

The Proposed Auckland Unitary Plan (notified 30 September 2013)

Vector Ltd

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

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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
8841	Electricity transmission for the purposes of conveying electricity to the Auckland CBD ...	19 Gavin Street, Ellerslie to 13-21 Hobson Street, Central Auckland
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	Electricity works (substation)	375 Glenvar Road, Torbay
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	Electricity works (substation)	515 South Titirangi Road, Titirangi
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

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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

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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
8904	Electrical works (substation)	115 Rosedale Road (Lot 2 DP 459157), Rosedale

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)

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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.

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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 Flat Bush 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	10 years from being operative in the Unitary Plan unless given effect to prior

Purpose

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8806 South Howick Substation

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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)

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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.

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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

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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

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Lapse Date	Given effect to (i.e. no lapse date)
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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).

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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

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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

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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

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Lapse Date	Given effect to (i.e. no lapse date)
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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).

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Conditions

No conditions.

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

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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

No conditions.

Attachments

No attachments.

8831 Penrose Portal

Designation Number	8831
Requiring Authority	Vector Ltd

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Location	19 Gavin Street, Ellerslie
Rollover Designation	Yes
Legacy Reference	Designation F12-42, 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.

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.

1.4 During the construction of the tunnel and associated works this designation shall include that area of the Transpower site at Penrose ("All that parcel of land containing 7.7452 hectares more or less being Lot 1 Deposited Plan 141417 situated in Block 1 Otahuhu Survey District" being all the land comprised in Certificate of Title 83D/707 North Auckland Registry) ("Transpower Site") which is shown as shaded on the attached plan marked "A" together with the land for the tunnel alignment.

1.5 On the completion of construction Vector shall advise in writing the Council's Manager - Regional and Local Planning and Transpower that construction is complete. On the date on which this advice is given the extent of this designation as it relates to the Transpower Site shall be reduced to the area which is shown as shaded on the attached plan marked "B", together with the land for the tunnel alignment.

1.6 The design of the tunnel and associated works shall be sufficient to ensure that the tunnel structure lasts for a minimum life of 200 years.

1.7 The tunnel shall be constructed in such a way as to prevent damage, loss of amenity or injury to people, buildings, and other property due to erosion, subsidence, or loss of support of the land adjacent to the tunnel.

1.8 When the tunnel, or any length of it, is no longer required, the length no longer required shall be backfilled to prevent subsidence.

1.9 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.

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1.10 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.

1.11 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.

1.12 Dust arising from construction activities shall be suppressed by the use of water sprays and other appropriate methods so as to prevent nuisance to adjacent occupiers and landowners.

1.13 Prior to the commencement of construction at each of the following tunnel sites, management plans shall be produced to the satisfaction of the Council's Manager - Resource Consents regulating construction activities at the Penrose Portal, Ellerslie Portal, Newmarket Portal, Liverpool substation, and Hobson substation. The management plans shall address the following issues:

- a. Traffic movements;
- b. Dust, including the effect of dust on the operation of electrical equipment at the Penrose site;
- c. Stock piling and storage of excavated material;
- d. Storage of construction equipment;
- e. Hours of operation by trucks;
- f. The effect of any vibration on sensitive plant (whether from blasting or otherwise) such as printing presses, and electrical equipment at the Transpower site;
- g. Wheel wash facilities;
- h. Screening of construction activities from residential properties and public places;
- i. Parking of workers' vehicles;
- j. Security fencing;
- k. Lighting in relation to adjacent residential properties.

1.14 Without limiting the effect of Condition 1.13 above the management plan relating to the Penrose Portal shall comply with Conditions 6.19 and 6.20.

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, Trans Power 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. Noise (Excluding Blasting)

2.1 During the period of tunnel construction the daytime (7.30am to 8.00pm) L10 noise levels measured at 1m from the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A" and which is not zoned business activity shall not exceed 70 dBA.

2.1A For the Penrose and Hobson sites only.

During the period of tunnel construction the day time (7.00am to 8.00pm) L10 noise levels measured at 1m for the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A" and which is not zoned business activity shall not exceed 70 dBA.

2.2 During the period of tunnel construction the night time (8.00pm to 7.30am) noise levels as measured at 1m from the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A" and which is not zoned business activity shall not

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exceed 45 dBA L10 and a maximum level (Lmax) of 75 dBA.

2.2A For the Penrose and Hobson sites only

During the period of tunnel construction the night time noise levels as measured at 1m from the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A" and which is not zoned business activity shall not exceed the following noise levels and a maximum level (Lmax) of 75 dBA:

Penrose site:

Monday to Saturday	8.00 pm to 11.00 pm	60 dBA L10
Monday to Saturday	11.00 pm to 7.00 am	50 dBA L10
Sunday night to Monday morning	8.00 pm to 7.00 am	45 dBA L10

Hobson Site:

Monday to Saturday	8.00 pm to 9.00 pm	60 dBA L10
Monday to Saturday	9.00 pm to 11.00 pm	55 dBA L10
Monday to Saturday	11.00 pm to 5.00 am	55 dBA L10
Monday to Saturday	5.00 am to 7.00 am	55 dBA L10
Sunday night to Monday morning	8.00 pm to 7.00 am	55 dBA L10

Other sites:

Unless otherwise stated all other sites shall comply with the noise levels contained in Conditions 2.1 and 2.2.

2.2B That, on confirmation by a Council Noise Control Officer that noise complaints received are correctly attributed to activities associated with the Tunnel project, Vector will undertake whatever steps are necessary to ensure that night time noise levels at the Hobson site comply with Condition 2.2A, and will undertake whatever monitoring the Council may reasonably require. Records shall be made available to the Council on request.

2.3 During the period of tunnel construction, subject to Conditions 2.1 and 2.2 above, the L10 noise level generated by the project as measured at any time at 1m from the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A", and which has a business activity zoning shall not exceed 80 dBA.

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.

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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.

3. Blasting

3.1 For the purpose of Conditions 3.1A - 3.8 blasting means the use of explosives to loosen or dislodge rock material.

3.1 A Prior to blasting within the tunnel, Vector shall give at least 12 hours written notice of the location and timing of the blast(s) to the following parties:

- a. Occupants of buildings within 100m of the blast site; and
- b. The Manager, Resource Consents and Compliance.

3.2 Notwithstanding Condition 3.1 hereof trial blasting shall be undertaken in accordance with Conditions 6.1 - 6.4 inclusive.

3.3 Blasting activities shall be so controlled as to ensure that any ground vibration as the result of any blasting will not adversely affect the structural stability of any building or structure including electrical equipment (that is not connected with the site covered by this designation) or cause a reduction in its utility value. Peak particle velocities measured on any foundation or uppermost full story of any building not related to the site, which do not exceed the limits set out in Table 1 of German Standard DIN 4150 Part 3:1986 "Structural Vibration in Buildings - Effect on Structures", will be deemed to meet these requirements. Peak particle velocity means the maximum particle velocity in any of the three mutually perpendicular directions. The units are millimetres per second (mm/s).

3.4 The noise created by the use of explosives for blasting shall either not exceed a peak overall sound pressure level of 128 dB (ie a peak over pressure of 0.05 kPa) or alternatively the noise shall not exceed a peak sound level of 122 dBC. The measurement shall be made in either case at 1m from the most exposed window or door of any occupied building (that is not connected with the Transpower site).

3.5 The maximum number of blasts shall be limited to three times per day per location. The locations are on land included in this designation and comprise the following places where the tunnel exits to ground level: Hobson substation, Liverpool substation, Newmarket portal, Ellerslie egress shaft and Penrose portal.

3.6 Except with the permission of Manager - Resource Consents and Compliance, and subject to Condition 3.5, blasting for the Penrose Portal shall only occur between the hours of 7.30am and 8.00pm Monday to Sunday and no blasting shall occur on public holidays.

3.7 Except with the permission of Manager - Resource Consents and Compliance, blasting at all other tunnel sites shall only occur between the hours of 7.30am and 8.00pm Monday to Saturday and no blasting shall occur on Sundays and public holidays.

3.8 Vector will take whatever steps are necessary to ensure that blasting complies with Conditions 3.3 and 3.4, and will undertake whatever monitoring the Council may reasonably require. Records shall be made available to Council on request. The monitoring sites and methods shall be agreed with Manager - Resource Consents and Compliance prior to the commencement of work.

3.9 The requirement for monitoring and recording may be relaxed at the discretion of Manager - Resource Consents and Compliance after Vector has provided written evidence of consultation by Vector with Transpower in respect of the Trans Power Site if it is considered that the noise and vibration level from blasting at any one location has decreased sufficiently. Any blast undertaken on Sundays and public holidays, or between the

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hours of 8.00pm and 7.30am, shall be monitored.

4. Vibration

4.1 Activities other than blasting shall not generate vibrations which may cause discomfort or adversely affect the health and well being of the occupants of premises outside the designation as shown on the attached plan marked "A" during construction and the attached plan marked "B" after construction is completed. Vibrations which do not exceed the limits referred to below as set out in the provisions of International Standard ISO 2631-2:1989 "Evaluation of human exposure to whole body vibration - Part 2 Continuous and shock-induced vibration in buildings (1 to 80 Hz)" will be deemed to meet this requirement. These particular limits are that the vibration levels (acceleration measured in metres per second) relative to the frequency shall not exceed the base curves of Figure 2A (z axis), 3a (x, y and z axes) and 4a (combined x, y and z axes) of ISO 2631-2:1989.

4.2 The assessment of continuous, intermittent and transient (impulsive) vibrations shall be carried out by a suitably qualified and experienced person in accordance with Annex A and Table 2 of ISO 2631-2:1989.

4.3 The instruments used to measure vibrations and the methods of measurement shall comply with a recognised standard such as Australian Standard AS 2973:1987 Vibration and Shock - Human response.

4.4 Subject to Conditions 4.5 and 6.2, Manager: City Planning may approve vibration levels above the standards specified in Condition 4.1 where he/she is satisfied that they are necessary for construction or demolition work of a limited duration.

4.5 All tunnel construction activities shall be so controlled as to ensure that any ground vibration created will not adversely affect the structural stability of any building or structure (that is not connected with the land covered by this designation) or cause a reduction in its utility value. Peak particle velocities measured on any foundation or uppermost full storey of any building not related to the site, which do not exceed the limits set out in Table 1 of German Standard DIN 4150 Part 3: 1986 "Structural Vibration in Buildings - Effects on Structures", will be deemed to meet these requirements. Such monitoring as is necessary to ensure compliance with this condition shall be undertaken. Records shall be made available to the Council on request.

5. Traffic

5.1 On site manoeuvring for trucks shall be provided so that no reverse manoeuvring onto the street will occur at any of the tunnel sites.

5.2 Wheel-wash facilities shall be provided for all trucks exiting the tunnel sites so that no excavation material is tracked onto the streets.

5.3 Vector will undertake measures to keep the roads in the vicinity of the tunnel construction sites free from any debris resulting from the construction work.

