

## Designation Schedule - Vector Ltd

Number	Purpose	Location
8800	Electricity works (substation)	285 East Tamaki Road, Otara
8801	Electricity works (substation)	10 Udys Road, Pakuranga
8802	Electricity works (substation)	103 Wiri Station Road, Manukau
8803	Electricity works (substation)	1 Laxon Avenue, Otara
8804	Electricity works (substation)	80 Raglan Street, Papatoetoe
8805	Electricity works (substation)	140R-142 Boundary Road, Otara
8806	Electricity works (substation)	39 Whitford Road, Howick
8807	Electricity works (substation)	142 Maraetai Drive, Maraetai
8808	Electricity works (substation)	28 Weymouth Road, Manurewa
8809	Electricity works (substation)	15 Nandina Avenue, Greenmount
8810	Electricity works (substation)	418 Roscommon Road, Manurewa
8811	Electricity works (substation)	72 Hutchinson Road, Howick
8812	Electricity works (substation)	2 Canning Crescent, Mangere
8813	Electricity works (substation)	1 Gillies Avenue, Epsom
8814	Electricity works (substation)	355 Rosebank Road, Avondale
8815	Electricity works (substation)	867B New North Rd, Mt Albert
8816	Electricity works (substation)	2-4 Minto Road, Remuera
8817	Electricity works (substation)	60 College Road, St Johns
8818	Electricity works (substation)	98 Franklin Road, Freemans Bay
8819	Electricity works (substation)	12 Dundonald Street, Eden Terrace
8820	Electricity works (substation)	27-29 Ruskin Street, Parnell
8821	Electricity works (substation)	4 Thatcher Street, Mission Bay
8822	Electricity works (substation)	58-60 Kesteven Avenue, Glendowie
8823	Electricity works (substation)	1094 Great North Road, Point Chevalier
8824	Electricity works (substation)	1A Central Road Kingsland
8825	Electricity works (substation)	83 West Tamaki Road, Glen Innes
8826	Electricity works (substation)	250 Balmoral Road, Sandringham
8827	Electricity works (substation)	3 Chalmers Street, Avondale
8828	Electricity works (substation)	249 Mount Albert Road, Sandringham
8829	Electricity works (substation)	11 McNab Street, Penrose
8830	Electricity works (substation)	62-66 The Drive, Epsom
8831	Electricity transmission purposes: Penrose Portal (Gavin Street), Penrose to Hobson Street tunnel for the purposes of conveying electricity to the CBD	19 Gavin Street, Ellerslie
8832	Electricity works (substation)	111 Mount Wellington Highway, Mount Wellington
8833	Electricity works (substation)	36-38 White Swan Road Mount Roskill
8834	Electricity works (substation)	66-70 Rockfield Road, Penrose
8835	Electricity works (substation)	77 Selwyn Street and Arthur Street

		intersection, Onehunga
8836	Electricity works (substation)	120 Mays Road, Te Papapa
8837	Electricity works (substation)	805 Great South Road, Mount Wellington
8838	Electricity works (substation)	115 Carbine Road, Mount Wellington
8839	Electricity works (substation)	16 Hans Street, Otahuhu
8840	Electricity works (substation)	21-29 Liverpool Street, Auckland Central
8842	The installation, maintenance, repair, replacement, inspection and operation of one 110kV underground electricity transmission line ...	410 Albany Highway to State Highway 1 (Constellation Drive), Rosedale and along Currys Lane, Wairau Valley
8843	Lapsed	
8844	Electricity works (substation)	135 McLeod Road, Te Atatu South
8845	Electricity works (substation)	8 Woodford Avenue, Henderson
8846	Electricity works (substation)	14 Titirangi Road, New Lynn
8847	Electricity works (substation)	6 Clinker Place, New Lynn
8848	Electricity works (substation)	15 Waikaukau Road, Glen Eden
8849	Electricity works (substation)	140-142 Henderson Valley Road, Henderson
8850	Electricity works (Henderson Branch Depot)	45-49 Keeling Road, Henderson
8851	Lapsed	
8852	Electricity works (substation)	647 West Coast Road, Oratia
8853	Electricity works (substation)	37 Don Buck Road, Massey
8854	Electricity works (substation)	44-50 Sabulite Road, Kelston
8855	Electricity works (substation)	28 Royal View Road, Te Atatu
8856	Electricity works (substation)	1 Trig Road, Whenuapai
8857	Electricity works (substation)	606 Swanson Road, Swanson
8858	Electricity works (substation)	173-183 Triangle Road, Massey
8859	Electricity works (substation)	86 Atkinson Road, Titirangi
8860	Electricity works (substation)	171 Simpson Road, Henderson
8861	Electricity works (substation)	449 Huia Road, Laingholm
8862	Electrical works (substation)	496 Mill Road, Ardmore
8863	Electrical works (substation)	6 Smiths Avenue, Papakura
8864	Electricity works (substation)	32A Red Beach Road, Red Beach
8865	Electricity works (substation)	1 Wyn Close, Kaukapakapa
8866	Electricity works (substation)	Mahurangi East Road (Lot 1 DP 426584), Snells Beach
8867	Electricity works (substation)	1 Don McKinnon Drive, Albany
8868	Electricity works (substation)	179 Bush Road, Rosedale
8869	Electricity works (substation)	59 Andersons Road, Albany
8870	Electricity works (substation)	161-167 Bayswater Avenue, Takapuna
8871	Electricity works (substation)	82A Eskdale, Birkenhead
8872	Electricity works (substation)	5A Balmain Road, Birkenhead
8873	Electricity works (substation)	16-18 Plumer Street, Auckland Central

8874	Electricity works (substation)	13-21 Hobson Street, Auckland Central
8875	Electricity works (substation)	497 East Coast Road, Mairangi Bay
8876	Electricity works (substation)	27 James Street, Glenfield
8877	Electricity works (substation)	220 Kyle Road, Greenhithe
8878	Electricity works (substation)	1B Jutland Road, Takapuna
8879	Electricity works (substation)	18 Highbury Bypass, Birkenhead
8880	Electricity works (substation)	2B East Coast Road, Milford
8881	Electricity works (substation)	51 Lake Road, Northcote
8882	Electricity works (substation)	228 Sunset Road, Mairangi Bay
8883	Electricity works (substation)	27 Northcote Road, Northcote
8884	Electricity works (substation)	40A Glenvar Road, Torbay
8885	Electricity works (substation)	4A Wairau Road, Takapuna
8886	Electricity works (substation)	53 Carlisle Road, Browns Bay
8887	Electricity works (substation)	248A East Coast Road, Forrest Hill
8888	Electricity works (substation)	29 Huron Street, Takapuna
8889	Electricity works (substation)	Pakiri Block Road (Pt Sec 9 SO 45197), Tomarata
8890	Electricity works (substation)	1423 State Highway 1, Wellsford
8891	Electricity works (substation)	Leigh Road (Pt Allot 31 SO 64696), Big Omaha
8892	Electricity works (substation)	Matakana Road (Pt Allot 37 SO 1150), Warkworth
8893	Electricity works (substation)	23 Dawson Road, Snells Beach
8894	Electricity works (substation)	140 West Hoe Heights, Orewa
8895	Electricity works (substation)	East Coast Road (Pt Allot 207 SO 40267), Silverdale
8896	Electricity works (substation)	42-44 Homestead Road, Whangaparaoa
8897	Electricity works (substation)	91 Gulf Harbour Drive, Hobbs Bay
8898	Electricity works (substation)	52-56 Awaroa and 139-143 Rautawhiri Roads, Helensville
8899	Electricity works (substation)	Horseshoe Bush Road (Pt Allot 141 SO 46462), Dairy Flat
8900	Electricity works (substation)	Glenmore Road (Pt Allot 619 SO 47367), Coatesville
8901	Electricity works (substation)	1 Factory Road, Waimauku
8902	Electricity works (substation)	Riverhead Road (Lot 2 DP 152051), Riverhead
8903	Electricity works (substation)	99 Lincoln Street, Ponsonby
8904	Communications hut (radio)	505 and 509A Dairy Flat Highway (State Highway 17), Lucas Heights
8905	Electricity works (substation)	115 Rosedale Road, Rosedale
8906	Electricity works (substation)	105 Hillsborough Road, Hillsborough
8907	Electricity works (substation)	10 Nicholas Street, Auckland Central
8908	Electricity works (substation)	3 Bethells Road, Waitakere Village

8909	Electricity works (substation)	5 Glenmore Drive, Warkworth
8910	Electricity works (substation)	1 Westgate Drive, Westgate
8911	Electricity works (substation)	1 Papakura-Clevedon Road, Papakura
8912	Electricity works (substation)	439 Hobsonville Road, Hobsonville Point (also known as 98 Buckley Avenue)
8913	Electricity works (substation)	2 Jerry Green Street, Wiri
8914	Electricity works (substation)	16 Highgate Parkway, Silverdale
8915	Electricity works (substation)	5 Pencaitland Drive, Flat Bush
8916	Electricity works (substation)	6 Stud Way, Mount Wellington
8917	Electricity works (substation)	61 Fred Taylor Drive, Whenuapai
8918	Electricity transmission - the Massey North Underground Cable Project, comprising a 110kV underground transmission line	11 Westgate Drive, Massey to 20 Northside Drive, Whenuapai

## 8800 Otara Substation

Designation Number	8800
Requiring Authority	Vector Ltd
Location	285 East Tamaki Road, Otara
Rollover Designation	Yes
Legacy Reference	Designation 128, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8801 Pakuranga Substation

Designation Number	8801
Requiring Authority	Vector Ltd
Location	10 Udys Road, Pakuranga
Rollover Designation	Yes
Legacy Reference	Designation 129, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8802 Wiri Substation

Designation Number	8802
Requiring Authority	Vector Ltd
Location	103 Wiri Station Road, Manukau
Rollover Designation	Yes
Legacy Reference	Designation 130, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

### 8803 Bairds Substation

Designation Number	8803
Requiring Authority	Vector Ltd
Location	1 Laxon Avenue, Otara
Rollover Designation	Yes
Legacy Reference	Designation 131, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.



## 8804 Mangere East Substation

Designation Number	8804
Requiring Authority	Vector Ltd
Location	80 Raglan Street, Papatoetoe
Rollover Designation	Yes
Legacy Reference	Designation 132, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e.no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8805 Flatbush South Substation

Designation Number	8805
Requiring Authority	Vector Ltd
Location	142 Boundary Road, Otara
Rollover Designation	Yes
Legacy Reference	Designation 133, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	31 August 2027

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8806 South Howick Substation

Designation Number	8806
Requiring Authority	Vector Ltd
Location	39 Whitford Road, Howick
Rollover Designation	Yes
Legacy Reference	Designation 134, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

### 8807 Maraetai Substation

Designation Number	8807
Requiring Authority	Vector Ltd
Location	140R-142 Maraetai Drive, Maraetai
Rollover Designation	Yes
Legacy Reference	Designation 135, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8808 Manurewa Substation

Designation Number	8808
Requiring Authority	Vector Ltd
Location	28 Weymouth Road, Manurewa
Rollover Designation	Yes
Legacy Reference	Designation 136, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8809 Greenmount Substation

Designation Number	8809
Requiring Authority	Vector Ltd
Location	15 Nandina Avenue, Greenmount
Rollover Designation	Yes
Legacy Reference	Designation 137, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8810 Clendon Substation

Designation Number	8810
Requiring Authority	Vector Ltd
Location	418 Roscommon Road, Manurewa
Rollover Designation	Yes
Legacy Reference	Designation 138, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8811 Howick Substation

Designation Number	8811
Requiring Authority	Vector Ltd
Location	72 Hutchinson Road, Howick
Rollover Designation	Yes
Legacy Reference	Designation 139, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.



## 8812 Mangere Central Substation

Designation Number	8812
Requiring Authority	Vector Ltd
Location	2 Canning Crescent, Mangere
Rollover Designation	Yes
Legacy Reference	Designation 140, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

### 8813 Newmarket Substation

Designation Number	8813
Requiring Authority	Vector Ltd
Location	1 Gillies Avenue, Epsom
Rollover Designation	Yes
Legacy Reference	Designation D09-37, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8814 Rosebank Substation

Designation Number	8814
Requiring Authority	Vector Ltd
Location	355 Rosebank Road, Avondale
Rollover Designation	Yes
Legacy Reference	Designation E02-07, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8815 Mt Albert Substation

Designation Number	8815
Requiring Authority	Vector Ltd
Location	867B New North Rd, Mt Albert
Rollover Designation	Yes
Legacy Reference	Designation E05-26, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8816 Remuera Substation

Designation Number	8816
Requiring Authority	Vector Ltd
Location	2-4 Minto Road, Remuera
Rollover Designation	Yes
Legacy Reference	Designation E12-05, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8817 St Johns Substation

Designation Number	8817
Requiring Authority	Vector Ltd
Location	60 College Road, St Johns
Rollover Designation	Yes
Legacy Reference	Designation E14-04, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8818 Freemans Bay Substation

Designation Number	8818
Requiring Authority	Vector Ltd
Location	98 Franklin Road, Freemans Bay
Rollover Designation	Yes
Legacy Reference	Designation B07-35, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8819 Newton Substation

Designation Number	8819
Requiring Authority	Vector Ltd
Location	12 Dundonald Street, Eden Terrace
Rollover Designation	Yes
Legacy Reference	Designation C08-19, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.



