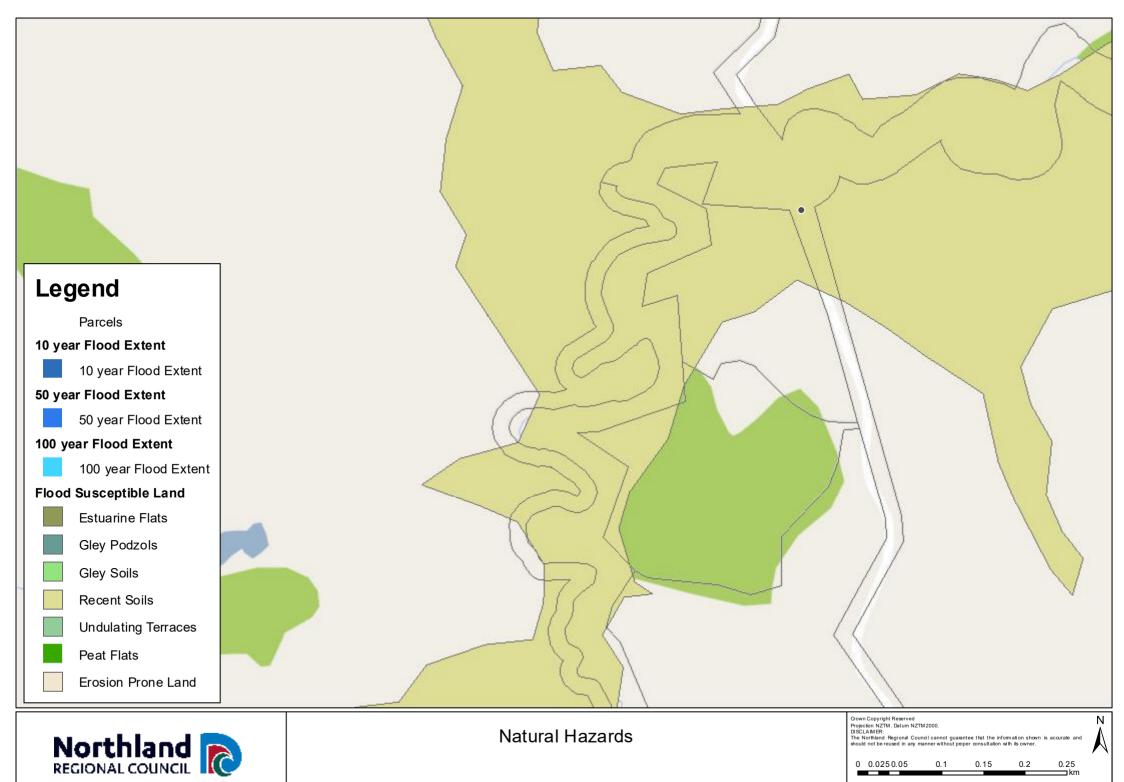
This map is **indicative** only. Please contact Northland Regional Council for more accurate information.



Map 2 of 2

The maps included are for information and as a matter for assessment (not rules) in the Plan