5.4 Programming of truck movements shall be arranged so that trucks do not wait or queue on the street other than for normal traffic movements when their way is obstructed by opposing traffic. The movements of trucks and other construction traffic shall be regulated in accordance with the management plans referred to in Condition 1.13.

5.5 Hobson Portal

a. There shall be no right turn movements into Fanshawe Street for trucks leaving the site at any time. There shall be no right turn movements from vehicles entering the site from Fanshawe Street between the hours of 4.30pm to 6.00pm, Monday to Friday.

b. The right turn pocket on Fanshawe St shall be widened and lengthened by Vector in accordance with the attached sketch plan 2289/2 by Traffic Design Group (see B08-03(d)) in order to facilitate the right turn

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movement of trucks during permitted hours. The costs of these roadworks are to be borne by Vector.

c. A sign to warn Fanshawe St traffic of slow trucks merging shall be installed to the satisfaction of the Manager - Resource Consents and Compliance.

5.6 Newmarket Portal

a. The primary truck routes to and from the site shall be as indicated in the attached plan B08-03(c) being Figure 6, page 16 of the report entitled Assessment of Effects on the Environment: Traffic, January 1996, Traffic Design Group, or such alternative truck routes as agreed by Council as part of the management plan required under Condition 1.13.

5.7 Penrose Portal

a. Right turn movements of trucks at the Gavin St/Penrose Rd intersection shall not be permitted between 7.00am to 9.00am and 4.00pm to 6.00pm, Monday to Friday.

b. There shall be no use by heavy construction vehicles of the northern section of Gavin St which serves residential zoned properties, or of any of Eaglehurst Road.

5.8 Liverpool Street Substation

a. No trucks shall be permitted to use City Rd or Liverpool St between Karangahape Rd and Turner St.

6. Penrose Site

Wilson and Horton Limited

6.1 Notwithstanding the requirements of Conditions 3.3, the following conditions shall apply in respect of the Herald printing press site owned by Wilson and Horton:

a. That vibration at the boundary of the Herald site during the construction of the Penrose Portal shall not exceed 5mm per second or half of any vibration level that is found to interfere with the operation or printing quality of presses on the Herald site, whichever is the lesser;

b. Subject to the requirements of Condition 3.6 and the requirements as to trial blasting in Condition 6.4 hereof, the first blast following the completion of trial blasting at the Penrose Portal and as many subsequent blasts as possible shall occur between the hours of 3.30pm on Saturday and 10.30pm on Sunday;

c. That Vector shall prior to the commencement of the construction of the Penrose Portal install and monitor equipment where agreed with Wilson & Horton to gauge the level of vibration experienced at the Herald site as a result of blasting. If Vector and Wilson & Horton are unable to reach agreement, then monitoring shall occur at the direction of the Manager: City Planning. Records shall be made available to the Council on request; and

d. That if monitoring at any stage shows a level of vibration induced by the tunnel blasting which is interfering with an accepted standard of print register for those presses, then Vector shall use an alternative method of excavation which does not interfere with the printing process; or blast only between the hours of 3.30pm Saturday and 10.30pm Sunday (subject to the Condition 3.6 hereof).

Transpower New Zealand Limited

Transpower New Zealand Limited

6.2 Vector shall undertake the construction of the tunnel, portal and associated equipment (including plant room) at the Transpower site in such a manner that avoids as far as practicable a level of vibration induced by such activities which causes or is likely to cause a partial or total shut down of transmission of electricity through the substation.

6.3 Prior to the commencement of construction, Vector shall undertake trial blasting and trial truck movements for the purpose of determining levels of vibration which, if not exceeded, would ensure that the obligation arising under Condition 6.2 hereof is satisfied. Such trials shall be undertaken in the presence of a representative or representatives of Transpower New Zealand Limited. Records shall be made available to the Council on request.

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6.4 Such trial blasts as required by Condition 6.3, shall occur between the hours of 3:30 pm to 6:00 pm Saturday and 9:00 am to 6:00 pm Sunday over four consecutive weekends. Three days notice of such trial blasting shall be given to the Manager - Resource Consents and Compliance

6.5 Vector shall install equipment for the purpose of measuring and monitoring the level of vibration induced at Trans Power's Penrose substation site as a result of construction, the location of such equipment to be agreed with Transpower New Zealand Ltd. If Vector and Transpower are unable to reach agreement about the location, such monitoring shall be undertaken as required by the Manager - Resource Consents and Compliance, Auckland Council. Records shall be made available to Council on request.

6.6 In the event that the monitoring undertaken pursuant to Condition 6.4 hereof indicates that levels of vibration induced by construction activities have resulted in or are likely to result in a failure to comply with Condition 6.2 hereof, Vector shall adopt alternative methods to ensure that Condition 6.2 is satisfied.

Dust

6.7 Vector shall undertake the construction of the tunnel, portal and associated equipment (including plant room) at the Transpower site in such a manner that avoids as far as practicable the generation of dust from such activities which causes or is likely to cause a partial or total shutdown of transmission of electricity through the substation.

6.8 Without limiting the effect of Condition 6.7, no construction activity shall generate more than 60 micrograms per cubic metre of dust or air suspended particulate matter, as measured over any 5 day period at the boundary of the Transpower site.

6.9 Any measures adopted to remedy the effects of dust generation (including live line washing) shall be undertaken so as to avoid or mitigate as far as practicable any potential adverse effects of such activities on adjacent residential properties in Gavin Street.

6.10 Vector shall undertake monitoring of any dust generated by construction activities, for the purpose of determining whether Conditions 6.7 and 6.8 hereof are being complied with. Monitoring will be undertaken daily for the first month of tunnel blasting (not including any trial blasting). Further monitoring shall be undertaken during the construction period to determine compliance with Conditions 6.7 and 6.8 hereof as appropriate or as a result of any complaints by owners and/or occupiers of adjoining residential properties. The further monitoring shall be at the discretion of the Manager: City Planning. Copies of the monitoring results shall be provided to Trans Power. Records shall be made available to Council on request.

6.11 In the event that the monitoring undertaken in accordance with Condition 6.10 hereof indicates a failure to comply with Conditions 6.7 and 6.8 hereof, Vector shall adopt alternative methods to ensure that those conditions are satisfied.

Visual

6.12 Any visual effects of construction activities on adjoining residential properties in Gavin Street, including the effects of any stockpile, shall be minimised.

6.13 Without limiting Condition 6.12, prior to the commencement of other work on the site Vector shall construct an acoustical fence of a height not less than 1.8 metres (being at least a concrete block wall of a single block width) on Trans Power's site, in the location shown on the attached plan marked "A".

6.14 As soon as practicable after construction of the fence referred to in paragraph 6.13 hereof, permanent landscaping of the area between this fence and the boundary of adjacent residential properties in Gavin Street shall be undertaken, to the satisfaction of the Manager - Resource Consents and Compliance.

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Access

6.15 The construction area shall be separated from the balance of Transpower's site by an appropriate security fence.

6.16 The only access and egress to the construction site shall be via a gate as shown on the attached plan marked "A" as Transpower's Gate 2 on Gavin Street.

Management Plan

6.17 Condition 1.13 shall apply to any management plan developed under Conditions 6.19 and 6.20 below.

6.18 Vector shall, at least 20 working days before the commencement of construction on the Transpower site, submit to the Manager - Resource Consents and Compliance, for approval, a Penrose Portal and Plantroom Construction Management Plan for the land as shown on the attached plan marked "A" setting out:

- a. Portal and plantroom design details (including site development, landscaping, and access details), construction plans and methods, and proposed maintenance methods and practices.
- b. The manner in which the requirements of the above Conditions relating to vibration, dust, lighting and access are to be complied with and shall include a driver awareness programme.

6.19 The Management Plan submitted in accordance with Condition 6.18 here of shall:

- a. Be to a standard satisfactory to the Manager - Resource Consents and Compliance, Auckland City Council.
- b. Be prepared in consultation with Transpower New Zealand Limited.
- c. Contain a statement from Trans Power acknowledging that consultation in accordance with paragraph (b) hereof has been undertaken.

6.20 The Council shall approve the plan or advise Vector of any recommended amendments thereto or additional information required within 10 working days of the receipt of the Management Plan.

6.21 The portal and plantroom and associated activities shall be constructed in general accordance with the requirements of the Management Plan approved by the Council.

7. Liverpool Street and Hobson Street Sites

7.1 Prior to the installation of transformers at these sites, a hazard mitigation plan shall be produced for the transformers at the Liverpool and Hobson substations to the satisfaction of Manager - Resource Consents and Compliance. The plan shall cover operating and maintenance procedures to prevent oil leaks from contaminating the environment and detail cleanup procedures including disposal of any wastes in the event of an oil leak.

7.2 An archaeologist shall be present during the initial stages of work at Liverpool St and Hobson St egresses. The archaeologist shall remain at the sites until the archaeologist considers his/her presence is no longer required. The archaeologist shall advise the Manager - Resource Consents and Compliance in writing when his/her attendance is no longer required.

7.4 Prior to any building occurring across the boundaries of Lot 1 DP 112657, Lot 1 51978 and Lot 1 DP 52038 in conjunction with the extension to the Liverpool St substation, the affected Certificates of Title shall be held together in such a way they cannot be dealt with separately without the prior written consent of Council.

7.5 Prior to commencing work under Hobson St:

- a. Vector, in consultation with a representative of the Roman Catholic Bishop of Auckland, shall arrange for establishment of survey measuring points at St Patrick's Cathedral and the Cathedral Presbytery; and
- b. Vector shall participate with the Bishop's representative in updating the existing survey of the physical condition of St Patrick's Cathedral

7.6 The survey measuring points established in accordance with Condition 7.5(a) above shall be surveyed

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regularly by an independent surveyor during construction works until sufficient time has elapsed to give a high level of confidence that no deformations are likely to occur .

7.7 The survey measurements taken in accordance with Conditions 7.5(a) and 7.6 above shall be supplied to the Roman Catholic Bishop of Auckland and to Manager - Resource Consents and Compliance.

7.8 If the survey measurements taken in accordance with Conditions 7.5(a) and 7.6 above indicate that movement has occurred then Vector shall, in conjunction with the Bishop's representative, resurvey St Patrick's Cathedral and any new physical damage which is verified by an independent engineer as being caused by the construction of the tunnel shall be rectified at Vector's expense.