## 8820 Parnell Substation

Designation Number	8820
Requiring Authority	Vector Ltd
Location	27-29 Ruskin Street, Parnell
Rollover Designation	Yes
Legacy Reference	Designation C10-29, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8821 Orakei Substation

Designation Number	8821
Requiring Authority	Vector Ltd
Location	4 Thatcher Street, Mission Bay
Rollover Designation	Yes
Legacy Reference	Designation C13-05, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

### 8822 St Heliers Substation

Designation Number	8822
Requiring Authority	Vector Ltd
Location	58-60 Kesteven Avenue, Glendowie
Rollover Designation	Yes
Legacy Reference	Designation C16-05, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8823 Point Chevalier Substation

Designation Number	8823
Requiring Authority	Vector Ltd
Location	1094 Great North Road, Point Chevalier
Rollover Designation	Yes
Legacy Reference	Designation D05-05, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

## 8824 Kingsland Substation

Designation Number	8824
Requiring Authority	Vector Ltd
Location	1A Central Road, Kingsland
Rollover Designation	Yes
Legacy Reference	Designation D07-22, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8825 Glen Innes Substation

Designation Number	8825
Requiring Authority	Vector Ltd
Location	83 West Tamaki Road, Glen Innes
Rollover Designation	Yes
Legacy Reference	Designation D15-07, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8826 Balmoral Substation

Designation Number	8826
Requiring Authority	Vector Ltd
Location	250 Balmoral Road, Sandringham
Rollover Designation	Yes
Legacy Reference	Designation E07-20, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. Where any construction works include the total or substantial demolition of, or, modifications to, the Substation, any outline plan that is required shall include:
  - a) An assessment of the effects on the historic heritage values of the Substation;
  - b) A consideration of alternative practicable methods and/or appropriate mitigation to prevent or avoid damage, loss or destruction of those features for which the Substation has been scheduled.
2. In recognition that the Substation is part of the existing Auckland electricity network, this condition shall not apply:
  - a) To any works that
    - i) involve the installation, replacement or removal of any cables or antenna, including any associated exterior works;
    - ii) are required to meet Health and Safety requirements;
    - iii) involve the installation, replacement or removal of signage required for safety reasons and to reflect the electricity hazard present on the site;
    - iv) involve upgrading of any fencing required around the site;
    - v) are required for any structural strengthening required to be undertaken to the Substation to ensure the Substation is reasonably structurally sound, acknowledging that such strengthening is to be undertaken in a way that does not detract from those features for which the Substation has been scheduled.
  - b) To the repair or maintenance of, or minor alteration to, the Substation.
  - c) Where there is a conservation plan or similar plan for the management of the Substation and the proposed new works are in accordance with this conservation or similar plan.

### Attachments

No attachments.



### 8827 Avondale Substation

Designation Number	8827
Requiring Authority	Vector Ltd
Location	3 Chalmers Street, Avondale
Rollover Designation	Yes
Legacy Reference	Designation F04-08, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

## 8828 Sandringham Substation

Designation Number	8828
Requiring Authority	Vector Ltd
Location	249 Mount Albert Road, Sandringham
Rollover Designation	Yes
Legacy Reference	Designation F06-07, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

### 8829 McNab Substation

Designation Number	8829
Requiring Authority	Vector Ltd
Location	11 McNab Street, Penrose
Rollover Designation	Yes
Legacy Reference	Designation G12-08, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

## 8830 The Drive Substation

Designation Number	8830
Requiring Authority	Vector Ltd
Location	62-66 The Drive, Epsom
Rollover Designation	Yes
Legacy Reference	Designation F09-01, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. Where any construction works include the total or substantial demolition of, or, modifications to, the Substation, any outline plan that is required shall include:
  - a) An assessment of the effects on the historic heritage values of the Substation;
  - b) A consideration of alternative practicable methods and/or appropriate mitigation to prevent or avoid damage, loss or destruction of those features for which the Substation has been scheduled.
2. In recognition that the Substation is part of the existing Auckland electricity network, this condition shall not apply:
  - a) To any works that
    - i) involve the installation, replacement or removal of any cables or antenna, including any associated exterior works;
    - ii) are required to meet Health and Safety requirements;
    - iii) involve the installation, replacement or removal of signage required for safety reasons and to reflect the electricity hazard present on the site;
    - iv) involve upgrading of any fencing required around the site;
    - v) are required for any structural strengthening required to be undertaken to the Substation to ensure the Substation is reasonably structurally sound, acknowledging that such strengthening is to be undertaken in a way that does not detract from those features for which the Substation has been scheduled.
  - b) To the repair or maintenance of, or minor alteration to, the Substation.
  - c) Where there is a conservation plan or similar plan for the management of the Substation and the proposed new works are in accordance with this conservation or similar plan.

## Attachments

No attachments.

## 8831 Penrose Portal and Penrose to Hobson Street Tunnel

Designation Number	8831
Requiring Authority	Vector Ltd
Location	19 Gavin Street, Ellerslie to 13-21 Hobson Street, Auckland
Rollover Designation	Yes
Legacy Reference	Designation F12-42, Auckland Council District Plan (Isthmus Section) 1999 Designation 288, Auckland Council District Plan (Central Area Section) 2005; Designation B08-03, Auckland Council District Plan (Isthmus Section) 1999.
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity transmission purposes: Penrose Portal (Gavin Street), Penrose to Hobson Street tunnel for the purposes of conveying electricity to the CBD.

The construction, operation and maintenance of:

- a. An underground tunnel from Transpower New Zealand Limited's ("Transpower") existing substation at Gavin Street, Penrose, to Vector Limited's ("Vector") existing substations at Liverpool Street and Hobson Street for the purpose of conveying electricity to the Auckland Central Business District ("CBD"), together with all ancillary and related infrastructure including portals and ventilation fans. The tunnel will contain electric cables, with a maximum anticipated capacity of three 220kV circuits of 500MVA each and ancillary equipment;
- b. Electric cables contained within the tunnel. It is initially proposed to install two circuits of 110kV circuits at 230MVA each, and ancillary equipment. It is intended to upgrade the electricity supply carried through the tunnel over the next 10-20 years in response to load growth and other alterations to the network. It is anticipated that any future upgrades will result in a maximum capacity of three 220kV circuits at 500MVA each and ancillary equipment; and
- c. The construction and operation of a building containing 110kV and future 220kV gas insulated switch gear and three future 220/110kV transformers at an extension to Vector's Liverpool substation site.

### Conditions

#### 1. General

- 1.1 Except as modified by the conditions below, the work shall be undertaken in general accordance with the information provided by Vector at the hearing; the notice of requirement and supporting documents, namely: "Electricity Reinforcement Project, Tunnel to Auckland Central Business District, Assessment of Environmental Effects", February 1996, Tonkin and Taylor Ltd, and the associated Addendum dated 8 March 1996.
- 1.2 All activities, works and buildings not able to be fully disclosed in the notice of requirement (including the associated Assessment of Effects) and not provided for as a permitted activity shall be the subject of either:
  - a. A new notice of requirement, which shall be publicly notified, pursuant to Section 168 of the Resource Management Act; or

- b. A notice to alter the designation, pursuant to section 181 of the Resource Management Act, which notice shall be publicly notified unless the alteration is minor and the affected persons agree in accordance with the provisions of Section 181(3) of the Act; or
  - c. A resource consent.
- 1.3 When the tunnel, or any length of it, is no longer required, the length no longer required shall be backfilled to prevent subsidence.
- 1.4 All heated air and contaminated air from the tunnel and associated work shall be disposed of in a way which avoids creating a nuisance or hazard to people and other property.
- 1.5 The cables and associated equipment shall be designed, installed, and operated so as to, as far as practicable, minimise public exposure to electric and magnetic fields.
- 1.6 Upon request from Council, at no lesser intervals than annually, Vector shall provide written confirmation that the maximum levels of the electric and magnetic fields set out in the AEE are not exceeded.
- 1.15 All internal and external Council costs of monitoring the conditions are to be borne by the requiring authority.
- 1.16 Vector shall not permit access to the tunnel for use by any third party which would negate the opportunity for Vector, Transpower New Zealand Limited, Power New Zealand Limited, Northpower Limited and/or Top Energy Limited (or their successors) to use the tunnel for the purpose of installing transmission lines at a voltage at or exceeding 110 kV and up to 220 kV, without first advising each of such companies.
- 2.4 All plant associated with the long term operation of the tunnel (not including Transpower's operations at the Transpower site) is to be designed, constructed, and maintained to ensure that the following noise levels are not exceeded:
- a. Noise measured at or within the boundary of any property except those with a business activity zoning:

Monday to Saturday	7.00am-10.00pm	L10 55 dBA
Sunday and Public Holidays	9.00am-6.00pm	L10 55 dBA
	At all other times	L10 45 dBA Lmax 75 dBA, or background (L95) plus 30 dBA, whichever is the lower

- b. Noise measured at any time at or within the boundary of any property zoned business activity: L10 65 dBA
- 2.5 Measurement and assessment shall be in accordance with the requirements of NZS 6801:1999 "Measurement of Environmental Sound" and NZS 6802:1999 "Assessment of Environmental Noise". The noise shall be measured with a sound level meter complying at least with the International Standard IEC 651 (1979): Sound Level Meters, Type 1.

## **7A. Hazardous Substances**

- 7A.1 The storage and use of hazardous substances at the Hobson, Newmarket, and Penrose Portals shall be in accordance with the “Vector Tunnel Project Hazardous Substances Assessment of Environmental Effects” undertaken by Tonkin and Taylor Ltd and dated May 1999.
- 7A.2 The areas of the Hobson, Newmarket and Penrose Portals immediately involved in the storage, loading, unloading, using or otherwise handling of waste and other hazardous substances, shall be protected by spill containment systems that shall comply with the following:
- a. Be constructed of impervious material that are resistant to the hazardous substances involved;
  - b. Be able to contain the maximum volume of the largest tank used; and
  - c. Be designed, constructed and managed so that any spill or release of any hazardous substance and any stormwater that may have entered and become contaminated in the spill containment system is prevented from entering the stormwater system and is prevented from discharging into or onto the land or groundwater, any water body, or potable water supply.
- 7A.3 Prior to construction of the spill containment systems referred to in Condition 7A.2 above, Vector shall produce a spill contingency plan, an emergency evacuation plan, a health and safety plan, and a fire safety plan for the Hobson, Newmarket and Penrose Portals to the satisfaction of Council. Vector shall comply with these plans at all times.

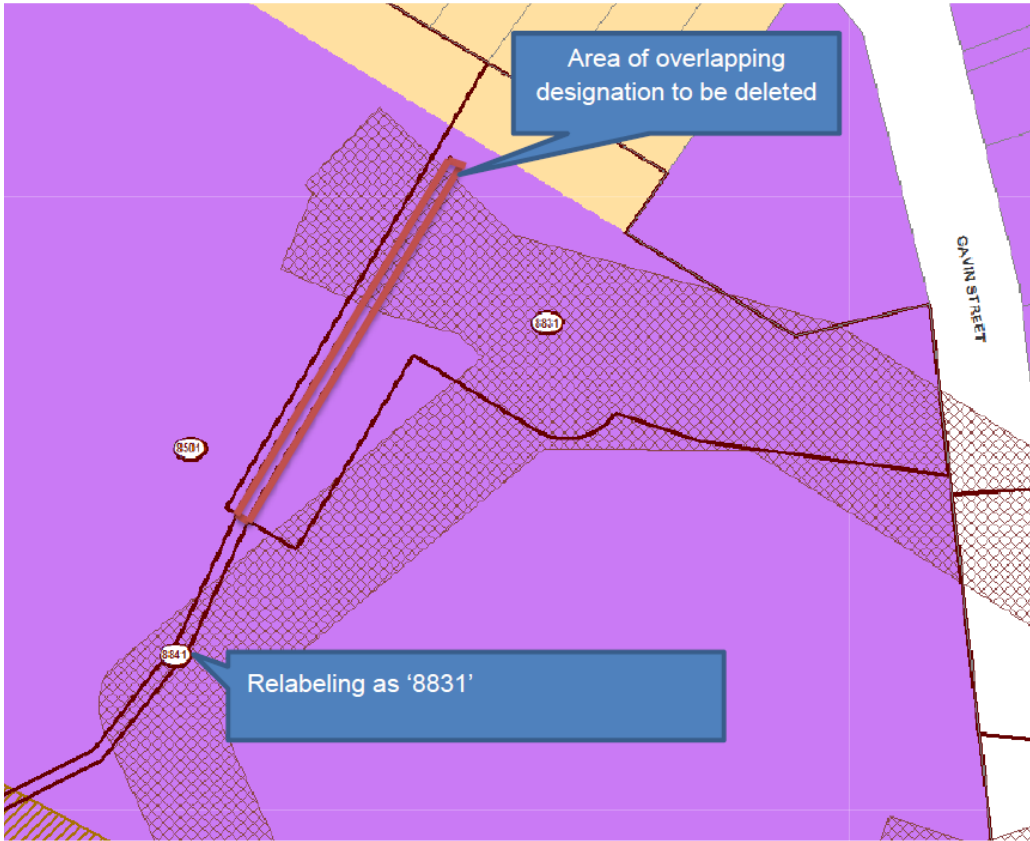
#### **Advice Notes**

The Penrose substation site is subject to an existing Transpower designation (Penrose Substation) and an existing Council designation (Proposed Accessway, Gavin St to McNab St Subway). As such the Vector designation is to be identified as the later designation in the Unitary Plan. The provisions of Section 177 of the Resource Management Act 1991 apply accordingly.

#### **Attachments**

#### **8831 Penrose to Hobson Street Tunnel and Penrose Portal**





### 8832 Mt Wellington Substation

Designation Number	8832
Requiring Authority	Vector Ltd
Location	111 Mount Wellington Highway, Mount Wellington
Rollover Designation	Yes
Legacy Reference	Designation F14-22, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8833 White Swan Substation

Designation Number	8833
Requiring Authority	Vector Ltd
Location	36-38 White Swan Road, Mount Roskill
Rollover Designation	Yes
Legacy Reference	Designation G05-06, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity substation purposes.