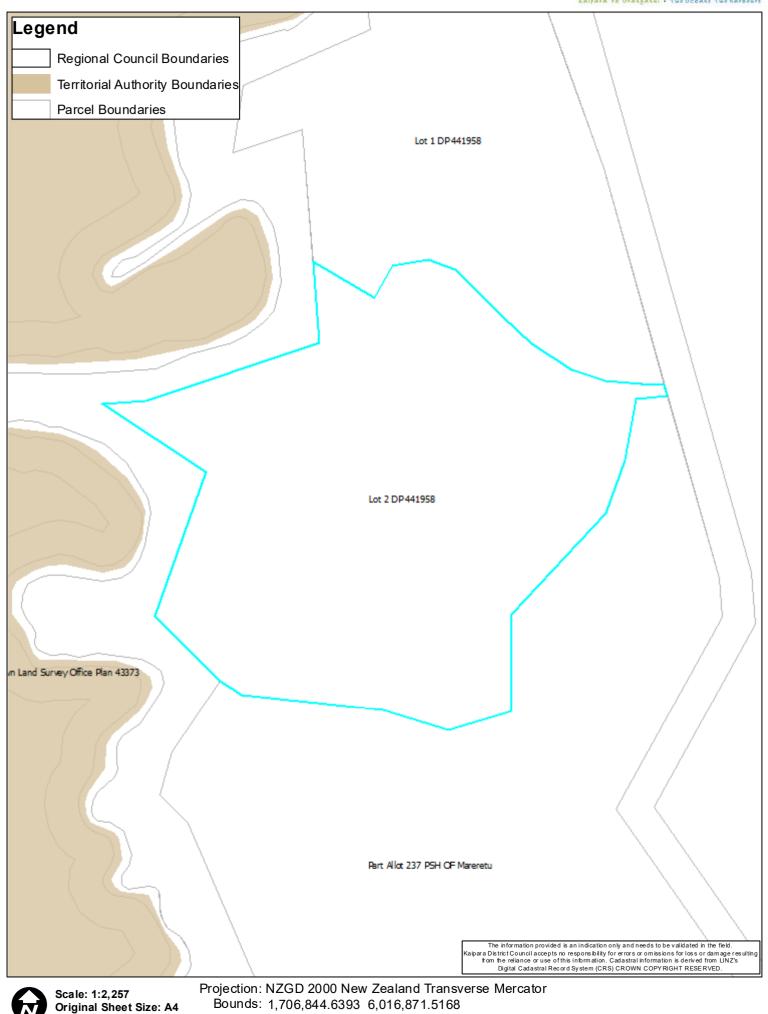
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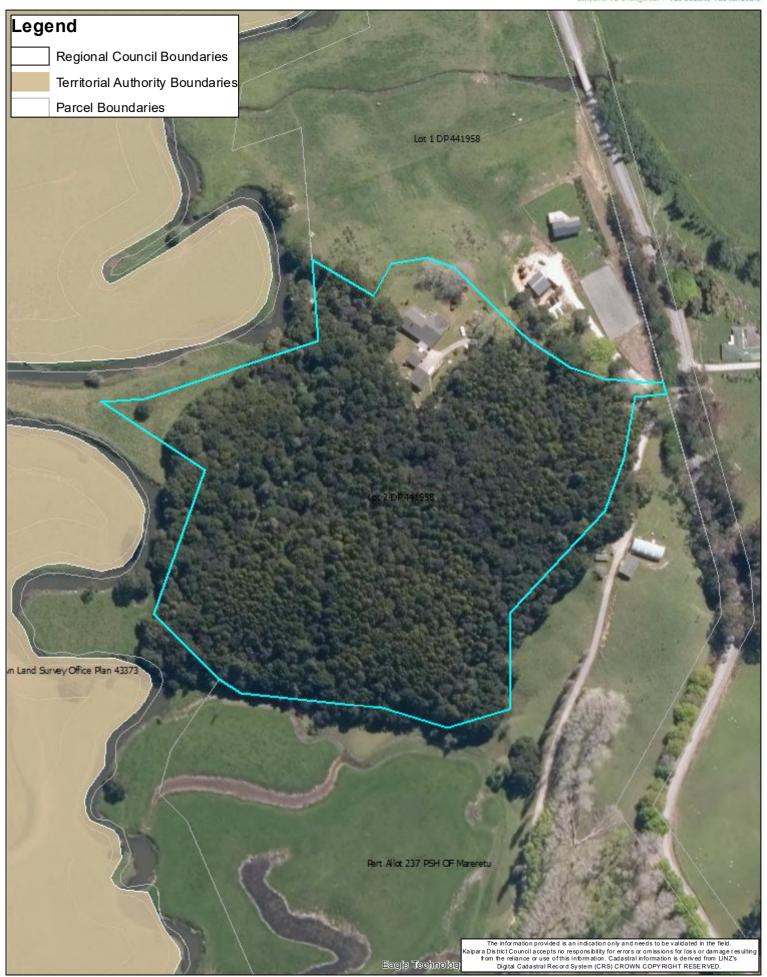




1,707,293.7654 6,016,295.6537

### 0115001001





Scale: 1:2,257 Original Sheet Size: A4 Projection: NZGD 2000 New Zealand Transverse Mercator Bounds: 1,706,844.6393 6,016,871.5168 1,707,293.7654 6,016,295.6537

# **Roads and** driveways

District councils are responsible for local roads and Transit New Zealand is responsible for state highways. Private driveways are the responsibility of private landowners.