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

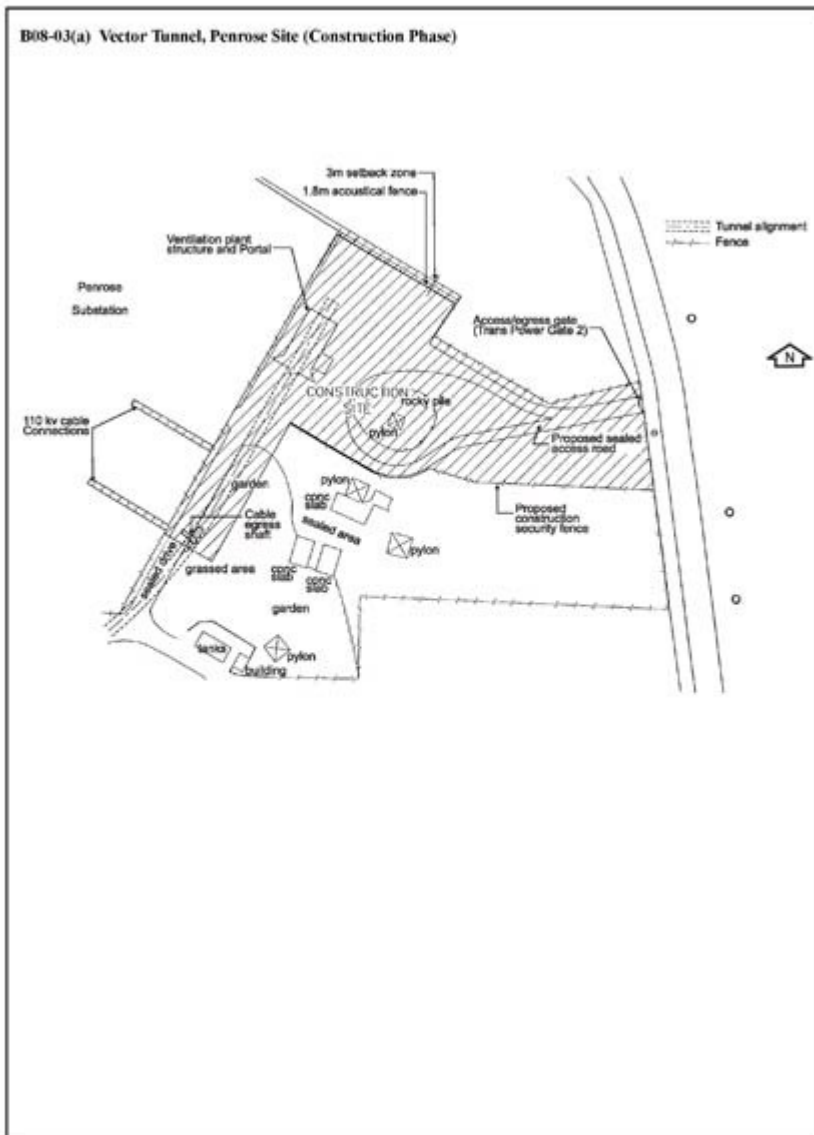
1. The requiring authority needs to obtain all other necessary consents and permits, including those under the Building Act 1991, and comply with all relevant Council bylaws.

2. 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 District Plan. The provisions of Section 177 of the Resource Management Act 1991 apply accordingly.

Attachments

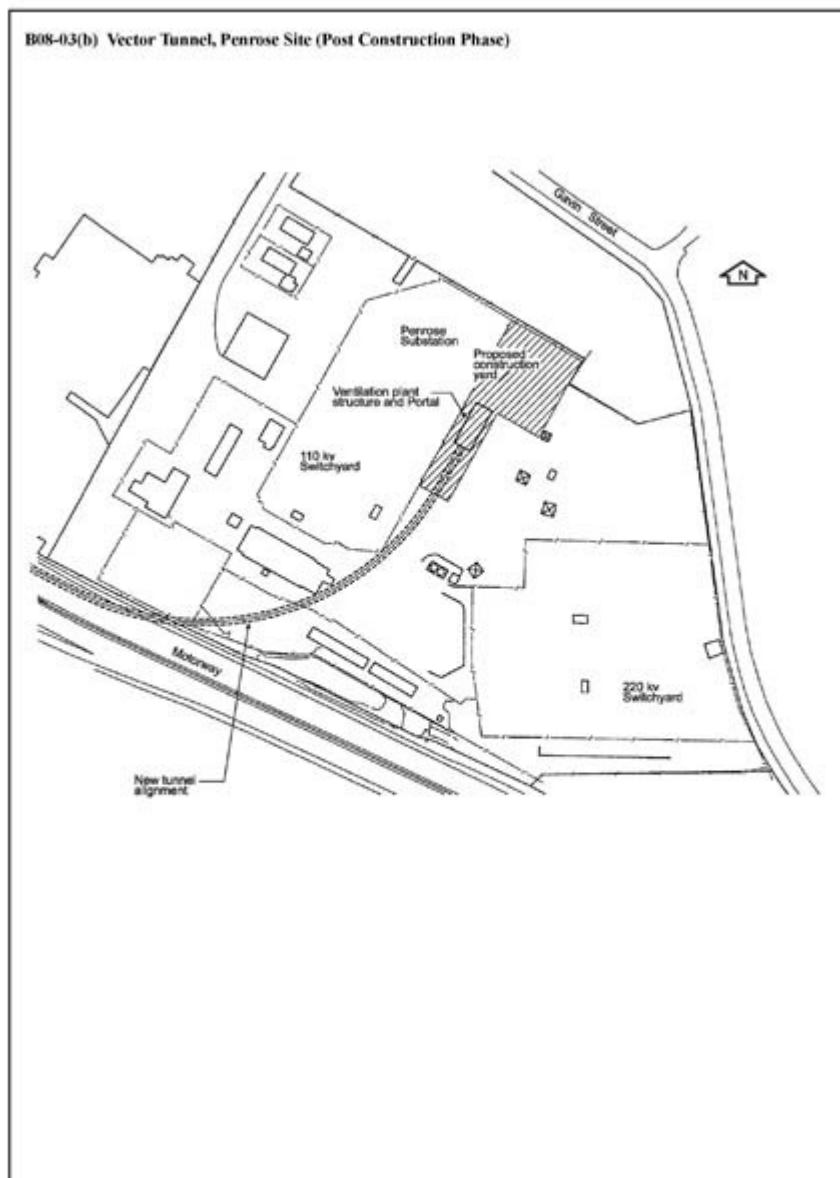
B08-03(a) Vector Tunnel, Penrose Site (Construction Phase)

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B08-03(b) Vector Tunnel, Penrose Site (Post Construction Phase)

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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

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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

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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

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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)

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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 substation purposes.

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.

8841 Penrose to Hobson Street Tunnel

Designation Number	8841
Requiring Authority	Vector Ltd
Location	19 Gavin Street, Ellerslie to 13-21 Hobson Street, Auckland Central
Rollover Designation	Yes
Legacy Reference	Designation 288, Auckland Council District Plan (Central Area Section) 2005; and Designation B08-03, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

Purpose

Electricity transmission for the purposes of conveying electricity to the Auckland CBD.

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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.

1.4 During the construction of the tunnel and associated works this designation shall include that area of the Transpower site at Penrose ("All that parcel of land containing 7.7452 hectares more or less being Lot 1 Deposited Plan 141417 situated in Block 1 Otahuhu Survey District" being all the land comprised in Certificate of Title 83D/707 North Auckland Registry) ("Transpower Site") which is shown as shaded on the attached plan marked "A" together with the land for the tunnel alignment.

1.5 On the completion of construction Vector shall advise in writing the Manager - Regional and Local Planning and Transpower that construction is complete. On the date on which this advice is given the extent of this designation as it relates to the Transpower Site shall be reduced to the area which is shown as shaded on the attached plan marked "B", together with the land for the tunnel alignment.

1.6 The design of the tunnel and associated works shall be sufficient to ensure that the tunnel structure lasts for a minimum life of 200 years.

1.7 The tunnel shall be constructed in such a way as to prevent damage, loss of amenity or injury to people, buildings, and other property due to erosion, subsidence, or loss of support of the land adjacent to the tunnel.

1.8 When the tunnel, or any length of it, is no longer required, the length no longer required shall be backfilled to prevent subsidence.

1.9 All heated air and contaminated air from the tunnel and associated work shall be disposed of in a way which

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avoids creating a nuisance or hazard to people and other property.

1.10 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.

1.11 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.

1.12 Dust arising from construction activities shall be suppressed by the use of water sprays and other appropriate methods so as to prevent nuisance to adjacent occupiers and landowners.

1.13 Prior to the commencement of construction at each of the following tunnel sites, management plans shall be produced to the satisfaction of the Manager: Resource Consents and Compliance regulating construction activities at the Penrose Portal, Ellerslie Portal, Newmarket Portal, Liverpool substation, and Hobson substation. The management plans shall address the following issues:

- a. Traffic movements;
- b. Dust, including the effect of dust on the operation of electrical equipment at the Penrose site;
- c. Stock piling and storage of excavated material;
- d. Storage of construction equipment;
- e. Hours of operation by trucks;
- f. The effect of any vibration on sensitive plant (whether from blasting or otherwise) such as printing presses, and electrical equipment at the Transpower site;
- g. Wheel wash facilities;
- h. Screening of construction activities from residential properties and public places;
- i. Parking of workers' vehicles;
- j. Security fencing;
- k. Lighting in relation to adjacent residential properties.

1.14 Without limiting the effect of Condition 1.13 above the management plan relating to the Penrose Portal shall comply with Conditions 6.19 and 6.20.

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, Trans Power 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. Noise (Excluding Blasting)

2.1 During the period of tunnel construction the daytime (7.30am to 8.00pm) L10 noise levels measured at 1m from the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A" and which is not zoned business activity shall not exceed 70 dBA.

2.1A For the Penrose and Hobson sites only.

During the period of tunnel construction the day time (7.00am to 8.00pm) L10 noise levels measured at 1m for the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A" and which is not zoned business activity shall not exceed 70 dBA.

2.2 During the period of tunnel construction the night time (8.00pm to 7.30am) noise levels as measured at 1m

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from the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A" and which is not zoned business activity shall not exceed 45 dBA L10 and a maximum level (Lmax) of 75 dBA.

2.2A For the Penrose and Hobson sites only

During the period of tunnel construction the night time noise levels as measured at 1m from the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A" and which is not zoned business activity shall not exceed the following noise levels and a maximum level (Lmax) of 75 dBA:

Penrose Site:

Monday to Saturday	8.00 pm to 11.00 pm	60 dBA L10
Monday to Saturday	11.00 pm to 7.00 am	50 dBA L10
Sunday night to Monday morning	8.00 pm to 7.00 am	45 dBA L10

Hobson Site:

Monday to Saturday	8.00 pm to 9.00 pm	60 dBA L10
Monday to Saturday	9.00 pm to 11.00 pm	55 dBA L10
Monday to Saturday	11.00 pm to 5.00 am	55 dBA L10
Monday to Saturday	5.00 am to 7.00 am	55 dBA L10
Sunday night to Monday morning	8.00 pm to 7.00 am	55 dBA L10

Other sites:

Unless otherwise stated all other sites shall comply with the noise levels contained in Conditions 2.1 and 2.2.

2.2B That, on confirmation by a Council Noise Control Officer that noise complaints received are correctly attributed to activities associated with the Tunnel project, Vector will undertake whatever steps are necessary to ensure that night time noise levels at the Hobson site comply with Condition 2.2A, and will undertake whatever monitoring the Council may reasonably require. Records shall be made available to the Council on request.