#### Conditions

No conditions.

#### Attachments

No attachments.

## 8834 Rockfield Substation

Designation Number	8834
Requiring Authority	Vector Ltd
Location	66-70 Rockfield Road, Penrose
Rollover Designation	Yes
Legacy Reference	Designation G11-12, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8835 Onehunga Substation

Designation Number	8835
Requiring Authority	Vector Ltd
Location	77 Selwyn Street, Onehunga
Rollover Designation	Yes
Legacy Reference	Designation H09-19, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8836 Te Papapa Substation

Designation Number	8836
Requiring Authority	Vector Ltd
Location	120 Mays Road, Te Papapa
Rollover Designation	Yes
Legacy Reference	Designation H11-15, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

### 8837 Westfield Substation

Designation Number	8837
Requiring Authority	Vector Ltd
Location	805 Great South Road, Mount Wellington
Rollover Designation	Yes
Legacy Reference	Designation H13-03, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

### 8838 Carbine Substation

Designation Number	8838
Requiring Authority	Vector Ltd
Location	115 Carbine Road, Mount Wellington
Rollover Designation	Yes
Legacy Reference	Designation H14-12, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.



### 8839 Hans Substation

Designation Number	8839
Requiring Authority	Vector Ltd
Location	16 Hans Street, Otahuhu
Rollover Designation	Yes
Legacy Reference	Designation J13-10, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

## 8840 Liverpool Substation

Designation Number	8840
Requiring Authority	Vector Ltd
Location	21-29 Liverpool Street, Auckland Central
Rollover Designation	Yes
Legacy Reference	Designation 286, Auckland Council District Plan (Central Area Section) 2005
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. The work shall be undertaken in general accordance with Plans Ref.58201 A055, dated 21.08.97, and A130 and A131 dated July 97. No outline plan shall be required under Section 176A of the Resource Management Act 1991 for work undertaken in general accordance with these Plans.

### Attachments

No attachments.

## 8842 110kV Electricity Line

Designation Number	8842
Requiring Authority	Vector Ltd
Location	410 Albany Highway to State Highway 1 (Constellation Drive), Rosedale and Currys Lane, Wairau Valley
Rollover Designation	Yes
Legacy Reference	Designation 179, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	The designation will lapse on 31 August 2032 unless given effect to.

### Purpose

The installation, maintenance, repair, replacement, inspection and operation of one 110kV underground electricity transmission line and associated telecommunication cables and the minor above ground structures associated therewith, within a corridor.

### Conditions

1. The alignment and width of the North Shore Transmission Corridor shall be generally in accordance with that described in Appendix A to the 2001 Notice of Requirement as amended by the 2005 Alteration to the Designation (LUC/2120374) and the 2012 Alteration to the Designation and shall be demarcated on the Auckland Unitary Plan Maps accordingly.
2. That prior to any works being commenced, Vector Limited shall obtain all requisite regional resource consents required by the Auckland Council under the Resource Management Act 1991.
3. Any land taken or held for the works shall be maintained to a reasonable standard until physical works commence.
4. The cables and associated equipment shall be designed, installed and operated so as to meet the NZ National Radiation Laboratory guidelines (as confirmed by the International Commission on Non-Ionizing Radiation Protection, ICNIRP) for general public 24hrs/day exposure.
5. In the event that electricity supply will need to be shut down for planned periods during construction, Vector Limited shall advise Watercare Services Ltd of the time and duration of the intended shut down at least 48 hours in advance.
6. Vector Limited shall submit an Outline Plan of Works to Auckland Council in accordance with Section 176A of the Resource Management Act 1991. In addition to the matters listed in Section 176A(3), the Outline Plan shall describe and include details on the following:
  - a. The alignment of the cable(s) within the corridor and the width of the corridor.
  - b. The distance that any trench will be located from residential zoned properties and the depth of that trench and any measures to prevent the movement of earth on adjoining properties.
  - c. The location, size, function and effects (including noise) of all above-ground structures.
  - d. Measures to avoid, remedy or mitigate the potential effects of construction and maintenance activities on existing water, stormwater and wastewater services;

- e. Measures to avoid, remedy or mitigate the potential effects arising from the physical presence of the cable on the operation of water, stormwater and wastewater services;
- f. Measures to avoid, remedy or mitigate the potential effects arising from the physical presence of the cable on the future construction of water, stormwater and wastewater services;
- g. The minor extension to the Wairau Road substation; and .
- h. Such other matters as required to satisfy the conditions of this designation.

### **Services**

- 7. During the detailed design and subsequent construction activities, Vector Limited and its agents shall liaise with Watercare Services Ltd prior to undertaking any work in relation to the designation and shall ensure that all existing utility services located in or adjacent to the designation are:

Protected from any activity which may interfere with the proper functioning of the services; and

If damaged, repaired or replaced; Any costs associated with the protection, repair or replacement of existing services maintained by the Council shall be at Vector's expense, to the reasonable satisfaction of Watercare Services Ltd.

- 8. All cables shall be installed in accordance with the relevant New Zealand Codes of Practice, including NZECP 34 and 35.
- 9. When laying the cable close to existing metallic pipelines Vector Limited shall ensure the associated service does not breach the requirements of AS/NZS 4653:2000.
- 10. Vector Limited shall undertake a safety study, as part of the detailed design process, to demonstrate that induced and transferred potentials to other services would not be hazardous to personnel working on those services. An appropriate independent body shall review the study and recommend any relevant design modifications.
- 11. Vector Limited shall review the possible effects that electric and magnetic fields may have on other existing underground services within the corridor, ensuring that all practicable measures are taken to minimise those effects.
- 12. The 'as-built' plans (in accordance with the Council's Asset Data Standards manual) shall be submitted to the Council immediately after the completion of all construction.

### **Property Access**

- 14. Vehicular and pedestrian access shall be maintained to the Wastewater Treatment Plant, Rosedale Park and Rosedale Park South at all times during construction.
- 15. In the event that Vector Limited requires access to the North Shore Transmission Corridor via the Wastewater Treatment Plant site for construction and maintenance activities, all personnel and contractors of Vector Limited are to comply with access controls and health and safety requirements applying to the Wastewater Treatment Plant site.

### **Trees**

- 16. A Vegetation Mitigation Plan shall be prepared prior to the commencement of construction works within the corridor and shall be subject to the prior approval of the Auckland Council's Manager - Parks, Sports and Recreation Department. The purpose of the Vegetation Mitigation Plan is to set out the measures for works around any protected trees and shall contain appropriate measures:

- a. To minimise the impact on protected trees, wherever possible;
- b.. To develop a staged landscape plan for the remnant orchard trees in the George Pannill Reserve which includes suitable consultation with the Manager - Parks, Sports and Recreation Department and with local residents. The purpose of this landscape plan is to retain the general character of the orchard remnant and improve the overall amenity of the area;
- c. To indicate that where trees are required to be removed, these be replaced or replaced in close proximity, on a tree for tree basis, unless otherwise directed by the Manager - Parks, Sports and Recreation Department and that the replacement planting is maintained in accordance with the design infrastructure manual for a period of 18 months following planting; and
- d. To reasonably minimise the need for removal of large trees and other vegetation which provide visual screening of the Wastewater Treatment Plant site from residential areas, Rosedale Park and Rosedale Park South.

The landscape plan for the George Pannill Reserve shall be prepared well in advance of construction to enable discussion with the Manager - Parks, Sports and Recreation Department and reflect suitable consultation with local residents. For the purposes of this condition, the monetary limit of any Vector Limited contribution pursuant to both this designation and Designation 179A to fruit tree replacement in the George Pannill Reserve shall be \$2500 (plus GST). As part of the Vegetation Mitigation Plan, Vector Limited shall provide suitable planting within that part of the corridor that adjoins the rear boundary of 16 Jade Court, Albany.

- 17. In the event that trees providing visual screening to the Wastewater Treatment Plant Site need to be removed as a result of the installation of proposed underground cables, Vector Limited, in consultation with Watercare Services Ltd and the Council's Manager - Resource consents and compliance, shall, where practicable, plant suitable replacement trees to provide a similar level of visual screening from residential areas, Rosedale Park and Rosedale Park South as existed prior to the removal of the trees.

#### **Watercourses/Open Channels**

- 18. Crossings over open channels and watercourses will need to be above the 1% AEP flood plain level with an adequate freeboard provided. Alternatively if a cable crossing is proposed to go under a watercourse, then adequate cover and protection will need to be provided to allow for possible future channel erosion and for channel maintenance activities. Adequate cover and protection will also be required where the cables cross pipes and other stormwater assets. Details of the channel and watercourse crossings shall be submitted to the Council's Manager - Resource consents and compliance for approval.

In particular the following crossings need to be fully assessed:

- a. The Oteha Stream tributary between Albany Highway and Vanderbilt Parade;
- b. The Oteha Stream tributary between Vanderbilt Parade and Northwood Avenue;
- c. The Alexandra Stream near Bush Road;
- d. The concrete lined channels between Sunnynook Road and Porana Road; and
- e. The Wairau channel near the substation.

#### **Traffic Disturbance**

- 19. A Traffic Management Plan shall be submitted to the Road Controlling Authority (i.e. Auckland Transport) for approval, at least 20 working days prior to the commencement of construction of each cable length. Construction activity shall be undertaken in accordance with the approved Traffic Management Plan. The

primary purpose of the Traffic Management Plan is to set out the mitigation measures that will be put in place for that phase of the project to ensure that traffic disruption associated with construction activities is minimised as far as it is practicable.

#### **Dust**

20. Best practicable measures shall be employed (e.g. watering of the construction area) to ensure any dust nuisance beyond the boundary of the corridor is minimised.
21. All spoil shall be removed from the site so that no spoil or construction materials likely to generate dust are stored or stockpiled on site.

#### **Water Quality**

22. Best practicable measures shall be employed to ensure that the discharge of sediment into any water body is avoided or minimised.
23. Excess material shall be placed directly into trucks or bins for removal off site thereby minimising the amount of loose sediment bearing materials on the site.
24. Cesspit filters shall be installed prior to the excavations commencing where there is a risk of runoff to an existing drainage network. This is to be augmented by the use of silt fences where these are able to be installed or are necessary. It is anticipated that silt fences will be primarily used in areas where the works pass close to an open watercourse.
25. Should the excavation require dewatering, then the contractor shall be expected to either discharge the liquids into another part of the trench (e.g. with scoria backfilling) via a portable settling tank, or across a grassed strip (provided the grass was long and a silt fence or cesspit filter was in place down gradient).
26. Backfilling, compaction and grading shall be undertaken as soon as possible after the laying of trenches, followed by re-sowing to re-instate surfaces to a condition which existed before the trenching.

#### **Distance from Residential Boundaries**

27. The trenches for laying underground cables shall be located a minimum distance of 1.5m from any residentially zoned property.

#### **Hours of Work**

28. The hours of work shall be restricted to 7 am to 6 pm Monday to Friday, 8 am to 6 pm Saturday, with no construction work undertaken on Sundays and Public Holidays.

#### **Property Access**

29. Construction of the cable shall be undertaken in such a manner as to ensure that reasonable access to properties on the cable route shall be maintained at all times.

#### **Construction Noise**

30. During construction, New Zealand Noise Standard 6803 NZS: 1999 Acoustics - Construction Noise shall be complied with.
31. Vector Limited and its contractors shall, in addition to complying with all other construction related conditions, take all reasonable steps to prevent or mitigate any nuisance or damage to adjacent properties during construction.

#### **Archaeological**

32. If any archaeological remains are uncovered during construction, Vector Limited shall immediately notify the Council and engage an archaeologist (to be approved by Council) to investigate and report on the importance of the remains.
33. Vector Limited shall immediately advise local kaumatua and the New Zealand Historic Places Trust and cease working in the affected area until all necessary authority required by the New Zealand Historic Places Trust is obtained.

#### **Completion of Construction**

34. On completion of construction, all carriageways, road markings, signs, property access ways, drainage systems and other structures shall be restored to a standard at least comparable to their condition before the commencement of construction and shall be made good as soon as practicable.

#### **Monitoring**

35. Within six (6) months of the commencement of operation of the 110kV underground line Vector Limited shall supply to Council's Manager - Resource Consents and Compliance the results of a magnetic field survey that measures and appropriately illustrates the combined effect of the existing overhead and new underground lines, such field strength measurements to be taken at one metre above ground level and at intervals of not less than 400m or more than 800m along the length of the corridor (excluding roads). The Council may, depending on the significance of the results compared with recognised acceptable thresholds (see eg, condition 5), require a repeat of the survey at a future date to be agreed between the parties
36. That provision be made for the removal of existing trees located in the corridor directly affected by the proposed location of the cable trenches, and that any replacement planting that may be required be determined by consultation and agreement between Vector Limited and Council's Manager - Resource consents and compliance.

#### **Attachments**

No attachments.

## 8844 McLeod Substation

Designation Number	8844
Requiring Authority	Vector Ltd
Location	135 McLeod Road, Te Atatu South
Rollover Designation	Yes
Legacy Reference	Designation V1, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out

### Explanation:

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

### Note:

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.



## 8845 Woodford Substation

Designation Number	8845
Requiring Authority	Vector Ltd
Location	8 Woodford Avenue, Henderson
Rollover Designation	Yes
Legacy Reference	Designation V10, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### **Note:**

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8846 New Lynn Substation

Designation Number	8846
Requiring Authority	Vector Ltd
Location	14 Titirangi Road, New Lynn
Rollover Designation	Yes
Legacy Reference	Designation V11, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Description

Electricity works (substation).