Check whether the access driveway from the public road is part of the property or crosses other land.

Make sure any right of way is recorded on the title.

Check that any right of way shown on paper matches up with the formed access.

Check the location of any dwelling in relation to other people's or shared driveways - vehicles using driveways can cause dust.

## Will my green rural outlook change?

• farming methods change

land may be subdivided

occur

come

harvested

• new types of rural production will

• crops (including trees) will be

new people and new ideas will

The council's rules are not intended to preserve things as they are now

but to manage the environmental

Ask the council about its rules for rural subdivision and the location

of buildings on adjoining land.

effects of ongoing changes.

The rural landscape is constantly changing. Change is a necessary and inevitable part of living in the country -



# Other things to check:

- Requirements for controlling serious weeds
- Responsibilities to control dogs and livestock
- The use of chemical sprays
- The location of emergency services (doctor, rural fire service)
- Power connection to the property



# Thinking about living in the countr

This brochure answers some of the frequently asked questions about living in the country

ESTATE INSTITUTE OF NEW ZEALAN

How can I find out about all of that?

Visit your district council - they will be able to answer many of your questions.

The district council can give you a Land Information Memorandum (a 'LIM') which describes important details about any property. There will usually be a small fee - but it is a small price to pay for accurate information.

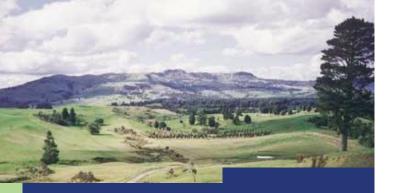
You might also like to talk to the regional council.

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Environment

# ime things to check



# it's paradise – right?

It can be but remember - the rural environment is where people live and work. That means it's both a beautiful landscape and a place of production.

Some production activities create effects that are noticeable on adjoining properties. Many of these effects are a necessary and legitimate part of rural production. Maybe not all day or all year – but sometimes, depending on the season, there might be:

- **Noise** Dogs barking, farm machinery operating, planting or harvesting activities, stock being moved, bird scaring devices, truck movements in the early or late hours, stock noise at weaning time, helicopters
- Smell Animal enclosures, silage, effluent disposal
- **Smoke** Stubble burn-off or other fires
- **Dust** Cultivation, planting and harvesting, vehicles on unsealed roads and driveways
- **Spray** Agrichemical spraying of crops and paddocks

Look around the rural neighbourhood and see what's there. Think about how established activities might affect you.

Ask around – find out what day-to-day life is like in that rural area in all seasons.

Spend some time there – check it out in good weather and bad weather days and all wind directions.

# Can I do anything I want on my land?

house location and number of houseslocation of farm buildings and stock yards

• taking water from the ground or rivers

discharges to ground and water

removal of scrub or trees

and rural neighbourhood.

might affect them?

earthworks to build access tracks

special landscape or ecological importance.

burning of open fires

boundaries

noise

.

· disposal of household sewage and stock effluent

• distance of shelter belts and plantation forestry from

There may be particular or additional controls in areas that have

Ask the council for a copy of the rules applying to your property

Just as in town, it's important to get on with neighbours. The

council can set basic guidelines or standards but, when it comes

to managing minor matters, it's up to you and your neighbours.

Why not tell your neighbours about anything you plan to do that

Make sure you can get hold of your neighbours if anything

happens on their property that might affect you.

Councils are responsible for managing the effects of activities and may have rules and bylaws controlling things like:

It might pay to check. Usually you can – provided your activities don't cause adverse environmental effects.



# Water and sewerage

Most rural properties have to provide for their own water supply and sewage disposal.

This usually means rain water has to be collected in tanks or water has to be pumped from waterways or an underground bore. If water is already piped onto the property from elsewhere, find out where it comes from and check that there is an easement or permission that allows this to continue – even in summer dry periods.

Sewage disposal is often to a septic tank. Septic tanks need to be emptied periodically.

It may be that you will need to install a new water supply or sewage disposal system – especially if the property is bare land.

water supply and sewage disposal systems meet required standards and actually work.

Rural landowners are responsible for the ongoing maintenance of water supply and sewage disposal systems – you'll need to know how to maintain pumps and clear blocked drains.