2.3 During the period of tunnel construction, subject to Conditions 2.1 and 2.2 above, the L10 noise level generated by the project as measured at any time at 1m from the most exposed window or door of any occupied building on any land which is not the subject of this designation as shown on the attached plan marked "A", and which has a business activity zoning shall not exceed 80 dBA.

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

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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.

3. Blasting

3.1 For the purpose of Conditions 3.1A - 3.8 blasting means the use of explosives to loosen or dislodge rock material.

3.1 A Prior to blasting within the tunnel, Vector shall give at least 12 hours written notice of the location and timing of the blast(s) to the following parties:

- a. Occupants of buildings within 100m of the blast site; and
- b. Manager: Resource Consents and Compliance

3.2 Notwithstanding Condition 3.1 hereof trial blasting shall be undertaken in accordance with Conditions 6.1 - 6.4 inclusive.

3.3 Blasting activities shall be so controlled as to ensure that any ground vibration as the result of any blasting will not adversely affect the structural stability of any building or structure including electrical equipment (that is not connected with the site covered by this designation) or cause a reduction in its utility value. Peak particle velocities measured on any foundation or uppermost full story of any building not related to the site, which do not exceed the limits set out in Table 1 of German Standard DIN 4150 Part 3:1986 "Structural Vibration in Buildings - Effect on Structures", will be deemed to meet these requirements. Peak particle velocity means the maximum particle velocity in any of the three mutually perpendicular directions. The units are millimetres per second (mm/s).

3.4 The noise created by the use of explosives for blasting shall either not exceed a peak overall sound pressure level of 128 dB (ie a peak over pressure of 0.05 kPa) or alternatively the noise shall not exceed a peak sound level of 122 dBC. The measurement shall be made in either case at 1m from the most exposed window or door of any occupied building (that is not connected with the Transpower site).

3.5 The maximum number of blasts shall be limited to three times per day per location. The locations are on land included in this designation and comprise the following places where the tunnel exits to ground level: Hobson substation, Liverpool substation, Newmarket portal, Ellerslie egress shaft and Penrose portal.

3.6 Except with the permission of Manager: Resource Consents and Compliance, and subject to Condition 3.5, blasting for the Penrose Portal shall only occur between the hours of 7.30am and 8.00pm Monday to Sunday and no blasting shall occur on public holidays.

3.7 Except with the permission of Manager: Resource Consents and Compliance, blasting at all other tunnel sites shall only occur between the hours of 7.30am and 8.00pm Monday to Saturday and no blasting shall occur on Sundays and public holidays.

3.8 Vector will take whatever steps are necessary to ensure that blasting complies with conditions 3.3 and 3.4, and will undertake whatever monitoring the Council may reasonably require. Records shall be made available to Council on request. The monitoring sites and methods shall be agreed with Council's Manager: Resource Consents and Compliance prior to the commencement of work.

3.9 The requirement for monitoring and recording may be relaxed at the discretion of Manager: Resource Consents and Compliance after Vector has provided written evidence of consultation by Vector with Trans

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Power in respect of the Trans Power Site if it is considered that the noise and vibration level from blasting at any one location has decreased sufficiently. Any blast undertaken on Sundays and public holidays, or between the hours of 8.00pm and 7.30am, shall be monitored.

4. Vibration

4.1 Activities other than blasting shall not generate vibrations which may cause discomfort or adversely affect the health and well being of the occupants of premises outside the designation as shown on the attached plan marked "A" during construction and the attached plan marked "B" after construction is completed. Vibrations which do not exceed the limits referred to below as set out in the provisions of International Standard ISO 2631-2:1989 "Evaluation of human exposure to whole body vibration - Part 2 Continuous and shock-induced vibration in buildings (1 to 80 Hz)" will be deemed to meet this requirement. These particular limits are that the vibration levels (acceleration measured in metres per second) relative to the frequency shall not exceed the base curves of Figure 2A (z axis), 3a (x, y and z axes) and 4a (combined x, y and z axes) of ISO 2631-2:1989.

4.2 The assessment of continuous, intermittent and transient (impulsive) vibrations shall be carried out by a suitably qualified and experienced person in accordance with Annex A and Table 2 of ISO 2631-2:1989.

4.3 The instruments used to measure vibrations and the methods of measurement shall comply with a recognised standard such as Australian Standard AS 2973:1987 Vibration and Shock - Human response.

4.4 Subject to Conditions 4.5 and 6.2, Manager: City Planning may approve vibration levels above the standards specified in Condition 4.1 where he/she is satisfied that they are necessary for construction or demolition work of a limited duration.

4.5 All tunnel construction activities shall be so controlled as to ensure that any ground vibration created will not adversely affect the structural stability of any building or structure (that is not connected with the land covered by this designation) or cause a reduction in its utility value. Peak particle velocities measured on any foundation or uppermost full storey of any building not related to the site, which do not exceed the limits set out in Table 1 of German Standard DIN 4150 Part 3: 1986 "Structural Vibration in Buildings - Effects on Structures", will be deemed to meet these requirements. Such monitoring as is necessary to ensure compliance with this condition shall be undertaken. Records shall be made available to the Council on request.

5. Traffic

5.1 On site manoeuvring for trucks shall be provided so that no reverse manoeuvring onto the street will occur at any of the tunnel sites.

5.2 Wheel-wash facilities shall be provided for all trucks exiting the tunnel sites so that no excavation material is tracked onto the streets.

5.3 Vector will undertake measures to keep the roads in the vicinity of the tunnel construction sites free from any debris resulting from the construction work.

5.4 Programming of truck movements shall be arranged so that trucks do not wait or queue on the street other than for normal traffic movements when their way is obstructed by opposing traffic. The movements of trucks and other construction traffic shall be regulated in accordance with the management plans referred to in Condition 1.13.

5.5 Hobson Portal

a. There shall be no right turn movements into Fanshawe Street for trucks leaving the site at any time. There shall be no right turn movements from vehicles entering the site from Fanshawe Street between the hours of 4.30pm to 6.00pm, Monday to Friday.

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b. The right turn pocket on Fanshawe St shall be widened and lengthened by Vector in accordance with the attached sketch plan 2289/2 by Traffic Design Group (see B08-03(d)) in order to facilitate the right turn movement of trucks during permitted hours. The costs of these roadworks are to be borne by Vector.

c. A sign to warn Fanshawe Street traffic of slow trucks merging shall be installed to the satisfaction of Council's Manager: Resource Consents and Compliance.

5.6 Newmarket Portal

a. The primary truck routes to and from the site shall be as indicated in the attached plan B08-03(c) being Figure 6, page 16 of the report entitled Assessment of Effects on the Environment: Traffic, January 1996, Traffic Design Group, or such alternative truck routes as agreed by Council as part of the management plan required under Condition 1.13.

5.7 Penrose Portal

a. Right turn movements of trucks at the Gavin St/Penrose Rd intersection shall not be permitted between 7.00am to 9.00am and 4.00pm to 6.00pm, Monday to Friday.

b. There shall be no use by heavy construction vehicles of the northern section of Gavin St which serves residential zoned properties, or of any of Eaglehurst Road.

5.8 Liverpool Street Substation

a. No trucks shall be permitted to use City Rd or Liverpool St between Karangahape Rd and Turner St.

6. Penrose Site

Wilson and Horton Limited

6.1 Notwithstanding the requirements of Conditions 3.3, the following conditions shall apply in respect of the Herald printing press site owned by Wilson and Horton:

a. That vibration at the boundary of the Herald site during the construction of the Penrose Portal shall not exceed 5mm per second or half of any vibration level that is found to interfere with the operation or printing quality of presses on the Herald site, whichever is the lesser;

b. Subject to the requirements of Condition 3.6 and the requirements as to trial blasting in Condition 6.4 hereof, the first blast following the completion of trial blasting at the Penrose Portal and as many subsequent blasts as possible shall occur between the hours of 3.30pm on Saturday and 10.30pm on Sunday;

c. That Vector shall prior to the commencement of the construction of the Penrose Portal install and monitor equipment where agreed with Wilson & Horton to gauge the level of vibration experienced at the Herald site as a result of blasting. If Vector and Wilson & Horton are unable to reach agreement, then monitoring shall occur at the direction of the Manager: City Planning. Records shall be made available to the Council on request; and

d. That if monitoring at any stage shows a level of vibration induced by the tunnel blasting which is interfering with an accepted standard of print register for those presses, then Vector shall use an alternative method of excavation which does not interfere with the printing process; or blast only between the hours of 3.30pm Saturday and 10.30pm Sunday (subject to the Condition 3.6 hereof).

Transpower New Zealand Limited

Transpower New Zealand Ltd

6.2 Vector shall undertake the construction of the tunnel, portal and associated equipment (including plant room) at the Transpower site in such a manner that avoids as far as practicable a level of vibration induced by such activities which causes or is likely to cause a partial or total shut down of transmission of electricity through the substation.

6.3 Prior to the commencement of construction, Vector shall undertake trial blasting and trial truck movements for the purpose of determining levels of vibration which, if not exceeded, would ensure that the obligation arising under Condition 6.2 hereof is satisfied. Such trials shall be undertaken in the presence of a representative or

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representatives of Transpower New Zealand Limited. Records shall be made available to the Council on request.

6.4 Such trial blasts as required by Condition 6.3, shall occur between the hours of 3:30 pm to 6:00 pm Saturday and 9:00 am to 6:00 pm Sunday over four consecutive weekends. Three days notice of such trial blasting shall be given to the Manager: Resource Consents and Compliance.

6.5 Vector shall install equipment for the purpose of measuring and monitoring the level of vibration induced at Trans Power's Penrose substation site as a result of construction, the location of such equipment to be agreed with Trans Power New Zealand Ltd. If Vector and Trans Power are unable to reach agreement about the location, such monitoring shall be undertaken as required by the Manager: Resource Consents and Compliance, Auckland City Council. Records shall be made available to Council on request.

6.6 In the event that the monitoring undertaken pursuant to Condition 6.4 hereof indicates that levels of vibration induced by construction activities have resulted in or are likely to result in a failure to comply with Condition 6.2 hereof, Vector shall adopt alternative methods to ensure that Condition 6.2 is satisfied.

Dust

6.7 Vector shall undertake the construction of the tunnel, portal and associated equipment (including plant room) at the Transpower site in such a manner that avoids as far as practicable the generation of dust from such activities which causes or is likely to cause a partial or total shutdown of transmission of electricity through the substation.

6.8 Without limiting the effect of Condition 6.7, no construction activity shall generate more than 60 micrograms per cubic metre of dust or air suspended particulate matter, as measured over any 5 day period at the boundary of the Transpower site.

6.9 Any measures adopted to remedy the effects of dust generation (including live line washing) shall be undertaken so as to avoid or mitigate as far as practicable any potential adverse effects of such activities on adjacent residential properties in Gavin Street.