### Purpose

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out

### Explanation:

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

### Note:

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8847 Brickworks Substation

Designation Number	8847
Requiring Authority	Vector Ltd
Location	6 Clinker Place, New Lynn
Rollover Designation	Yes
Legacy Reference	Designation V12, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site. Note: That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8848 Waikaukau Substation

Designation Number	8848
Requiring Authority	Vector Ltd
Location	15 Waikaukau Road, Glen Eden
Rollover Designation	Yes
Legacy Reference	Designation V13, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8849 Henderson Substation

Designation Number	8849
Requiring Authority	Vector Ltd
Location	140-142 Henderson Valley Road, Henderson
Rollover Designation	Yes
Legacy Reference	Designation V14, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8850 Keeling Road Substation

Designation Number	8850
Requiring Authority	Vector Ltd
Location	45-49 Keeling Road, Henderson
Rollover Designation	Yes
Legacy Reference	Designation V15, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments



No attachments.

## 8852 Oratia Substation

Designation Number	8852
Requiring Authority	Vector Ltd
Location	647 West Coast Road, Oratia
Rollover Designation	Yes
Legacy Reference	Designation V17, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8853 Ranui Substation

Designation Number	8853
Requiring Authority	Vector Ltd
Location	37 Don Buck Road, Massey
Rollover Designation	Yes
Legacy Reference	Designation V18, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. The electricity substation shall be constructed in general accordance with "Notice of A Requirement by a Requiring Authority for a Designation Under Section 168 of the Resource Management Act 1991" (being the notice by Vector Limited for a designation for Electricity Supply Purposes - Substation), received by Council on 3rd March 2008 and referenced by Council as LUC 2008 351, including further information submitted to Council as part of the notice of requirement. This includes the proposed landscaping and 1.8 metre high visually permeable fencing along the front and rear boundaries of the site (with the installation of a gate along the front boundary). The landscaping shall be implemented in the first planting season after the construction of the electricity substation.
2. If the final design and layout does not reflect that submitted with the Notice of Requirement, an Outline Plan shall be submitted in accordance with section 176A of the Resource Management Act. This Outline Plan is to include confirmation that the substation has been designed so that it can continue to operate during 1% annual exceedance probability flood events.
3. An Outline Plan shall be submitted in accordance with section 176A of the Resource Management Act prior to the construction of the second transformer. This Outline Plan is to include confirmation that the substation has been designed so that it can continue to operate during 1% annual exceedance probability flood events.
4. Operational noise from the electricity substation shall not exceed the following levels as measured at any residential boundary:
  - a. At all times - 35dBA, L10 (10 minutes); and
  - b. Noise shall be measured and assessed in accordance with "NZS6801:2008 Measure of Sound", and "NZS6802:2008 Assessment of Environmental Sound".
5. The requiring authority shall, at its expense, provide an acoustic report from a suitably qualified, experienced and recognised acoustic engineer within three months of the installation and commissioning

of each of the proposed two transformers demonstrating compliance with the noise levels permitted in condition 4(a) above. The acoustic report shall be submitted to the Manager, Resource Consents and Compliance.

6. The electricity substation shall be designed and constructed so that it can continue to operate during 1% annual exceedance probability flood events.
7. The electricity substation shall comply with New Zealand electric and magnetic field reference limits as documented in the National Radiation Laboratory publication "Electric Magnetic Fields and Your Health" (2001).
8. The requiring authority shall, at its expense, provide a report from a suitably qualified, experienced and recognised electrical engineer within three months of the installation and commissioning of each of the proposed two transformers demonstrating compliance with the electric and magnetic field reference limits permitted in condition 7 above. The report shall be submitted to the Manager, Resource Consents and Compliance.
9. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.
10. Noise from construction activities shall not exceed the limits specified in, and shall be measured and assessed in accordance with, the New Zealand Standard NZS 6803:1999, Acoustics - Construction Noise.
11. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

*Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

**Advice Notes**

1. The requiring authority has confirmed that if, at the time of construction, the adjoining property owners agree, it will replace the existing side boundary fences with 1.8m close boarded fences.
2. That major earthworks may require a regional consent from the Auckland Council.

**Attachments**

No attachments.

## 8854 Sabulite Substation

Designation Number	8854
Requiring Authority	Vector Ltd
Location	44-50 Sabulite Road, Kelston
Rollover Designation	Yes
Legacy Reference	Designation V2, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8855 Te Atatu Substation

Designation Number	8855
Requiring Authority	Vector Ltd
Location	28 Royal View Road, Te Atatu
Rollover Designation	Yes
Legacy Reference	Designation V3, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments



No attachments.

## 8856 Hobsonville Substation

Designation Number	8856
Requiring Authority	Vector Ltd
Location	1 Trig Road, Whenuapai
Rollover Designation	Yes
Legacy Reference	Designation V4, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8857 Swanson Substation

Designation Number	8857
Requiring Authority	Vector Ltd
Location	606 Swanson Road, Swanson
Rollover Designation	Yes
Legacy Reference	Designation WCCV5, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8858 Triangle Substation

Designation Number	8858
Requiring Authority	Vector Ltd
Location	173-183 Triangle Road, Massey
Rollover Designation	Yes
Legacy Reference	Designation V6, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8859 Atkinson Road Substation

Designation Number	8859
Requiring Authority	Vector Ltd
Location	86 Atkinson Road, Titirangi
Rollover Designation	Yes
Legacy Reference	Designation V7, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments



No attachments.

## 8860 Simpson Road Substation

Designation Number	8860
Requiring Authority	Vector Ltd
Location	171 Simpson Road, Henderson
Rollover Designation	Yes
Legacy Reference	Designation V8, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

#### *Explanation:*

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

#### *Note:*

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8861 Laingholm Substation

Designation Number	8861
Requiring Authority	Vector Ltd
Location	449 Huia Road, Laingholm
Rollover Designation	Yes
Legacy Reference	Designation V9, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Description

Electricity works (substation).

### Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
  - a. A statement on the relevant Plan objectives, policies and rules; and
  - b. A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

### Explanation:

While it is accepted that the project or works will be (or should be) in accordance with the designated purpose, the Council wishes to be reasonably assured that the specific works to be carried out will not unnecessarily compromise the objectives, policies and rules of the Plan or adversely affect the environment. The Council's principal opportunity to influence the works to assist the requiring authority to meet its environmental responsibilities is through the outline plan, and the assessment of compliance and effects will assist it in determining whether to request changes.

2. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.

### Note:

That major earthworks may require a regional consent from the Auckland Council.

### Attachments

No attachments.

## 8862 Takanini Substation

Designation Number	8862
Requiring Authority	Vector Ltd
Location	496 Mill Road, Ardmore
Rollover Designation	Yes
Legacy Reference	Designation 7, Auckland Council District Plan (Papakura Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8863 Papakura Substation

Designation Number	8863
Requiring Authority	Vector Ltd
Location	6 Smiths Avenue, Papakura
Rollover Designation	Yes
Legacy Reference	Designation 26, Auckland Council District Plan (Papakura Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8864 Red Beach Substation

Designation Number	8864
Requiring Authority	Vector Ltd
Location	32A Red Beach Road, Red Beach
Rollover Designation	Yes
Legacy Reference	Designation 615, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

- 1A Except as provided for in 1A(c) below, noise from this substation shall not exceed the following noise limits:
- 55 dB  $L_{Aeq}$  between Monday to Saturday 7am to 10pm and Sundays 9am to 6pm and
  - 45 dB  $L_{Aeq}$  /75 dB  $L_{Amax}$  for all other times.
  - Noise from this substation can exceed the limits in (a) and (b) if the adjacent zone has a higher noise limit, provided that the noise limit in that zone is not exceeded.
- 1B Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise", and shall be measured within the boundary of a site or, for the Rural zone, within the notional boundary of a site.
2. The substation shall comply with the International Commission on Nonionising Radiation Protection Guidelines for limiting exposure to time varying electric magnetic fields (1Hz – 100kHz) (Health Physics, 2010, 99(6): 818836) and recommendations from the World Health Organisation monograph Environment Health Criteria (No 238, June 2007)

### Attachments

No attachments.



## 8865 Kaukapakapa Substation

Designation Number	8865
Requiring Authority	Vector Ltd
Location	1 Wyn Close, Kaukapakapa
Rollover Designation	Yes
Legacy Reference	Designation 616, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Description

Electricity works (substation).

### Conditions

#### General

1. The activity shall proceed in general accordance with the Notice of Requirement submitted to Council dated March 2009 and plans drawn by Construkt Architects Limited numbered 202, 401 and 402 (all dated July 2009), provided that the colours shall be as set out below (or their current equivalent if those colours are no longer manufactured):
  - i. Roof - Colorsteel "karaka";
  - ii. Base panels, steel doors, and timber work - Resene "karaka"; and
  - iii. Balance wall panels - Resene "double ash".

Provided further that no element of the proposed substation building shall exceed the 9m height limit above existing ground level and the height in relation to boundary control on the eastern boundary shall not be infringed.

#### Outline Plan

2. If either the final design and layout of the substation does not reflect the design and layout submitted with the Notice of Requirement, or if there are any future additional works proposed that are not permitted by the Unitary Plan, an outline plan shall be submitted in accordance with section 176A of the Resource Management Act 1991 to the Auckland Council, before any construction is commenced. However, where the future additional work

is in accordance with the Notice of Requirement or is permitted by the Unitary Plan, then the requirement for an Outline Plan is waived under section 176A(2).

### **Landscape Plan**

3. The landscaping plan (Isthmus Group Ltd, Job No. 2658 Figure 5, dated March 2009) shown in Appendix 15Z(i), shall be implemented during the first planting season after the construction of the substation. (Provided that the 15 phormium tenax (flax) along the eastern boundary shown on that landscape plan shall be replaced with *griselinia littoralis*.) The landscaping shall be maintained thereafter for the term of the designation.

### **Boundary Planting**

4. The boundary planting comprising both the new planting and the existing planting, and which occupies the area shown on the Covenant Plan (dated July 2009), shall be retained on site for the period which the site is occupied by the substation provided that this condition shall not prevent cables or other services (including stormwater) that may need to be installed across the covenanted area.

Notwithstanding condition 3, the new boundary planting identified in the landscaping plan shall be planted within the first planting season after the designation is incorporated into the Auckland Unitary Plan and shall thereafter be maintained for the duration of the designation.

### **Arborist Supervision**

5. An independent suitably qualified arborist is required to be onsite to supervise the earthworks associated with any works which may affect the driplines and root systems of the boundary trees. Any boundary trees that die as a result of the earthworks will be immediately replaced, in accordance with condition 4 above.

### **Arborist Work**

6. Any alteration to vegetation on the site shall be undertaken in accordance with the report prepared by Nigel Clough of Tree Solutions dated 01 June 2009. This includes:
  - a. The proposed works hereby approved shall proceed in strict accordance with the details set out in the description of works attached to this consent along with any recommendations noted.
  - b. The removal of the subject vegetation shall be undertaken by a suitably qualified arborist, using currently accepted arboricultural dismantling methods and practices, in a manner so as to cause no damage to other vegetation on the site.
  - c. That the trimming of the boundary vegetation shall be undertaken by a suitably qualified arborist, using currently accepted arboricultural pruning methods and standards.
  - d. That the trimming of the boundary vegetation be undertaken prior to the commencement of development works on site.
  - e. That no more of the canopy of boundary vegetation be removed than is necessary to accommodate the proposed substation and allow an unimpeded work space.

- f. That suitable fencing is erected around all vegetation prior to the commencement of works on the site.
- g. The protective fencing is to remain in place until the completion of works on the site.
- h. That Council is informed as to when the proposed planting works have been completed.

**Stormwater**

- 7. Provide onsite detention to limit post development flows to pre development flows in the 1 in 10 year storm events. Details of the design and management of any stormwater infrastructure required shall be prepared and shall be submitted to the Council at least 3 months prior to commencement of construction of the substation.

**Fencing**

- 8. The applicant shall construct a post and batten fence matching the existing fence around the perimeter of the substation site (which will be gated) prior to the substation becoming operational.

**Traffic Management Plan**

- 9. Prior to any construction being undertaken, a temporary Traffic Management Plan shall be submitted to the Council and be approved by the Team Leader Resource consents in consultation with the Road Controlling Authority (i.e. Auckland Transport), should any on-street loading or reversing of trucks onto the road be required.

**Access**

- 10. The following measures shall be implemented prior to the operation of the substation:
  - a. Driveway, access and parking/loading area to be constructed to a best practice standard; and
  - b. A turning area shall be provided to allow vehicles to perform a 180<sup>o</sup> turn to avoid reversing onto the street.

**Operation Noise**

- 11. The noise level (L10) as measured within the boundary of any other site should not exceed the following limits:

Mon to Friday: 0700-1800 hours	45dBA
At all other times including public holidays	40dBA

The noise level shall be measured in accordance with the requirements of NZS6801:2008 Measurement of Sound and assessed in accordance with the requirements of NZS6802:2008 Assessment of Environmental Sound.

## **Construction Noise**

12. Construction activity on the site shall only occur between the following hours:
  - a. Monday to Friday 7:00am to 7:00pm; and
  - b. Saturday 8:00am to 1:00pm.

All construction noise shall comply with and be measured and assessed in accordance with, NZS6803:1999, Acoustics — Construction Noise.

Plate compaction is permitted to exceed the relevant limit by up to 1 decibel (71dB LAeq) and can only be undertaken between 7.30am to 6pm, Monday to Friday.