6.10 Vector shall undertake monitoring of any dust generated by construction activities, for the purpose of determining whether Conditions 6.7 and 6.8 hereof are being complied with. Monitoring will be undertaken daily for the first month of tunnel blasting (not including any trial blasting). Further monitoring shall be undertaken during the construction period to determine compliance with Conditions 6.7 and 6.8 hereof as appropriate or as a result of any complaints by owners and/or occupiers of adjoining residential properties. The further monitoring shall be at the discretion of the Manager: City Planning. Copies of the monitoring results shall be provided to Trans Power. Records shall be made available to Council on request.

6.11 In the event that the monitoring undertaken in accordance with Condition 6.10 hereof indicates a failure to comply with Conditions 6.7 and 6.8 hereof, Vector shall adopt alternative methods to ensure that those conditions are satisfied.

Visual

6.12 Any visual effects of construction activities on adjoining residential properties in Gavin Street, including the effects of any stockpile, shall be minimised.

6.13 Without limiting Condition 6.12, prior to the commencement of other work on the site Vector shall construct an acoustical fence of a height not less than 1.8 metres (being at least a concrete block wall of a single block width) on Trans Power's site, in the location shown on the attached plan marked "A".

6.14 As soon as practicable after construction of the fence referred to in paragraph 6.13 hereof, permanent landscaping of the area between this fence and the boundary of adjacent residential properties in Gavin Street

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shall be undertaken, to the satisfaction of the Manager: Resource Consents and Compliance.

Access

6.15 The construction area shall be separated from the balance of Transpower's site by an appropriate security fence.

6.16 The only access and egress to the construction site shall be via a gate as shown on the attached plan marked "A" as Transpower's Gate 2 on Gavin Street.

Management Plan

6.17 Condition 1.13 shall apply to any management plan developed under Conditions 6.19 and 6.20 below.

6.18 Vector shall, at least 20 working days before the commencement of construction on the Transpower site, submit to the Manager: Resource Consents and Compliance, for approval, a Penrose Portal and Plantroom Construction Management Plan for the land as shown on the attached plan marked "A" setting out:

- a. Portal and plantroom design details (including site development, landscaping, and access details), construction plans and methods, and proposed maintenance methods and practices.
- b. The manner in which the requirements of the above Conditions relating to vibration, dust, lighting and access are to be complied with and shall include a driver awareness programme.

6.19 The Management Plan submitted in accordance with Condition 6.18 here of shall:

- a. Be to a standard satisfactory to the Council's Manager: Resource Consents and Compliance.
- b. Be prepared in consultation with Transpower New Zealand Limited.
- c. Contain a statement from Trans Power acknowledging that consultation in accordance with paragraph (b) hereof has been undertaken.

6.20 The Council shall approve the plan or advise Vector of any recommended amendments thereto or additional information required within 10 working days of the receipt of the Management Plan.

6.21 The portal and plantroom and associated activities shall be constructed in general accordance with the requirements of the Management Plan approved by the Council.

7. Liverpool Street and Hobson Street Sites

7.1 Prior to the installation of transformers at these sites, a hazard mitigation plan shall be produced for the transformers at the Liverpool and Hobson substations to the satisfaction of Manager: Resource Consents and Compliance. The plan shall cover operating and maintenance procedures to prevent oil leaks from contaminating the environment and detail cleanup procedures including disposal of any wastes in the event of an oil leak.

7.2 An archaeologist shall be present during the initial stages of work at Liverpool St and Hobson St egresses. The archaeologist shall remain at the sites until the archaeologist considers his/her presence is no longer required. The archaeologist shall advise the Manager: Resource Consents and Compliance in writing when his/her attendance is no longer required.

7.4 Prior to any building occurring across the boundaries of Lot 1 DP 112657, Lot 1 51978 and Lot 1 DP 52038 in conjunction with the extension to the Liverpool St substation, the affected Certificates of Title shall be held together in such a way they cannot be dealt with separately without the prior written consent of Council.

7.5 Prior to commencing work under Hobson St:

- a. Vector, in consultation with a representative of the Roman Catholic Bishop of Auckland, shall arrange for establishment of survey measuring points at St Patrick's Cathedral and the Cathedral Presbytery; and
- b. Vector shall participate with the Bishop's representative in updating the existing survey of the physical condition of St Patrick's Cathedral

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7.6 The survey measuring points established in accordance with Condition 7.5(a) above shall be surveyed regularly by an independent surveyor during construction works until sufficient time has elapsed to give a high level of confidence that no deformations are likely to occur .

7.7 The survey measurements taken in accordance with Conditions 7.5(a) and 7.6 above shall be supplied to the Roman Catholic Bishop of Auckland and to Manager: Resource Consents and Compliance.

7.8 If the survey measurements taken in accordance with Conditions 7.5(a) and 7.6 above indicate that movement has occurred then Vector shall, in conjunction with the Bishop's representative, resurvey St Patrick's Cathedral and any new physical damage which is verified by an independent engineer as being caused by the construction of the tunnel shall be rectified at Vector's expense.

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.

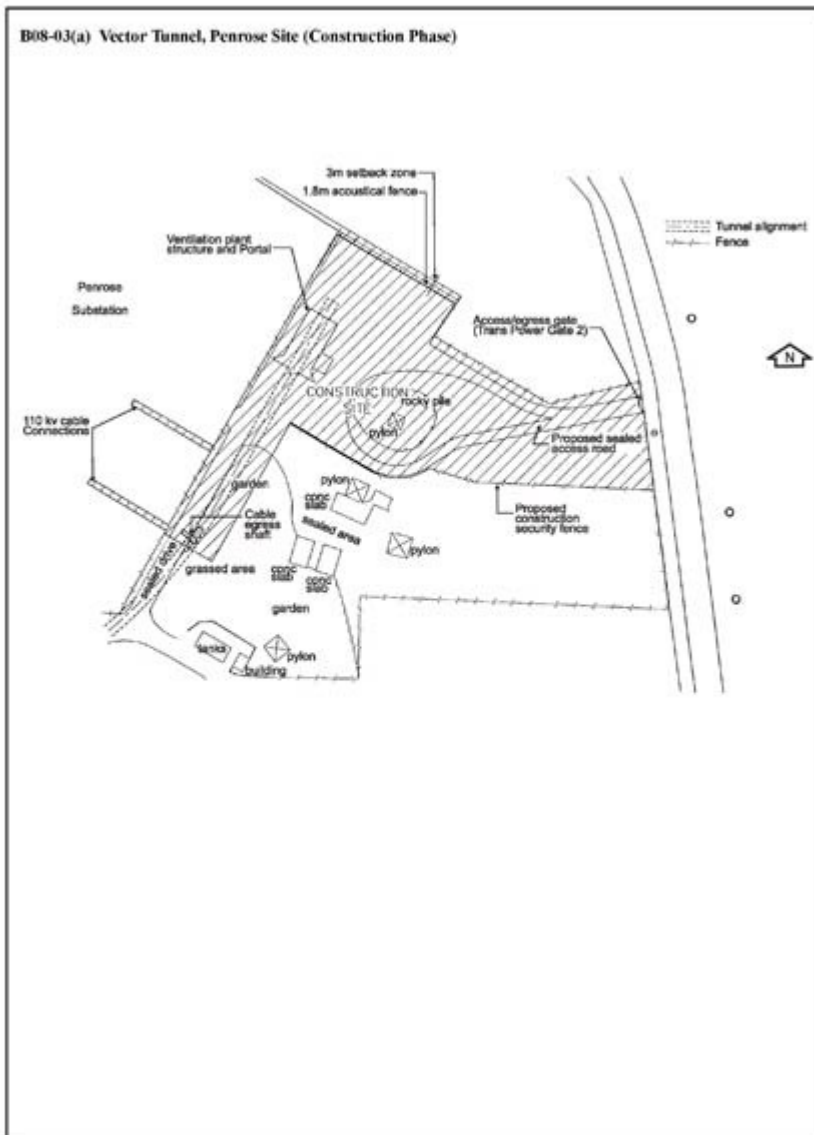
Advice Notes

1. The requiring authority needs to obtain all other necessary consents and permits, including those under the Building Act 1991, and comply with all relevant Council bylaws.
2. 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 District Plan. The provisions of Section 177 of the Resource Management Act 1991 apply accordingly.

Attachments

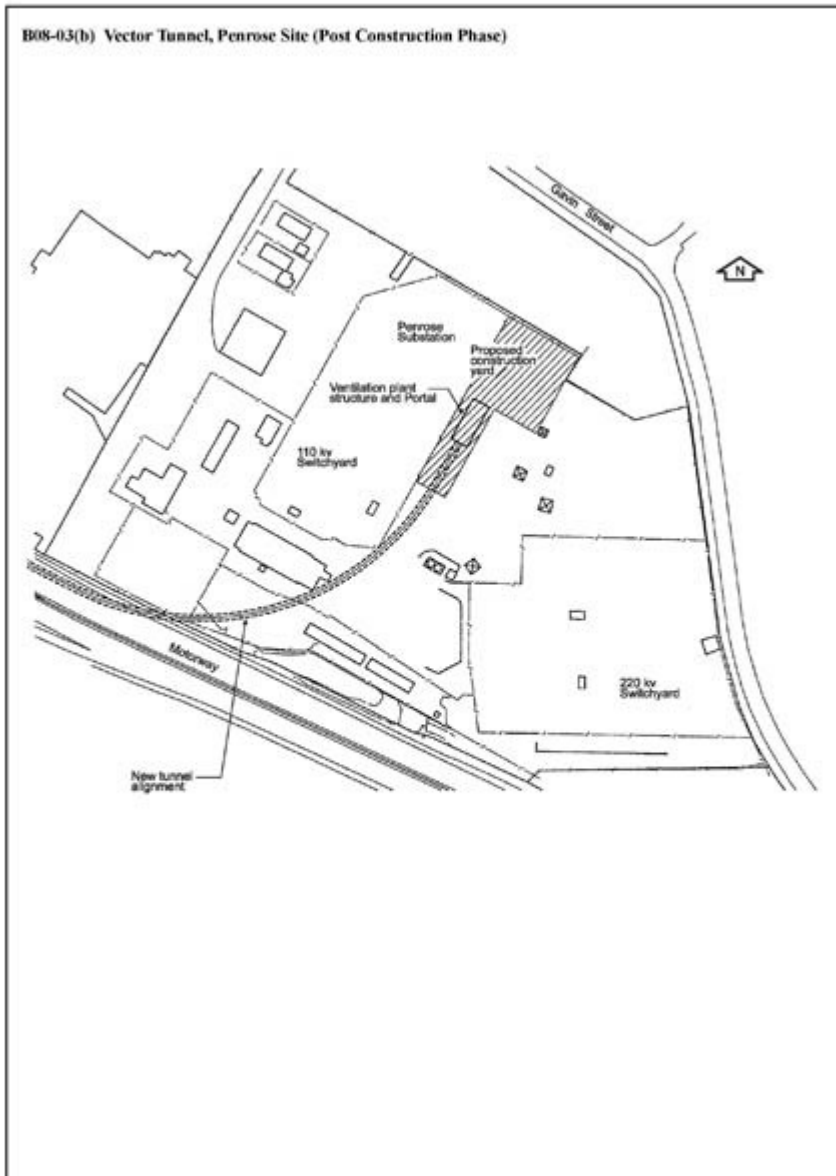
B08-03(a) Vector Tunnel, Penrose Site (Construction Phase)

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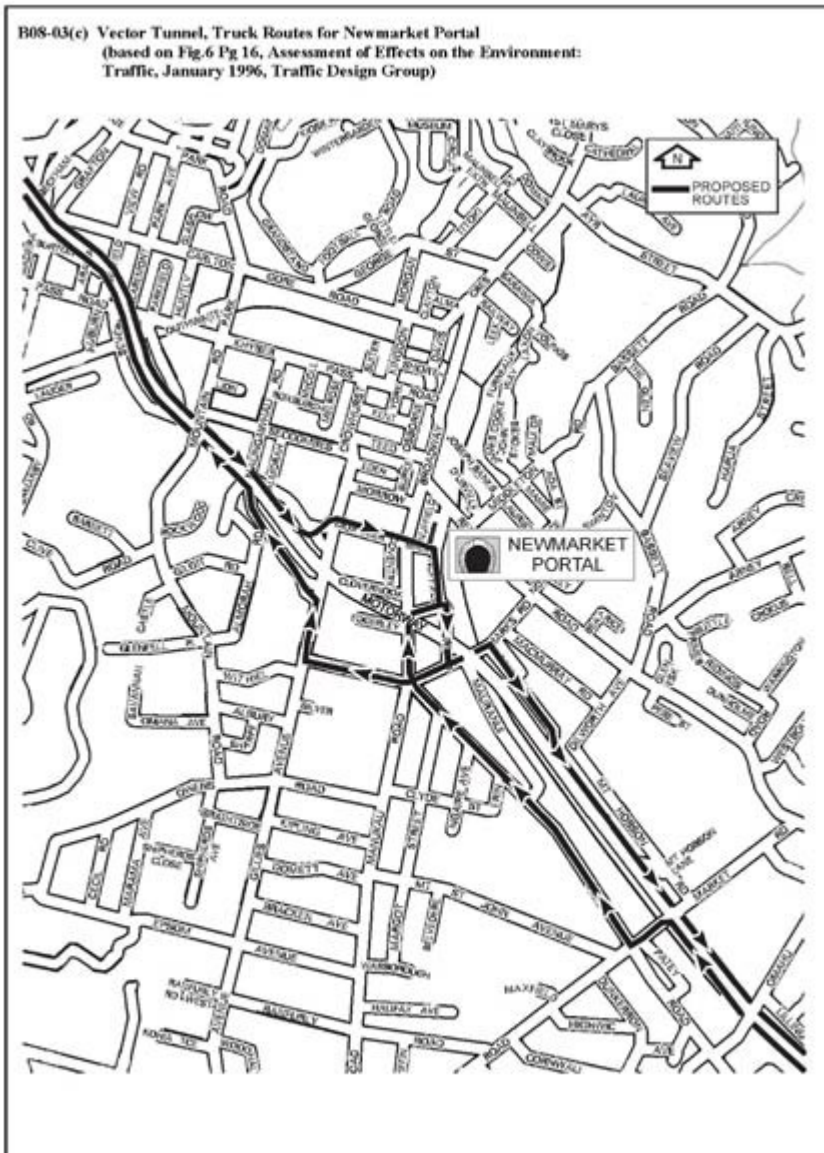
B08-03(b) Vector Tunnel, Penrose Site (Post Construction Phase)

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B08-03(c) Vector Tunnel, Truck Routes for Newmarket Portal

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B08-03(d) Vector Tunnel, Road Improvements, Fanshawe Street

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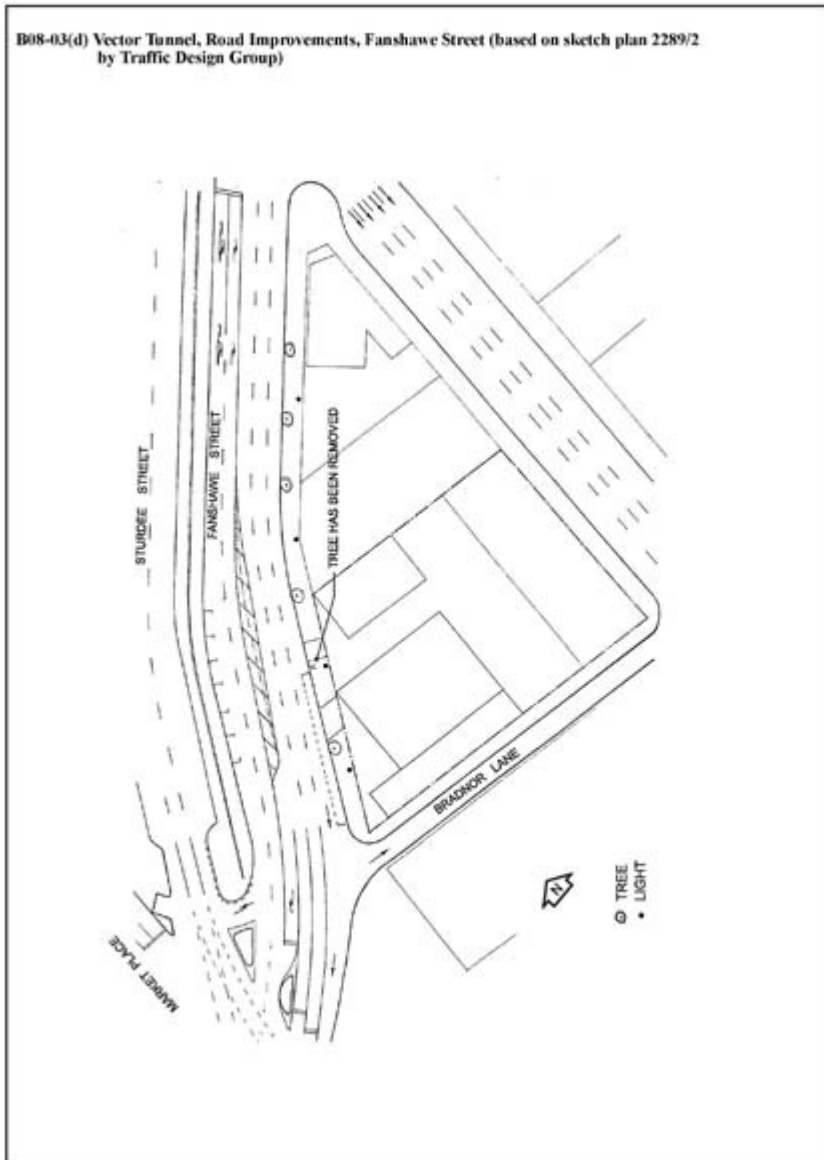
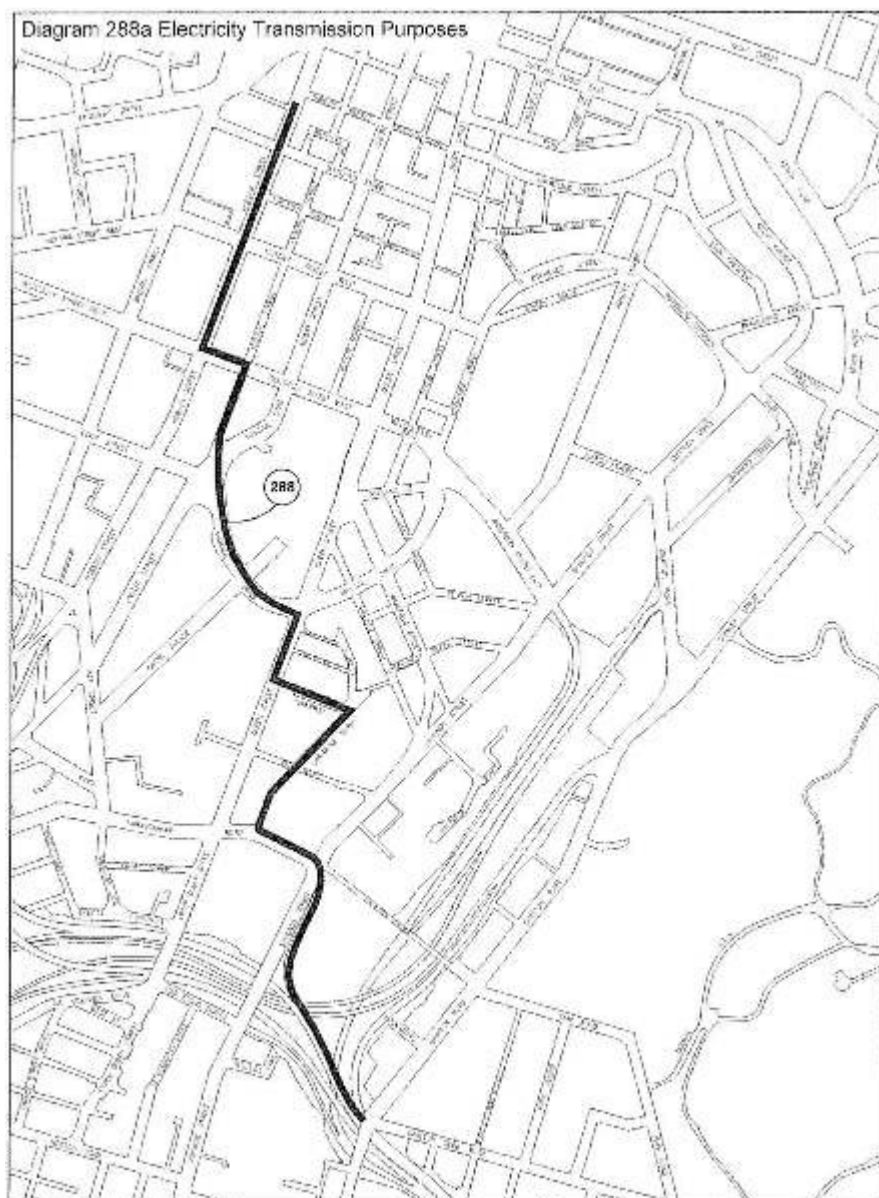


Diagram 288a Electricity Transmission Purposes

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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	Given effect to (i.e. no lapse date)

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.

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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. Subject to Section 184 of the Resource Management Act 1991, the designation shall lapse on the expiry of 15 years after the date on which it is included in the District Plan.
5. 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.
6. 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.
7. 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

8. 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.
9. All cables shall be installed in accordance with the relevant New Zealand Codes of Practice, including NZECP 34 and 35. 10. 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.

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11. 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.

12. 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.

13. 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 - Infrastructure and Environmental Services, 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.

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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 - Infrastructure and Environmental Services 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.

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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 - Infrastructure and Environmental Services.

Attachments

No attachments.

8843 Glenvar Substation

Designation Number	8843
Requiring Authority	Vector Ltd

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Location	375 Glenvar Road, Torbay
Rollover Designation	Yes
Legacy Reference	Designation 185, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	14 August 2019 or five years from being operative in the Unitary Plan, whichever is the latter unless given effect to prior

Purpose

Electricity works (substation).