## **Archaeological**

13. If any artefact, including human remains is exposed during any site works the following procedures shall apply:
  - a. Immediately when an artefact is unearthed, all site works shall cease;
  - b. The site supervisor shall immediately secure the area in a way that ensures any artefacts or remains are untouched; and
  - c. The site supervisor shall notify the following groups that an archaeological site has been unearthed, so that appropriate action can be taken:
    - i. Tangata whenua;
    - ii. The New Zealand Historic Places Trust;
    - iii. The Department of Conservation;
    - iv. The Council's RMA Compliance Administration Officer (telephone 0800426 5169); and
    - v. In the case of human remains the police.

## **Electric Magnetic Field Measurements**

14. The installation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection (ICNIRP): electric field strength: 5 kV/m and magnetic flux density: 100 microtesla.

## **Electric Magnetic Field Measurements**

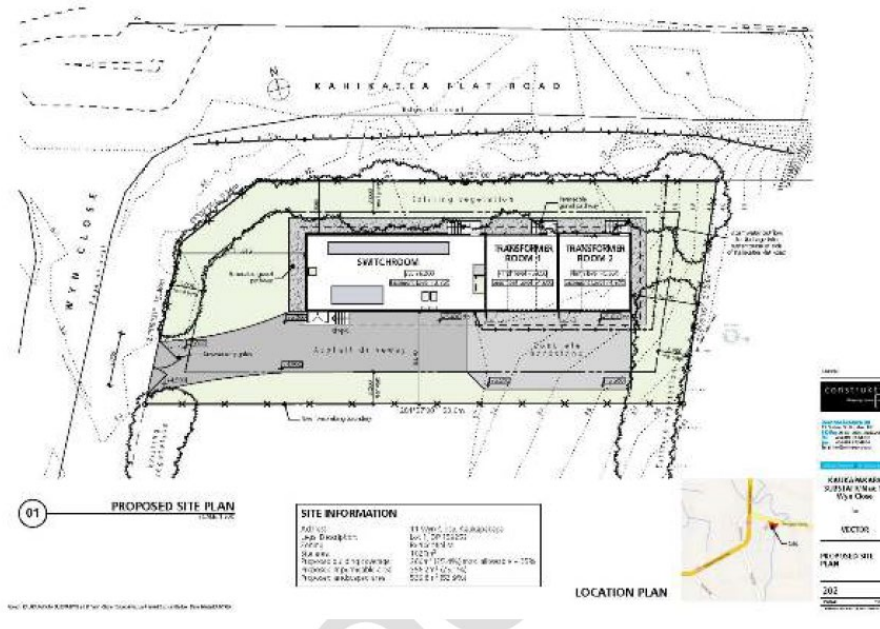
15. The Requiring Authority shall engage a suitably qualified person to carry out measurement of the electric and magnetic fields emitting from this substation to confirm the compliance with the ICNIRP guidelines in effect at the time the substation is constructed. A report with measurement results shall be provided to Council within two months of the substation commencing operation and again within two months of the commencement of operation of the second transformer. The measurement results will be made available for viewing by the public.

## Lapse of Designation

16. This designation shall lapse 10 years from the date it has been confirmed.

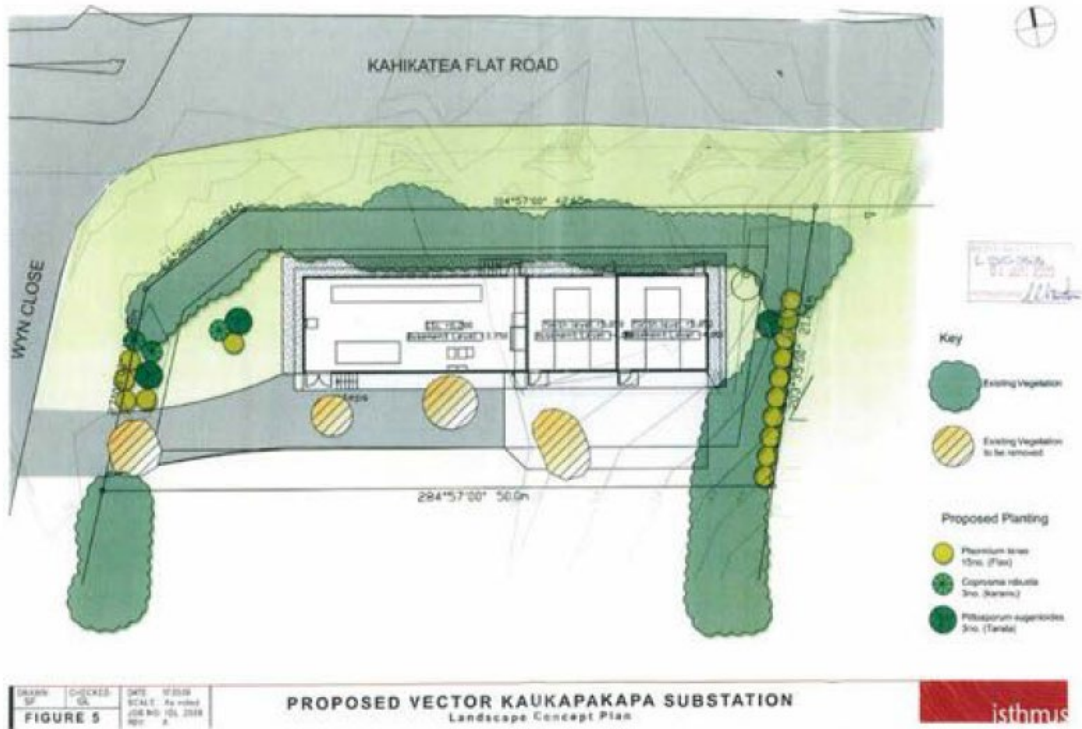
## Attachments

### Site Plan





# Landscape Concept Plan



## 8866 Sandspit Substation

Designation Number	8866
Requiring Authority	Vector Ltd
Location	Mahurangi East Road (Lot 1 DP 426584), Snells Beach
Rollover Designation	Yes
Legacy Reference	Designation 617, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	31 August 2032 unless given effect to prior

### Purpose

Substation.

### Conditions

#### General

1. The activity shall proceed in general accordance with the Notice of Requirement submitted to Council dated 2 April 2009 and the plans drawn by Construkt Architects Limited, including the Proposed Site Plan dated 20/04/09, Basement & Ground Floor Plans and Building Sections plans dated 1/04/09, and the Building Elevation plan dated 7/07/09 all numbered L55148 and signed by Processing Planner Laura Christian, dated 08/06/09.

#### Outline Plan

2. If either the final design and layout of the substation does not reflect the design and layout submitted with the Notice of Requirement, or if there are any future additional works proposed that are not permitted by the Unitary Plan, an outline plan shall be submitted in accordance with section 176A of the Resource Management Act 1991 to the Auckland Council, before any construction is commenced. However, where the future additional work is in accordance with the Notice of Requirement or is permitted by the Unitary Plan, then the requirement for an Outline Plan is waived under s176A(2).

#### Landscape Plan

3. The landscaping plan (Isthmus Group Ltd, Drawing 2633, Figure 5, dated 6/07/09) shown in Appendix 15AA(i), shall be implemented during the first planting season after the construction of the substation. The landscaping shall be maintained thereafter.

#### Fencing



4. The applicant shall construct a post and batten fence around the perimeter of the substation site prior to the substation becoming operational.

#### **Traffic Management Plan**

5. Prior to any construction being undertaken, a temporary Traffic Management Plan is required to be submitted to Council and approved by Manager - Resource consents and Compliance in consultation with Auckland Transport (the road controlling authority).

#### **Access**

6. The following measures shall be implemented prior to the operation of the substation:
  - a. Driveway and access to be constructed to a best practice standard;
  - b. A sightline covenant as shown in the plans provided with the subdivision application (to the east of the driveway) is to be established;
  - c. The small bunch of agapanthus within the road reserve near the driveway crossing for 836 Sandspit Road is to be removed at the cost of the applicant, to the approval of the Manager - Resource Consents and Compliance;
  - d. Further details of the drainage design for the driveway should be provided by the applicant, including culvert size and end treatment; and
  - e. The open channel surrounding the driveway shall be built up to a slope no steeper than 1 in 4 on either side of the driveway.

#### **Construction Noise**

7. Noise from construction activities shall not exceed the limits recommended in and shall be measured and assessed in accordance with, NZS6803:1999, Acoustics — Construction Noise. Note that the noise limit between the hours of 2000 to 0630 weekdays, 1800 to 0630 Saturdays and at all times on Sundays and Public Holidays, may mean that no construction work can take place.
8. (operation noise) The operational noise from the substation shall not exceed the following limits at the notional boundary (notional boundary is defined as a line 20m from the side of a rural dwelling existing as at 1 April 2009, or the legal boundary where this is closer to the dwelling):
  - a. Monday to Saturday: 6:00am to 6:00pm 55 dBA Leq;
  - b. Sundays & Public Holidays: 6:00am to 6:00pm 50 dBA Leq; and
  - c. At all other times: 45 dBA Leq 75 dBA Lmax.

#### **Archaeological**

9. If any artefact, including human remains is exposed during any site works the following procedures shall apply:
  - a. Immediately when an artefact is unearthed, all site works shall cease; and

- b. The site supervisor shall immediately secure the area in a way that ensures any artefacts or remains are untouched; and
- c. The site supervisor shall notify the following groups that an archaeological site has been unearthed, so that appropriate action can be taken:
  - i. Tangata whenua,
  - ii. The New Zealand Historic Places Trust;
  - iii. The Department of Conservation;
  - iv. The Council's RMA Compliance Administration Officer (telephone 301 0101); and
  - v. In the case of human remains the New Zealand Police.

**Lapse**

10. 31 August 2032 unless given effect to prior

**Attachments**

Proposed Vector Sandspit Substation Landscape Concept Plan



## 8867 McKinnon Substation

Designation Number	8867
Requiring Authority	Vector Ltd
Location	1 Don McKinnon Drive, Albany
Rollover Designation	Yes
Legacy Reference	Designation 157, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8868 Bush Road Substation

Designation Number	8868
Requiring Authority	Vector Ltd
Location	179 Bush Road, Rosedale
Rollover Designation	Yes
Legacy Reference	Designation 63, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8869 Browns Bay Substation

Designation Number	8869
Requiring Authority	Vector Ltd
Location	59 Anderson Road, Albany
Rollover Designation	Yes
Legacy Reference	Designation 64, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8870 Belmont Substation

Designation Number	8870
Requiring Authority	Vector Ltd
Location	161-167 Bayswater Avenue, Takapuna
Rollover Designation	Yes
Legacy Reference	Designation 65, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8871 Birkdale Substation

Designation Number	8871
Requiring Authority	Vector Ltd
Location	82A Eskdale Road, Birkenhead
Rollover Designation	Yes
Legacy Reference	Designation 66, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8872 Balmain Substation

Designation Number	8872
Requiring Authority	Vector Ltd
Location	5A Balmain Road, Birkenhead
Rollover Designation	Yes
Legacy Reference	Designation 67, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.



## 8873 Quay Substation

Designation Number	8873
Requiring Authority	Vector Ltd
Location	16-18 Plumer Street, Auckland Central
Rollover Designation	Yes
Legacy Reference	Designation 287, Auckland Council District Plan (Central Section) 2005
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8874 Hobson Substation

Designation Number	8874
Requiring Authority	Vector Ltd
Location	13-21 Hobson Street, Auckland Central
Rollover Designation	Yes
Legacy Reference	Designation 289, Auckland Council District Plan (Central
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8875 East Coast Road Substation

Designation Number	8875
Requiring Authority	Vector Ltd
Location	497 East Coast Road, Mairangi Bay
Rollover Designation	Yes
Legacy Reference	Designation 68, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8876 James Street Substation

Designation Number	8876
Requiring Authority	Vector Ltd
Location	27 James Street, Glenfield
Rollover Designation	Yes
Legacy Reference	Designation 69, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8877 Greenhithe Substation

Designation Number	8877
Requiring Authority	Vector Ltd
Location	220 Kyle Road, Greenhithe
Rollover Designation	Yes
Legacy Reference	Designation 70, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8878 Hauraki Substation

Designation Number	8878
Requiring Authority	Vector Ltd
Location	1B Jutland Road, Takapuna
Rollover Designation	Yes
Legacy Reference	Designation 71, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8879 Highbury Substation

Designation Number	8879
Requiring Authority	Vector Ltd
Location	18 Highbury Bypass, Birkenhead
Rollover Designation	Yes
Legacy Reference	Designation 72, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

## 8880 Milford Substation

Designation Number	8880
Requiring Authority	Vector Ltd
Location	2B East Coast Road, Milford
Rollover Designation	Yes
Legacy Reference	Designation 73, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.



## 8881 Northcote Substation

Designation Number	8881
Requiring Authority	Vector Ltd
Location	51 Lake Road, Northcote
Rollover Designation	Yes
Legacy Reference	Designation 74, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8882 Sunset Road Substation

Designation Number	8882
Requiring Authority	Vector Ltd
Location	228 Sunset Road, Mairangi Bay
Rollover Designation	Yes
Legacy Reference	Designation 75, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8883 Hillcrest Substation

Designation Number	8883
Requiring Authority	Vector Ltd
Location	27 Northcote Road, Northcote
Rollover Designation	Yes
Legacy Reference	Designation 76, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8884 Torbay Substation

Designation Number	8884
Requiring Authority	Vector Ltd
Location	40A Glenvar Road, Torbay
Rollover Designation	Yes
Legacy Reference	Designation 77, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8885 Wairau Valley Substation

Designation Number	8885
Requiring Authority	Vector Ltd
Location	4A Wairau Road, Torbay
Rollover Designation	Yes
Legacy Reference	Designation 78, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8886 Waiake Substation

Designation Number	8886
Requiring Authority	Vector Ltd
Location	53 Carlisle Road, Browns Bay
Rollover Designation	Yes
Legacy Reference	Designation 79, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8887 Forrest Hill Substation

Designation Number	8887
Requiring Authority	Vector Ltd
Location	248A East Coast Road, Forrest Hill
Rollover Designation	Yes
Legacy Reference	Designation 80, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8888 Takapuna Substation

Designation Number	8888
Requiring Authority	Vector Ltd
Location	29 Huron Street, Takapuna
Rollover Designation	Yes
Legacy Reference	Designation 81, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.