Conditions

- i. That the scope and extent of the works within the designated area be in accordance with the Notice of Requirement for a Designation dated 12 March 2009; and in accordance with the approved designation conditions.
- ii. Any proposal which would breach the conditions will require either an alteration to the designation in order to specifically alter the condition to which it is subject (section 181 of the Resource Management Act 1991), or will be considered in terms of the District Plan's underlying zoning provisions (section 176(2) of the Act).

1. General

a. That pursuant to Section 184 of the Resource Management Act 1991, this designation SHALL LAPSE 10 years after the granting of this consent unless given effect to before that date, or an extension is given in terms of Section 184(2)(b).

b. The electricity substation shall be constructed in general accordance with the Notice of Requirement by Vector Limited for a designation for a "Substation – Glenvar Road, dated 12 March 2009 at 375 Glenvar Road, Torbay being Allotment 320 Parish of Okura. This includes the following plans prepared by Vector Limited: Drawing number 4259-8002 - Revision G Sheet 1 dated 06 March 09 Drawing number 4259-8004 - Revision E Sheet 1 dated 06 March 09 Drawing number 4259-0020 - Revision D Sheet 1 dated 06 March 09 Drawing number 4259-0020a- Revision B Sheet 1 dated 06 March 09 Drawing number 4259-8010 - Revision C Sheet 1 dated 06 March 09 Drawing number 4259-8003 - Revision E sheet 1 dated 23 June 2009

2. Outline Plan

a. 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 District Plan, an Outline Plan shall be submitted in accordance with Section 176A of the Resource Management Act, 1991 before any construction is commenced. However, where the future additional work is in accordance with the Notice of Requirement or is permitted by the District Plan, then the requirement for an Outline Plan is waived under s176A(2).

3. Building Height, Bulk and Location

The development of any further buildings or structures on the site shall comply with the following development controls:

- a. Fences: Security fencing is not to exceed a maximum height of 2 metres;
- b. Minimum Distance of Buildings from Designation Boundaries: 5 metres;
- c. Maximum Building Height: 8 metres; and
- d. Height in Relation to Boundary: No part of any building is to exceed a height equal to 2.5 metres plus the shortest horizontal distance between that part of the building and the designation boundary.

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4. Noise

a. Operational noise (including noise from mechanical ventilation systems) from the substation shall not exceed the following levels:

Maximum Permitted Noise Levels				
	Mon-Sat Inclusive 0700hrs - 2000hrs	Mon-Sat Inclusive 2000hrs - 2300hrs	Public Holidays 0700hrs - 2400hrs	All Other Times
As measured at any residential zone boundary and any residential site boundary in the rural zone	50 dBA L10	45 dBA L10	45 dBA L10	40 dBA L10 75 dBA Lmax

Note:

Noise levels specified in this table shall be measured and assessed in accordance with the requirements in NZS 6801:2008: 'Measurement of Sound' and NZS 6802:2008: 'Assessment of Environmental Sound'. The noise shall be measured with a sound level meter complying with the international standard Sound Level Meters, Type 1.

b. Noise from construction activities shall not exceed the limits recommended in and shall be measured and assessed in accordance with, the new Zealand Standard NZS 6803:1999, Acoustics – Construction Noise.

5. Tree Protection and Landscaping

a. During the period of site development works relating to this proposal, there shall be no disturbance or removal of any vegetation outside of the affected construction area except as shown on the landscaping plan prepared Vector Drawing No: 4259-8003 Revision E sheet 1 dated 23 June 2009.

b. Prior to the commencement of any works on the subject site (including site preparation and clearance activities) tree protection fencing (fit for the purpose of excluding construction activity) shall be erected around all retained trees under the supervision of a qualified arborist.

c. Within the current or next planning season (i.e. autumn to spring) immediately following completion of all construction works relating to this proposal, the Requiring Authority shall implement the landscaping of the site as shown on the landscaping plan prepared by Vector Drawing number 4259-8003 - Revision E sheet 1 dated 23 June 2009.

d. The growth and development of the newly planted landscape plants shall be monitored for FIVE years following completion of planting of those plants. It shall be the responsibility of the Requiring Authority to ensure that any new plantings that die or decline, to a point that in the opinion of the Council's Monitoring Officer are of no value, at any time over the next FIVE years following the initial planting, shall be replaced. The replacement plants shall be of the same species, grade and size as shown on the landscaping plan prepared by Vector Drawing No: 4259-8003 Revision E sheet 1 dated 23 June 2009 and planted no later than the following planting season (i.e. autumn to spring), following instruction to do so by Council.

6. Earthworks, Erosion and Sediment Control and Dust and Noise

a. The Requiring Authority shall comply with the approved Erosion and Sediment Control Plan prepared by Vector Limited dwg: 4259-8009 – Rev D sheet 1 of 1 to Councils satisfaction.

b. The Requiring Authority shall ensure all necessary measures indicated in the Plan approved by Council and as outlined in report prepared by SKM dated 15 October 2008 referenced ZP00017 are implemented.

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c. A certificate of establishment shall be submitted to Council prior to the commencement of any construction works confirming that all necessary measures proposed in the approved Erosion and Sediment Control Plan are implemented.

d. All personnel working on the site shall be made aware of the 'Erosion and Sediment Control Plan' and its requirements. The approved 'Erosion and Sediment Control Plan' shall be kept on site for inspection by Council's Compliance Officer.

e. The Requiring Authority shall institute appropriate measures to control or mitigate any potential dust nuisance. All such measures initiated shall be maintained throughout the entire duration of the construction period.

f. The Requiring Authority shall implement, to the satisfaction of Council's Development Engineer, suitable measures to prevent depositing of earth on surrounding streets by trucks moving fill and other materials to and from the site. In the event that any material is deposited on the street, the Requiring Authority shall take immediate action, at their expense, to clean the street. The loading of earth, fill and other materials shall be confined to the subject site.

g. The Requiring Authority shall engage a qualified professional engineering consultant to observe bulk earthworks and construction of any temporary or permanent works associated with the establishment of excavated or filled areas or building platforms or protecting the land. Work methodologies shall be in accordance with the recommendations outlined in the Notice of Requirement or as amended by the engineer.

h. The engineer shall be engaged so that he is able to direct the contractor as may be required. The construction monitoring service shall be at a level not less onerous than CM4 as defined by the IPENZ.

7. Geotechnical

a. All development on the site shall be designed and undertaken in accordance with the recommendations and limitations of the geotechnical report reference number ZP00017-RPT-GT-1.

8. Stormwater

a. The detailed design of the stormwater management system for the site shall be designed and constructed to the satisfaction of the Council and shall be in accordance with the report and supporting plans and documents prepared by SKM titled Glenvar Road substation – Erosion/Sediment Control Plan & Stormwater Connection / Mitigation Details dated 15 October 2008 referenced ZP00017.

9. Traffic

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

b. That the vehicle access, parking and manoeuvring areas be formed and surfaced to the Council's satisfaction.

c. That a new vehicle crossing shall be designed and constructed to commercial vehicle crossing standard in accordance with the Council's Infrastructure Design Standards to Council's satisfaction, having first obtained a Road Opening Notice.

10. Lighting

a. At no time between the hours 2200 and 0700 shall any outdoor lighting be used in a manner that the use of such lighting causes an added illuminance in excess of 20 lux measured horizontally or vertically at any point along any boundary of any adjoining site which is zoned Residential (and outside the designated area).

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b. All outdoor lighting shall be shielded in such a manner that light emitted by the fixture is projected below a horizontal plane running through the lowest point in the fixture where that light is emitted, or is shielded in such a manner that the lowest edge of the shield is at or below the centre line of the light source.

11. Services

a. That all services, including power supply to and output from, the substation be underground.

12. Electricity Supply and Distribution Statues and Regulations

a. 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) at all times: electric field strength: 5 kV/m and magnetic flux density: 100 microtesla.

b. The Requiring Authority shall engage an electrical engineer to carry out measurement of the electric and magnetic fields emitting from this substation to confirm the compliance with the ICNIRP guidelines. An engineer's report with measurement results shall be provided to Council within two months of the substation commencing operation and within two months of the commencement of operation of the second transformer.

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

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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
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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).

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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

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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

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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.

8851 Titirangi Substation

Designation Number	8851
Requiring Authority	Vector Ltd
Location	515 South Titirangi Road, Titirangi
Rollover Designation	Yes
Legacy Reference	Designation V16, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Five years from being operative in the Unitary Plan unless given effect to prior

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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

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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.

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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 (d) 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 (g) 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.

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

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.

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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

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Lapse Date	Given effect to (i.e. no lapse date)
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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

The Proposed Auckland Unitary Plan (notified 30 September 2013)

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

The Proposed Auckland Unitary Plan (notified 30 September 2013)

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
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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).

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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

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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

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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

No conditions.

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	29 July 2021

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".

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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 District 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 District 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

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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 of a permeable surfacing to reduce stormwater runoff shall be provided to allow vehicles to perform a 1800 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.

12. (construction noise) 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.

13. (archaeological) 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

The Proposed Auckland Unitary Plan (notified 30 September 2013)

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

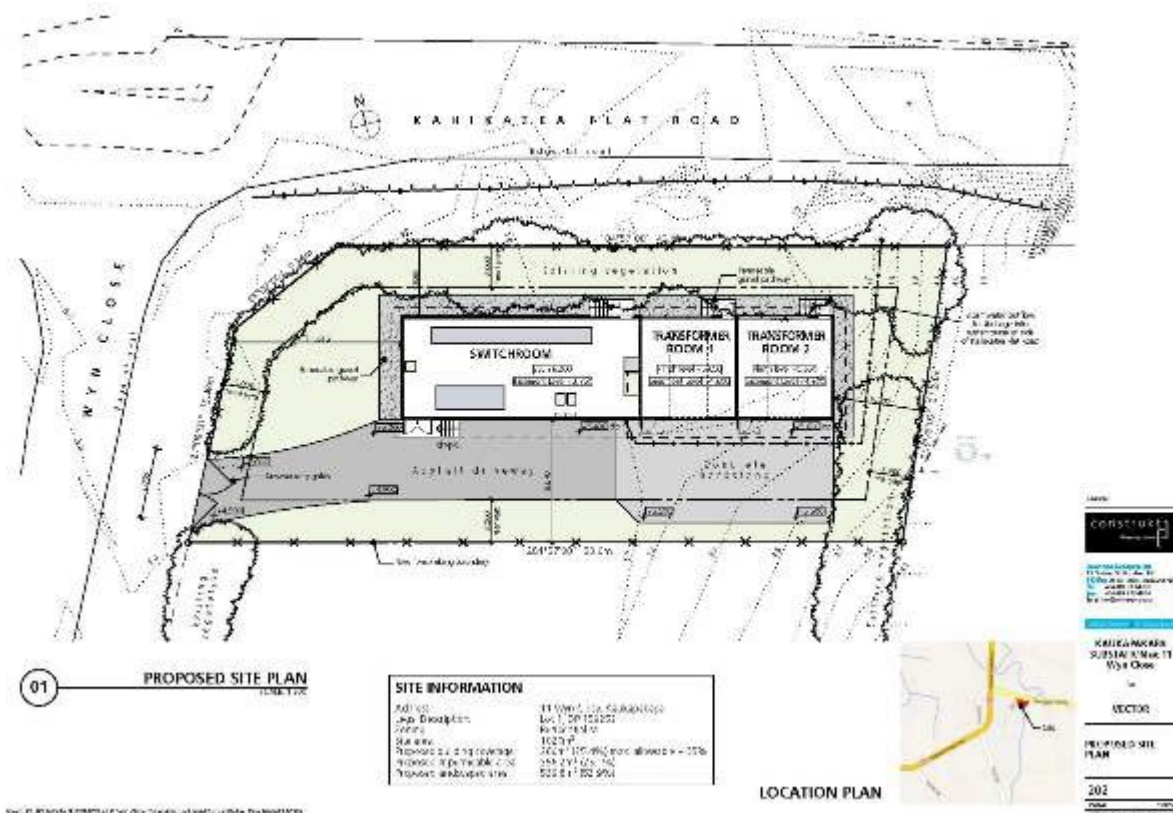
15. The Requiring Authority shall engage a suitably qualified person to carry out measurement of the electric and magnetic fields emitting from this substation to confirm the compliance with the ICNIRP guidelines in effect at the time the substation is constructed. A report with measurement results shall 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.