### 8889 Tomarata Substation

Designation Number	8889
Requiring Authority	Vector Ltd
Location	Pakiri Block Road (Pt Sec 9 SO 45197), Tomarata
Rollover Designation	Yes
Legacy Reference	Designation 601, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	31 August 2027

#### Purpose

Electricity works (substation).

#### Conditions

No conditions.

#### Attachments

No attachments.

## 8890 Wellsford Substation

Designation Number	8890
Requiring Authority	Vector Ltd
Location	1423 State Highway 1, Wellsford
Rollover Designation	Yes
Legacy Reference	Designation 602, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8891 Omaha Substation

Designation Number	8891
Requiring Authority	Vector Ltd
Location	Leigh Road (Pt Allot 31 SO 64696), Big Omaha
Rollover Designation	Yes
Legacy Reference	Designation 603, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	31 August 2027

### Purpose

Electricity works (substation).

### Conditions

#### Outline Plan

1. An outline plan shall be submitted in accordance with section 176A of the Resource Management Act 1991 to the council before any construction is commenced.

#### Landscape Plan

2. An outline plan submitted to council shall include a detailed landscape plan, including an implementation and maintenance programme.
3. The plan shall include details of the plant sizes at the time of planting and intended species. Preference should be given to the use of indigenous species, with a further preference for the use of local genetic stock. Such a plan shall include appropriate measures to reduce adverse effects on visual amenity and to provide screening of the substation building viewed from neighbouring properties and Omaha Valley Road, Leigh Road and Quintal Road.

#### Operational Noise

- 4A Except as provided for in 4A(c) below, noise from this substation shall not exceed the following noise limits:
  - a. 55 dB LAeq between Monday to Saturday 7am to 10pm and Sundays 9am to 6pm and
  - b. 45 dB LAeq/75 dB LAmax for all other times.
  - c. Noise from this substation can exceed the limits in (a) and (b) if the adjacent zone has a higher noise limit, provided that the noise limit in that zone is not exceeded.
- 4B Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise", and shall be measured within the boundary of a site or, for the Rural zone, within the notional boundary of a site.

## Attachments

No attachments.

## 8892 Warkworth Substation

Designation Number	8892
Requiring Authority	Vector Ltd
Location	Matakana Road (Pt Allot 37 SO 1150), Warkworth
Rollover Designation	Yes
Legacy Reference	Designation 604, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8893 Snells Beach Substation

Designation Number	8893
Requiring Authority	Vector Ltd
Location	23 Dawson Road, Snells Beach
Rollover Designation	Yes
Legacy Reference	Designation 605, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8894 Orewa Substation

Designation Number	8894
Requiring Authority	Vector Ltd
Location	140 West Hoe Heights, Orewa
Rollover Designation	Yes
Legacy Reference	Designation 606, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8895 Spur Road Substation

Designation Number	8895
Requiring Authority	Vector Ltd
Location	East Coast Road (Pt Allot 207 SO 40267), Silverdale
Rollover Designation	Yes
Legacy Reference	Designation 607, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.



## 8896 Manly Substation

Designation Number	8896
Requiring Authority	Vector Ltd
Location	42-44 Homestead Road, Manly
Rollover Designation	Yes
Legacy Reference	Designation 608, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8897 Gulf Harbour Substation

Designation Number	8897
Requiring Authority	Vector Ltd
Location	91 Gulf Harbour Drive, Hobbs Bay
Rollover Designation	Yes
Legacy Reference	Designation 609, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

#### Outline Plan

1. An outline plan shall be submitted in accordance with s. 176A of the Resource Management Act (1991) to the council before any construction is commenced.

#### Landscape Plan

2. An outline plan submitted to council shall include a detailed landscape plan, including an implementation and maintenance programme.
3. The plan shall include details of the plant sizes at the time of planting and intended species. Preference should be given to the use of indigenous species, with a further preference for the use of local genetic stock. Such a plan shall include appropriate measures to reduce adverse effects on visual amenity and to provide screening of the substation building viewed from neighbouring properties and Gulf Harbour Drive, Harbour Village Drive and Laurie Southwick Parade.

#### Operational Noise

- 4A Except as provided for in 4A(c) below, noise from this substation shall not exceed the following noise limits:
  - a. 55 dB  $L_{Aeq}$  between Monday to Saturday 7am to 10pm and Sundays 9am to 6pm and
  - b. 45 dB  $L_{Aeq}$  /75 dB  $L_{Amax}$  for all other times.
  - c. Noise from this substation can exceed the limits in (a) and (b) if the zone or any applicable interface rule has a higher noise limit that would otherwise apply to that boundary of the substation site, provided that the higher noise limit at that boundary is not exceeded.
- 4B Noise levels must be measured in accordance with NZS6801:2008 "Acoustics - Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics - Environmental noise", and shall be measured within the boundary of a site or, for the Rural zone, within the notional boundary of a site.

## Attachments

No attachments.

## 8898 Helensville Substation

Designation Number	8898
Requiring Authority	Vector Ltd
Location	143 Awaroa Road and 56 Rautawhiri Road, Helensville
Rollover Designation	Yes
Legacy Reference	Designation 610, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8899 Horseshoe Bush Substation

Designation Number	8899
Requiring Authority	Vector Ltd
Location	Horseshoe Bush Road (Pt Allot 141 SO 46462), Dairy Flat
Rollover Designation	Yes
Legacy Reference	Designation 611, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8900 Coatesville Substation

Designation Number	8900
Requiring Authority	Vector Ltd
Location	Glenmore Road (Pt Allot 619 SO 47367), Coatesville
Rollover Designation	Yes
Legacy Reference	Designation 612, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8901 Waimauku Substation

Designation Number	8901
Requiring Authority	Vector Ltd
Location	1 Factory Road, Waimauku
Rollover Designation	Yes
Legacy Reference	Designation 613, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8902 Riverhead Substation

Designation Number	8902
Requiring Authority	Vector Ltd
Location	Riverhead Road (Lot 2 DP 152051), Riverhead
Rollover Designation	Yes
Legacy Reference	Designation 614, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.



## 8903 Ponsonby Substation

Designation Number	8903
Requiring Authority	Vector Ltd
Location	99 Lincoln Street, Ponsonby
Rollover Designation	Yes
Legacy Reference	Designation C0605, Auckland City Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

No conditions.

### Attachments

No attachments.

## 8904 Communications Hut (Radio)

Designation Number	8904
Requiring Authority	Vector Ltd
Location	505 and 509A Dairy Flat Highway (State Highway 17), Lucas Heights
Rollover Designation	Yes
Legacy Reference	Designation 83, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Communications hut (radio).

### Conditions

No conditions.

### Attachments

No attachments.

## 8905 Rosedale Substation

Designation Number	8905
Requiring Authority	Vector Ltd
Location	115 Rosedale Road, Rosedale
Rollover Designation	Yes
Legacy Reference	Designation 194 , Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

#### 1. General

- a. That the scope and extent of the works within the designated area be in accordance with the Notice of Requirement, dated 20 December 2012, for the designation of land for “Electrical Works (Substation)”, at 115 Rosedale Road, Pinehill, being Lot 2 DP 459157. For reference, the design and layout plans submitted with the Notice of Requirement are:

Plan	Drawing Number	Dated:
Concept Site Plan – Stage 2	V7-SK02 - Revision	1 07.12.2012
Site Layout and Services	4528-8021 – Revision E Sheet	1 14.12.2012
Concept Sections	V7-SK06 – Revision	1 07.12.2012
Elevations	4258-8022 – Revision 3 Sheet	1 14.12.2012
Concept Elevations	V7-SK05	07.12.2012
Concept Site 3D Images	V7-SK07	07.12.2012
Landscape Plan	4258-8024 – Revision 4 Sheet	1 14.12.2012
Civil Layout and Stormwater Plan	CV-0001 – Revision D	18.12.2012
Erosion and Sediment Control Plan	CV-0003 – Revision A	13.12.2012

- b. The designation shall lapse on the expiry of a period of 10 years after the date it is included in the Unitary Plan in accordance with section 184(1)(c) of the Resource Management Act 1991, unless:
- i. It is given effect to before the end of that period; or

- ii. The Auckland Council determines, on an application made within 3 months before the expiry of that period, that substantial progress or effort has been made towards giving effect to the designation and is continuing to be made, and fixes a longer period under section 184(2)(b) of the Act.

**2. Outline Plan**

The requirement for an Outline Plan has been waived but if the design and layout of the substation does not reflect the design and layout submitted with the Notice of Requirement in accordance with Condition 1, or in the case of any future works, an Outline Plan shall be submitted in accordance with section 176A of the Resource Management Act 1991 to the Auckland Council unless the works are permitted under the provisions of the Unitary Plan.

**3. Noise**

- a. The substation will comply with the following noise control:

At the boundary of any other site	At all times	70dBA Leq
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- b. Noise shall be measured in accordance with the requirements of NZS6801.2008 ‘Acoustics – Measurement of Environmental Sound’ and assessed in accordance with NZS 6802:2008 ‘Acoustics – Environmental Noise’. Noise shall be measured with a sound level meter complying with the international standard Sound Level Meters, Type 1.

**4. Electricity Supply and Distribution Statutes and Regulations**

- a. The substation shall at all times not exceed the reference levels for public exposure to 50Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundaries.
- b. Within 6 months of the substation commencing operation, a noise monitoring report and EMF report with measurement results shall be provided to Auckland Council to confirm the compliance with noise limits set in Condition 3(a) and EMF limits set in Condition 4(a) when the substation is at full capacity and at peak loads.

**5. Tree Protection and Landscaping**

The landscaping shall be undertaken in general accordance with the Vector Limited Drawing 4258-8024 Revision 4 and shall be completed in the first planting season after the construction of the substation.

**6. Earthworks, Erosion and Sediment Control**

- a. The sediment and erosion control plan (SKM Drawing CV-0003 Revision A) shall be implemented during the bulk earthworks.
- b. Development shall take account of any recommendations of existing or future geotechnical reports. A copy of any future report obtained shall be provided for the records of the Council.

**7. Stormwater and Flooding Potential**

The detailed design of the stormwater management system for the site shall be designed and constructed in accordance with the report and supporting plans and documents prepared by SKM titled “Rosedale Flood Assessment Report” (Reference ZP01221), dated 13 December 2012 (Reference ZP01221), and SKM Drawing No. CV-001 – Revision D dated 18 December 2012.

## **8. Traffic Management**

A Traffic Management Plan shall be prepared and submitted to Auckland Transport prior to commencement of the construction of the substation.

## **9. Hazardous Substances**

A site management plan shall be prepared and implemented to address the following:

- a. Monitoring and maintenance of the transformer and the containment systems.
- b. Site housekeeping.
- c. Emergency and spill contingency procedures.

## **10. Archaeology**

In the event that any archaeological sites or remains are discovered during the earthworks, then the works at that place of discovery will cease immediately. The New Zealand Historic Places Trust, kaumatua representing the local Tangata Whenua, the Auckland Council, and the New Zealand Police as appropriate, shall be contacted. Work shall only recommence in the affected area when any necessary statutory authorisations or consents have been obtained.

## **11. Fencing**

The site shall be fully fenced and gated.

## **Attachments**

No attachments.

## 8906 Hillsborough Substation

Designation Number	8906
Requiring Authority	Vector Ltd
Location	105 Hillsborough Road, Hillsborough
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. The substation equipment is to be fully enclosed within a building.
2. The maximum height of the substation building will be 8.5m.
3. The substation building will have a minimum set-back from the Hillsborough Road boundary of 2.5m.
4. The substation building will have a minimum set-back from the northern residential boundary of 6m.
- 5A Except as provided for in 5A(c) below, noise from this substation shall not exceed the following noise limits:
  - a. 55 dB LAeq between Monday to Saturday 7am to 10pm and Sundays 9am to 6pm and
  - b. 45 dB LAeq/75 dB LAmax for all other times.
  - c. Noise from this substation can exceed the limits in (a) and (b) if the zone or any applicable interface rule has a higher noise limit that would otherwise apply to that boundary of the substation site, provided that the higher noise limit at that boundary is not exceeded.
- 5B Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise", and shall be measured within the boundary of a site or, for the Rural zone, within the notional boundary of a site.
6. The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.

### Attachments

No attachments.

## 8907 Nicholas Street Substation

Designation Number	8907
Requiring Authority	Vector Ltd
Location	10 Nicholas Street, Auckland Central
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	This designation will lapse on 31 August 2027 unless given effect to.

### Purpose

Electricity works (substation).

### Conditions

1. The substation equipment is to be fully enclosed within a building.
- 2A Except as provided for in 2A(c) below, noise from this substation shall not exceed the following noise limits:
  - a. 55 dB LAeq between Monday to Saturday 7am to 10pm and Sundays 9am to 6pm and
  - b. 45 dB LAeq/75 dB LAmax for all other times.
  - c. Noise from this substation can exceed the limits in (a) and (b) if the zone or any applicable interface rule has a higher noise limit that would otherwise apply to that boundary of the substation site, provided that the higher noise limit at that boundary is not exceeded.
- 2B Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise", and shall be measured within the boundary of a site or, for the Rural zone, within the notional boundary of a site.
3. The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.
4. Appropriate sediment and erosion control measures shall be employed for any earthworks on the site.

### Attachments

No attachments.

## 8908 Waitakere Substation

Designation Number	8908
Requiring Authority	Vector Ltd
Location	3 Bethells Road, Waitakere Village
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	This designation will lapse on 31 August 2027 unless given effect to.

### Purpose

Electricity works (substation).

### Conditions

1. The substation equipment is to be fully enclosed within a building.
2. The substation building will have a minimum set-back from the front boundary of 6m.
3. The maximum height of the substation building will be 8.5m.
- 4A Except as provided for in 2A(c) below, noise from this substation shall not exceed the following noise limits:
  - a. 55 dB LAeq between Monday to Saturday 7am to 10pm and Sundays 9am to 6pm and
  - b. 45 dB LAeq/75 dB LAm<sub>ax</sub> for all other times.
  - c. Noise from this substation can exceed the limits in (a) and (b) if the zone or any applicable interface rule has a higher noise limit that would otherwise apply to that boundary of the substation site, provided that the higher noise limit at that boundary is not exceeded.
- 4B Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise", and shall be measured within the boundary of a site or, for the Rural zone, within the notional boundary of a site.
5. At no time between the hours of 2200 and 0700 shall any outdoor lighting be used in a manner that the use of such lighting causes an added luminance in excess of 20 lux measured horizontally or vertically at any point along the boundary of any adjoining residential zoned site.
6. The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.
7. A landscaping plan shall be submitted with the first Outline Plan and will be implemented in the first planting season after the construction of the substation.
8. Appropriate sediment and erosion control measures shall be employed for any earthworks on the site.



## Attachments

No attachments.

## 8909 Warkworth South Substation

Designation Number	8909
Requiring Authority	Vector Ltd
Location	5 Glenmore Drive, Warkworth
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	This designation will lapse on 31 August 2027 unless given effect to.

### Purpose

Electricity works (substation).

### Conditions

1. The substation equipment is to be fully enclosed within a building.
2. The substation building will have a minimum set-back from the rear boundary of 6m.
3. The maximum height of the substation building will be 8.5m.
- 4A Except as provided for in 2A(c) below, noise from this substation shall not exceed the following noise limits:
  - a. 55 dB LAeq between Monday to Saturday 7am to 10pm and Sundays 9am to 6pm and
  - b. 45 dB LAeq/75 dB LAm<sub>ax</sub> for all other times.
  - c. Noise from this substation can exceed the limits in (a) and (b) if the zone or any applicable interface rule has a higher noise limit that would otherwise apply to that boundary of the substation site, provided that the higher noise limit at that boundary is not exceeded.
- 4B Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise", and shall be measured within the boundary of a site or, for the Rural zone, within the notional boundary of a site.
5. At no time between the hours of 2200 and 0700 shall any outdoor lighting be used in a manner that the use of such lighting causes an added luminance in excess of 20 lux measured horizontally or vertically at any point along the boundary of any adjoining residential zoned site.
6. The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.
7. A landscaping plan shall be submitted with the first Outline Plan and will be implemented in the first planting season after the construction of the substation.
8. Appropriate sediment and erosion control measures shall be employed for any earthworks on the site.

## Attachments

No attachments.

## 8910 Westgate Substation

Designation Number	8910
Requiring Authority	Vector Ltd
Location	1 Westgate Drive, Westgate
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. The substation equipment is to be fully enclosed within a building.
2. The maximum height of the substation building will be 8.5m.
- 3A Except as provided for in 2A(c) below, noise from this substation shall not exceed the following noise limits:
  - a. 55 dB LAeq between Monday to Saturday 7am to 10pm and Sundays 9am to 6pm and
  - b. 45 dB LAeq/75 dB LAmax for all other times.
  - c. Noise from this substation can exceed the limits in (a) and (b) if the zone or any applicable interface rule has a higher noise limit that would otherwise apply to that boundary of the substation site, provided that the higher noise limit at that boundary is not exceeded.
- 3B Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise", and shall be measured within the boundary of a site or, for the Rural zone, within the notional boundary of a site.
4. The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.
5. A landscaping plan shall be submitted with the first Outline Plan and will be implemented in the first planting season after the construction of the substation.
6. Appropriate sediment and erosion control measures shall be employed for any earthworks on the site.

### Attachments

No attachments.

## 8911 Clevedon Substation

Designation Number	8911
Requiring Authority	Vector Ltd
Location	1 Papakura-Clevedon Road, Papakura
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. The substation equipment is to be fully enclosed within a building.
2. The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.

### Attachments

No attachments.

## 8912 Hobsonville Point Substation

Designation Number	8912
Requiring Authority	Vector Ltd
Location	439 Hobsonville Road, Hobsonville Point (also known as 98 Buckley Avenue)
Rollover Designation	No
Lapse Date	Given effect to (i.e.no lapse date)

## Purpose

Electricity works (substation)

## Conditions

### General

1. The designation shall lapse 10 years from the date of inclusion in the Auckland Unitary Plan in accordance with section 184(1)(c) of the Resource Management Act 1991 (RMA).
2. An outline plan shall not be required, and is waived, unless there are more than minor changes to the referenced plans in which case Vector Limited (Vector) shall clearly identify these changes and the Council may then require an outline plan of works to be submitted for approval in terms of section 176A of the RMA.
3. Any intended 'upgrading' of the substation (as referred to on page 11 of the lodged notice of requirement, Form 18 – 'notice') shall be advised to the Council's relevant officer enabling a timely determination as to the significance of the changes. A determination shall be made by the Council as to whether an 'alteration' in terms of section 181 RMA, or an outline plan, is necessitated. The advice to Council shall demonstrate that continued compliance with all operational conditions can continue to be achieved, or if not, the extent to which this would not occur.

### Construction and maintenance of substation

4. The substation shall proceed in general accordance with the Vector notice of requirement lodged 6 September 2017 subject to those updated drawings and particular matters referred to below, and subject also to all other conditions of the designation:
  - a. The layout of the site and landscaping and planting shall be as detailed in the updated drawings received 23 November 2017, being Vector drawing numbers 4260-8031 (rev 3) and 4260-8034 (rev 2), which demonstrate:
    - i. A western side yard of at least three metres which is to be landscape planted to achieve a maturity height of approximately five metres along the northern half of the western site boundary (as generally depicted in drawing number 4260-8060, received 23 November 2017);
    - ii. Landscaping and planting outside the front fenceline;
    - iii. A perimeter palisade fence (apart from the western boundary) and a gated entrance;
    - iv. A new length of timber fence on the western boundary of the site, which is to match that which exists;

- v. A new length of footpath across the frontage of the site; and
  - vi. A vehicle crossing to Buckley Avenue (which is not authorized by these conditions and which is subject to separate processes and approval by Auckland Transport).
  - b. The exterior finish of the substation buildings and structures shall be in general accordance with Vector drawing V4-SK03.
  - c. The landscaping and planting shall be implemented and completed in the first planting season after the construction of the substation.
  - d. All electricity lines and all other service lines into the site shall be underground.
  - e. All site works and construction work will be carried out in compliance with all relevant legislative requirements or Council standards, and only after any necessary Council (or other) approvals have been obtained.
5. A Site Management Plan – Ground Contamination in line with the draft in the notice shall be submitted to Council’s relevant officer for approval and implemented at the time of site works. The ‘principal contractor’ shall be advised to Council at least two weeks prior to the start of any site works.
  6. A Sediment and Erosion Control Plan in line with drawing RZ029900-ECC-DRG-010 shall be submitted to Council’s relevant officer for approval and implemented during the site works (and bulk earthworks) operation to Council’s satisfaction.
  7. A Construction Noise Management Plan (CNMP) shall be prepared by an appropriately qualified person, and approved by Council’s relevant officer prior to construction commencing, and shall be implemented and complied with throughout the construction period to Council’s satisfaction. The plan shall demonstrate any departure from the noise levels of E27.6.27 (Construction noise levels in all zones except Business – City Centre Zone and the Business – Metropolitan Centre Zone) of the Auckland Unitary Plan and give reasons for any departure.
  8. The CNMP shall be prepared in accordance with the Noise Management Plan requirements of Annex E2 of NZS 6803:1999 Acoustics - Construction Noise and shall describe the measures adopted to, as far as practicable, meet the relevant noise limits for construction, subject to E27.6.27 of the Auckland Unitary Plan.
  9. A Construction Traffic Management Plan (CTMP) shall be submitted for the approval of Council’s relevant officer, in conjunction with Auckland Transport, and the approved CTMP shall be adhered to throughout the duration of construction to the satisfaction of Auckland Transport.

**Ongoing operation of substation**

10. Operational noise from the substation shall not exceed the following noise limits when measured within the boundary of a residential zone site:

Monday to Saturday 7:00 am to 10:00 pm and Sundays 9am to 6pm	At all other times
55 dB LAeq	45dB LAeq, 75dB LAFmax

11. Noise levels shall be measured in accordance with the provisions of New Zealand Standard NZS 6801:2008 "Acoustics - Measurement of environmental sound" and assessed in

accordance with the provisions of New Zealand Standard NZS 6802:2008 "Acoustics - Environmental noise".

12. Vector shall within 6 months of the substation commencing operation provide an acoustic report from a suitably qualified and experienced acoustics expert demonstrating compliance with the above noise level limits, as evidenced by noise recordings at various compliance points. The report shall be submitted to Council's relevant officer. In the event of any non-compliance, the report shall demonstrate how compliance can be achieved and the timeframes for completion.
13. The operation of the substation shall at all times comply with the International Commission on Non-ionising Radiation Protection Guidelines (ICNIRP) for limiting exposure to time varying electric and magnetic fields (1Hz – 100kHz) (Health Physics, 2010, 99(6); 818-836) and recommendations from the World Health Organisation monograph Environmental Health Criteria (No 238, June 2007).
14. Vector shall within 6 months of the substation commencing operation engage an electrical engineer to confirm compliance with the ICNIRP guidelines as evidenced by actual measurement of electric and magnetic fields at relevant locations. The engineer's report shall be submitted to Council's relevant officer. In the event of any non-compliance, the report shall demonstrate how compliance can be achieved and the timeframes for completion.
15. All landscaping and planting (Vector drawing 4260-8034 rev 2) shall be maintained in good condition for the term of the designation, and any plantings that clearly fail to thrive in the first three years after establishment or which fail to mature thereafter shall be replaced no later the next planting season.
16. All general and security lighting on the site visible from off the site shall be installed and maintained thereafter in good working order at all times to ensure that any off-site light spill effects are kept to within acceptable limits for a residential area.

## Attachments

No attachments.



## 8913 Wiri West Substation

Designation Number	8913
Requiring Authority	Vector Ltd
Location	2 Jerry Green Street, Wiri
Lapse Date	22 February 2029

## Purpose

Electricity Works (substation)

## Conditions

1. The substation equipment is to be enclosed within a building except for the battery energy storage system.
2. The maximum height of the substation building will comply with the height standard for the underlying zone.
3. Noise from this substation shall not exceed 70dB LAeg within the boundary of any other site at all times.
4. Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise" and shall be measured within the boundary of a site.
5. At no time between the hours of 2200 and 0700 shall any outdoor lighting be used in a manner that the use of such lighting causes an added luminance in excess of 20 lux measured horizontally or vertically at any point along the boundary of any adjoining residential zoned site.
6. The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.
7. A landscaping plan shall be submitted with the first Outline Plan and will be implemented in the first planting season after the construction of the substation.
8. Appropriate sediment and erosion control measures shall be employed for any earthworks on the site.
9. A Construction Traffic Management Plan (CTMP) shall be submitted for the approval of Council's relevant officer, in conjunction with Auckland Transport, and the approved CTMP shall be adhered to throughout the duration of construction to the satisfaction of Auckland Council.
10. Access to the site will be from Jerry Green Street only.

## Attachments

No attachments.

## 8914 Millwater Substation

Designation Number	8914
Requiring Authority	Vector Limited
Location	16 Highgate Parkway, Silverdale
Lapse Date	10 years

## Purpose

Electricity Works (substation)

## Conditions

1. The substation equipment is to be enclosed within a building except for the battery energy storage system.
2. The maximum height of the substation building will comply with the height standard for the underlying zone.
3. Noise from this substation shall not exceed 65 dB LAeq within the boundary of any other site at all times.
- 3A. Noise levels must be measured in accordance with NZS6801:2008 "Acoustics - Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise" and shall be measured within the boundary of a site.
4. At no time between the hours of 2200 and 0700 shall any outdoor lighting be used in a manner that the use of such lighting causes an added luminance in excess of 20 lux measured horizontally or vertically at any point along the boundary of any adjoining residential zoned site.
5. The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.
6. A landscaping plan shall be submitted with the first Outline Plan and will be implemented in the first planting season after the construction of the substation.
7. Appropriate sediment and erosion control measures shall be employed for any earthworks on the site.
8. A Construction Traffic Management Plan (CTMP) shall be submitted for the approval of Council's relevant officer, in conjunction with Auckland Transport, and the approved CTMP shall be adhered to throughout the duration of construction to the satisfaction of Auckland Council.

## Attachments

No attachments.

## 8915 Flat Bush Sub-Station

Designation Number	8915
Requiring Authority	Vector Limited
Location	5 Pencaitland Drive, Flat Bush [formerly 191R Ormiston Road]
Rollover Designation	Yes
Legacy Reference	Designation 316, Auckland Council District Plan (Manukau Section) 2002
Lapse Date	Given effect to (ie. no lapse date)

## Purpose

Electrical works (Sub-Station)

## Conditions

### General conditions

1. The scope and extent of the works within the designated area be in general accordance with the notice of requirement, dated 5 August 2013, for the designation of part of land for “Electrical Works (Substation)”, at 191R Ormiston Road, Flat Bush being Lot 1 of the subdivision of Lot 3 DP 370733.
2. The proposed works shall be undertaken in general accordance with the notice of requirement application and plans referenced as follows:

REFERENCE NO.	TITLE	DATE
4112 – 8001: Revision 3	Flatbush Proposed Site Plan	30-09-2013
4112 – 8002: Revision 3	Flatbush Services Plan	30-09-2013
4112 – 8003: Revision 2	Flatbush Earthworks, Erosion and Sediment Control Plan	22-07-2013
4112 – 8004: Revision 2	Flatbush Erosion and Sediment Control Plan	22-07-2013
4112 – 8020: Revision 1	Site and Location Plan	30-10-2013
4112 – 8110 and 8120: Revision 1	Basement and Ground Floor Plan - Switchroom	30-10-2013
4112 – 8152: Revision 2	Precast Pattern Set out - Switchroom	13-12-2013
4112 – 8310 and 8320: Revision 1	Basement and Ground Floor Plan - Transformer	18-10-2013
4112 – 8350: Revision 2	Transformer Room - Elevations	13-12-2013
4120 – 8150: Revision 2	Elevations - Switchroom	13-12-2013
SK03 to SK04	Flatbush Zone Substation	01-08-2013
4112-8810: Revision 2	Fence and Gate Details	13-12-2013
4112-8600: Revision 3	Landscaping Plan	14-2-2014

### Noise

3. The electrical works substation should comply with the following noise control, measured at or within the boundary of any adjacent site zoned business:

Average maximum level	At all other times	60dBA Leq
Maximum	2200 hours to 0700 hours	90dBA Lmax

4. Noise shall be measured in accordance with the requirements of NZS6801: 2008 'Acoustics – Measurement of Environmental Sound' and assessed in accordance with NZCS 6802:2008 'Acoustics – Environmental Noise'. Noise shall be measured with a sound level meter complying with the international standard Sound Level Meters, Type 1.

### **Electricity and Magnetic Fields**

5. The electrical works substation shall at all times not exceed the reference levels for public exposure to 50Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the designation boundary.

### **Light Spill**

6. All exterior lighting shall be designed, located and at all times directed, screened, adjusted and maintained so direct illumination from the lighting installed shall not exceed:
  - (a) 10 lux (lumens per square metre) at or within the boundary of all affected residential sites between 2200 hours and 0700 hours
  - (b) 20 lux at or within the boundary of all affected residential sites at all other times when exterior lighting is required.

### **Fencing and Landscaping**

7. The site shall be fully fenced and gated. Fencing shall exclude any barbed wire (including rolled barbed wire along the top of the fencing).
8. The fencing and landscaping shall be undertaken in general accordance with the drawings 4112-8810: Revision 2 (fence and gate details) and 4112-8600: Revision 3 (landscape plan) and shall be completed in the first planting season after the construction of the substation.

### **Hazardous Substances**

9. A site management plan shall be prepared and implemented to address the following:
  - (i) Monitoring and maintenance of the transformer and the containment systems
  - (ii) Site housekeeping
  - (iii) Emergency and spill contingency procedures.

### **Earthworks**

10. The sediment and erosion control plan (Drawing 4112-8003 Rev. 2) shall be implemented during the bulk earthworks.

### **Monitoring**

11. Within 6 months of the substation commencing operation, a noise monitoring report and an electrical and magnetic fields report with measurement results shall be provided to council's Southern Resource Consents and Compliance Team to confirm the compliance with noise limits, and electrical magnetic field limits set above when the electrical works substation is at peak loads.

### **Constructions and Traffic Management**

12. A construction and traffic management plan shall be prepared and submitted to Auckland Transport prior to commencement of any construction work.

### **Outline Plan**

13. The requirement for an Outline Plan has been waived but if the design and layout of the substation does not reflect the design and layout submitted with the Notice of Requirement in

accordance with Condition 2, or in the case of any future works, an Outline Plan shall be submitted in accordance with section 176A of the Resource Management Act 1991 to the Auckland Council unless the works are permitted under the provisions of the District or Unitary Plan at the time.

## Attachments

No attachments

## 8916 Sylvia Park Substation

Designation Number	8916
Requiring Authority	Vector Ltd
Location	6 Stud Way, Mount Wellington
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity works (substation).

### Conditions

1. The substation equipment is to be fully enclosed within a building.
- 2A Except as provided for in 2A(c) below, noise from this substation shall not exceed the following noise limits:
  - a. 55 dB  $L_{Aeq}$  between Monday to Saturday 7am to 10pm and Sundays 9am to 6pm and
  - b. 45 dB  $L_{Aeq}$ /75 dB  $L_{Amax}$  for all other times.
  - c. Noise from this substation can exceed the limits in (a) and (b) if the zone or any applicable interface rule has a higher noise limit that would otherwise apply to that boundary of the substation site, provided that the higher noise limit at that boundary is not exceeded.
- 2B Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise", and shall be measured within the boundary of a site or, for the Rural zone, within the notional boundary of a site.
3. The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.

### Attachments

No attachments.

## 8917 Fred Taylor Drive, Whenuapai

Designation Number	8917
Requiring Authority	Vector Ltd
Location	61 Fred Taylor Drive, Whenuapai
Lapse Date	10 years from date of inclusion in the Auckland Unitary Plan

## Purpose

Electricity works (substation).

## Conditions

### General

1. The scope and extent of the works within the designated area are to be in general accordance with the Notice of Requirement, dated March 2021, for the designation of part of the land for “Electrical Works (Substation)”. For reference, the design and layout plans submitted with the Notice of Requirement are:

Plan	Drawing Number	Dated
Proposed Site Plan	4265-8020-2 Rev P3	18/2/2021
Switch room Building Elevations	4265-8150 Rev P3	18/2/2021
Transformer Room Building Elevations	4265-8350 Rev P3	18/2/2021
Typical Gate Detail	4000-8713 Rev 4	1/9/2014
Preliminary Outline and Dimensional Drawing	001/TAP20076A1Ro	06/03/2020
Proposed Site Layout Plan	4265-8013	23/04/2021
Proposed Grading and Drainage Layout Sheet 1 of 2	AKL02-C-D-04-00	16/12/2020
Proposed Grading and Drainage Layout Sheet 2 of 2	PKC05 – Building Consent	16/12/2020
Proposed Site Plan	4265-8024-2	27/04/2021
Proposed Drainage Layout Plan	4265-8016	23/04/2021
TX Room – Basement Floor Plan	4265-8310	27/04/2021
TX Room – Building Sections	4265-8340	27/04/2021

### Outline Plan

2. The works shall be undertaken in general accordance with the Notice of Requirement titled ‘Notice of Requirement and OPW Waiver for Substation at 61 Fred Taylor Drive, Whenuapai’ and plans received by Auckland Council on 1 April 2021. An outline plan shall not be required and is waived unless there are more than minor changes to the referenced plans in which case Vector Limited shall clearly identify these changes and Auckland Council may then require an outline plan of works to be submitted for approval in terms of section 176A of the RMA.

### Construction Environmental Management Plan

3. The Requiring Authority must prepare a detailed CEMP for the project which is to be submitted to Auckland Council for certification. The purpose of the CEMP is to avoid, remedy or mitigate significant adverse effects associated with the construction of the substation.

### Site Access

- The site must be safe and secure from unauthorised public access at all times during construction and operation.

**Earthworks associated with any site development**

- Appropriate sediment and erosion control measures shall be employed for any earthworks on the site.
- Prior to commencing any earthworks, the requiring authority must install all necessary erosion and sediment control as shown in the Auckland Council’s GD05 and be responsible for preventing, controlling and stopping the loss of soil and silt and any damage caused by the earthworks on adjacent properties. All necessary erosion and sediment measures once installed are to be maintained to ensure continual operation until the development has been completed and fully stabilised.

**Hazardous Substances Environmental Management Plan (HSEMP)**

- The Requiring Authority must prepare a detailed HSEMP for the substation which is to be submitted to Auckland Council. The purpose of the HSEMP is to outline the methodologies and processes that will be adopted to ensure the risk of storing and using hazardous substations will be appropriately managed.
- The Requiring Authority must ensure that all transformers are banded. Each band shall be of sufficient capacity to contain the total volume of oil contained within each transformer.

**Construction Traffic Management Plan**

- The Requiring Authority must prepare a detailed Construction Traffic Management Plan (CTMP) for the project by a suitably qualified person to be submitted as part of the Construction Environmental Management Plan (CEMP) to Auckland Council for certification, in conjunction with Auckland Transport.

**Building**

- The maximum height of the substation buildings will not exceed 9m.

**Noise**

- The noise (rating) level and maximum noise level arising from the substation must not exceed 65 dB LAeq when measured or assessed within the boundary of any adjacent site zoned Business – Light Industry and the following noise limits when measured or assessed within the boundary of any site zoned residential: -

<i>Time</i>	<i>Noise level</i>
<i>Monday to Saturday 7 am – 10pm</i>	<i>55 dB LAeq</i>
<i>Sunday 9am – 6pm</i>	
<i>All other times</i>	<i>45 dB LAeq</i> <i>60 dB Leq at 63 Hz</i>



	55 dB Leq at 125 Hz
	75 B LAFmax

- Noise levels must be measured in accordance with NZS6801:2008 "Acoustics – Measurement of environmental sound" and assessed in accordance with NZS6802:2008 "Acoustics – Environmental noise" and shall be measured within the boundary of a site.

### Landscaping and visual

- The substation building is required to have exterior cladding and colours that are recessive, such as grey or earthy tones so that it modulates its form and surfaces.

### Electric Magnetic Fields (EMF)

- The substation shall at all times not exceed the reference levels for public exposure to 50 Hz electric and magnetic fields set out in the International Commission on Non-Ionising Radiation Protection 2010 (ICNIRP) at the site boundary.
- The Requiring Authority is required to undertake a one-off EMF monitoring study following the commissioning of the proposed substation to confirm compliance with the ICNIRP Guideline limits

### Lighting

- At no time between the hours of 2200 and 0700 shall any outdoor lighting be used in a manner that the use of such lighting causes an added luminance in excess of 20 lux measured horizontally or vertically at any point along the boundary of any adjoining residential zoned site.

### Advice notes

- Any additional matters requiring regional consents or approvals, (e.g. National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) must be obtained prior to works commencing.
- The requiring authority must ensure that stormwater runoff from impervious surfaces is provided with stormwater quality treatment in accordance with the Totara Creek Network Discharge Consent.

## Attachments

No attachments.

## 8918 Massey North Underground Electricity Transmission Cables

Designation Number	8918
Requiring Authority	Vector Ltd
Location	11 Westgate Drive, Massey to 20 Northside Drive, Whenuapai
Rollover Designation	Yes
Legacy Reference	Designation TP4, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

### Purpose

Electricity transmission - the Massey North Underground Cable Project, comprising a 110kV underground transmission line for the conveyance of electricity and ancillary structures associated with the works to be located between existing Towers 6 and 12 of the Albany – Henderson A 110kV overhead transmission line.

### Conditions

1. Appropriate sedimentation and erosion control measures shall be employed for any earthworks on the designated site.
2. "Works" has the same meaning as in the Notice of Requirement by Transpower New Zealand Limited for a designation for "Underground Transmission Line" dated January 2011 ("Notice of Requirement"). Works shall be conducted and maintained generally in accordance with the information provided by the requiring authority as shown on all information and plans titled:
  - a. Form 18 titled 'Notice of Requirement by Transpower New Zealand Limited for designation for "Underground Transmission Line', signed by Brian Warburton – Environmental Strategy and Approvals Group, Transpower NZ Ltd
  - b. Plan Prepared by Beca, titled 'Massey North Underground Cable Project: Land Requirement Plan' Dwg no. GIS-4213785-2-1, GIS-4213785-2-2, GIS-4213785-2-3 all Rev 1.1, all dated 27/05/2011
  - c. Documentation from Beca titled 'Notice of Requirement for a Designation: Massey North Underground Cable Project' dated April 2011
  - d. Letter from Andrew Renton of Transpower titled 'Transpower Approval of Works within Massey North Underground Cable Designation' dated 23 September 2011.
  - e. Letter from Alan Wallace of Auckland Transport titled 'Transpower Approval of Works within Massey North Underground Cable Designation v2' dated 28 September 2011.

### Advice Note

1. Where section 176 approvals under the Resource Management Act 1991 are required by utility operators (other than the Requiring Authority) for their works within the designation, the Requiring Authority will provide a timely response, in order to facilitate co-ordination of section 176 approvals sought by the utility operator and the road opening notice process.

### Attachments

## Attachment 1: Schedule of Legal Descriptions

Parcel ID / Appellation
5264749
Lot 1 DP 200724
Lot 16 DP 425328
Lot 17 DP 425328
Lot 18 DP 425328
Lot 2 DP 449976
Lot 20 DP 425328
Lot 27 DP 425328
Lot 28 DP 40 5328
Lot 36 DP 40 5328
Lot 37 DP 425328
Lot 7 DP 425328
6782773
5263204
5263175
5260308
Sec 4 SO 446425
Sec 41 SO 443664
Sec 57 SO 430649
Sec 6 SO 446425
Sec 63 SO 430649
Sec 64 SO 430649
Sec 69 SO 430649
Sec 7 SO 446425
Sec 8 SO 430649