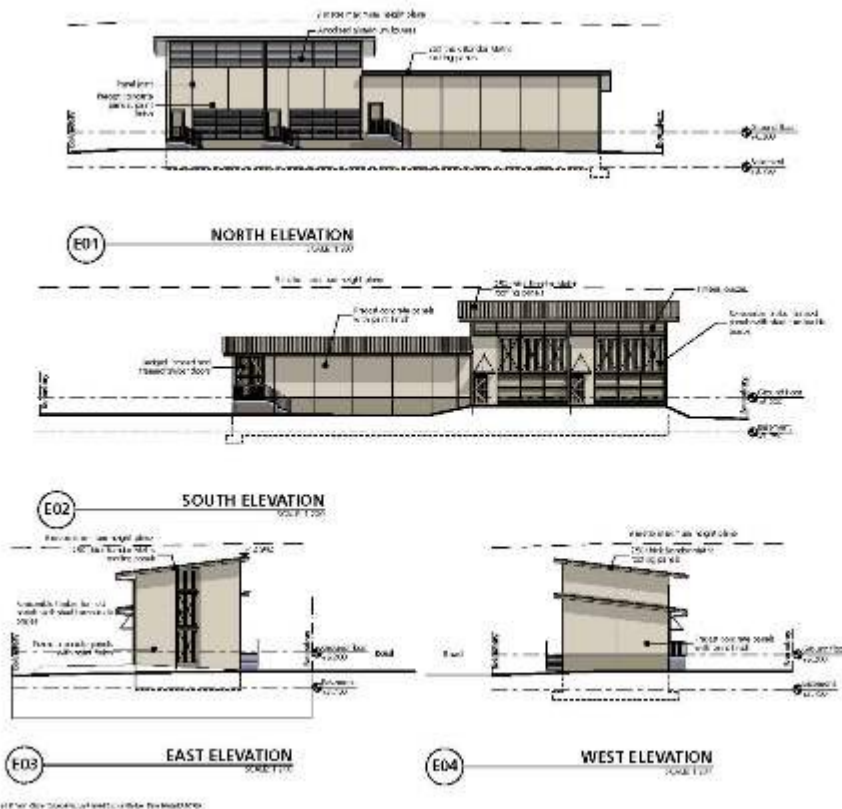
Attachments

Site Plan



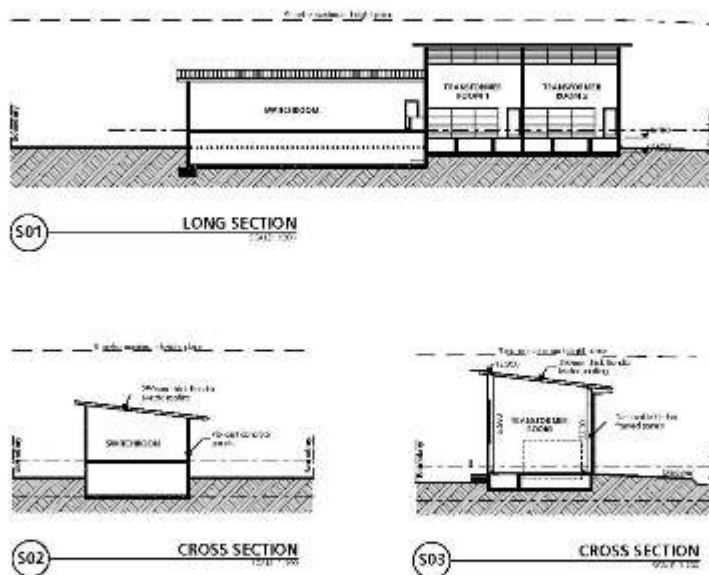
Building Elevations

The Proposed Auckland Unitary Plan (notified 30 September 2013)



CONSULTANT CIVIL ENGINEERING ELECTRICAL ENGINEERING MECHANICAL ENGINEERING PLUMBING SANITARY ENGINEERING
KAREKA KAREKA SUBSISTANCE Wylie & Co.
SECTOR
01/01/2013 ELEVATION
401
Date:

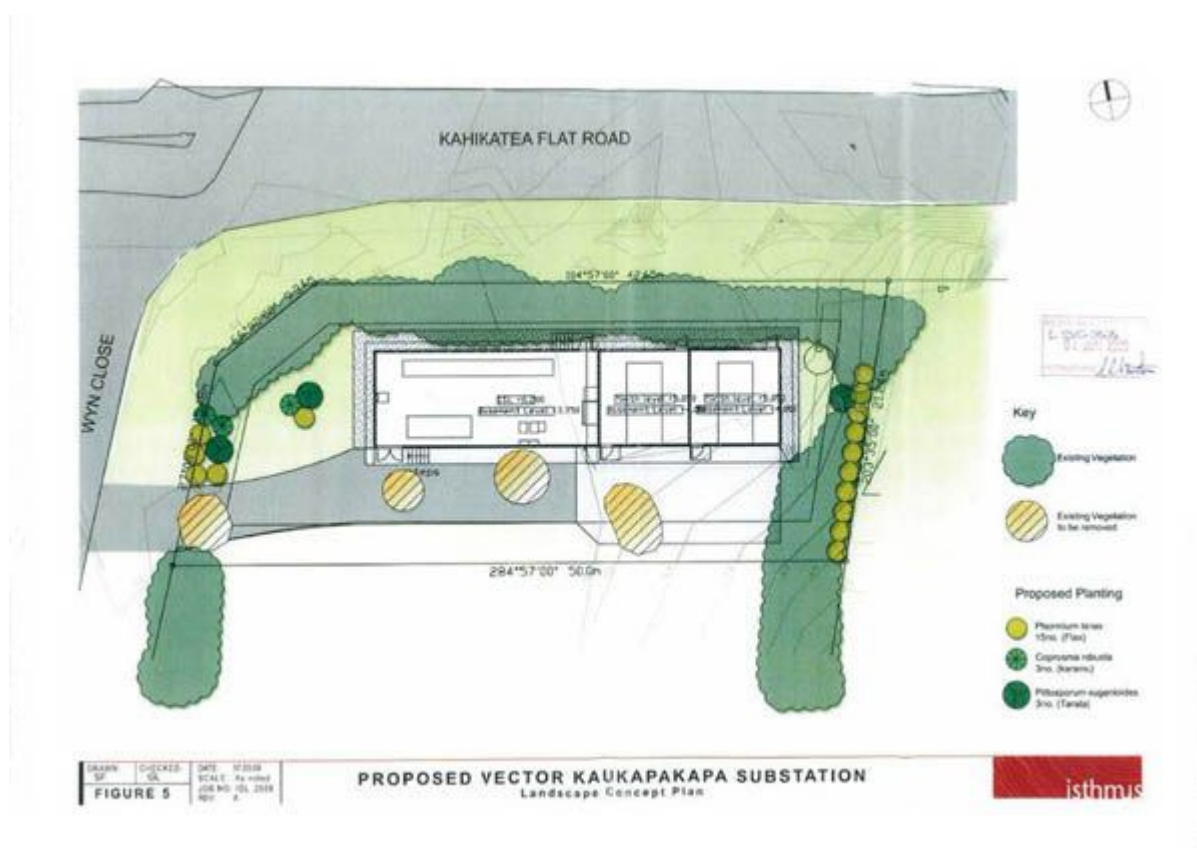
Building Sections



CONSULTANT CIVIL ENGINEERING ELECTRICAL ENGINEERING MECHANICAL ENGINEERING PLUMBING SANITARY ENGINEERING
KAREKA KAREKA SUBSISTANCE Wylie & Co.
SECTOR
01/01/2013 SECTION
402
Date:

Landscape Concept Plan

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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	29 July 2021 or five years from being operative in the Unitary Plan, whichever is the latter 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 Konstrukt 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 District

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Plan, an outline plan shall be submitted in accordance with section 176A of the Resource Management Act 1991 to the Rodney District 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 District 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 if 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;
- e. Further details of the drainage design for the driveway should be provided by the applicant, including culvert size and end treatment; and
- f. 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,

The Proposed Auckland Unitary Plan (notified 30 September 2013)

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

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

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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.

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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
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The Proposed Auckland Unitary Plan (notified 30 September 2013)

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 Section) 2005
Lapse Date	Given effect to (i.e. no lapse date)

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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

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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

The Proposed Auckland Unitary Plan (notified 30 September 2013)

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)

Purpose

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

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

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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)

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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.

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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

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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	Ten years from being operative in the Unitary Plan unless given effect to prior

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

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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	Ten years from being operative in the Unitary Plan unless given effect to prior

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

4. Table 16.9.2.1.2(i): Noise Received in Rural Zones (Leq) of the Auckland Council District Plan (Rodney Section) 2011.

Noise Limits dBA Leq

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Within the Notional boundary ¹	Mon-Sat 6.00am-6.00pm	Sundays and Public Holidays 6:00am-6:00pm	Sundays and Public Holidays 7:00am-10:00pm
Low background noise level ²	50 dBA	45 dBA	40 dBA and 70 dBA Lmax
High background noise level ³	50 dBA	50 dBA	45 and 75 dBA Lmax

Notes:

1. For the purposes of this Rule the notional boundary is a line 20m from the side of a building used for residential purposes, or used as a childcare facility for not more than 10 children, or the legal boundary where this is closer to the building used for residential purposes or used as a childcare facility for not more than 10 children.
2. Group A background noise level sites include all those not specified as Group B.
3. Group B background noise level sites are those located adjacent to Retail Service, Mixed Use and Industrial Zones, or where the site is located within 70m of any Strategic Route, Regional Arterial Road, Future Arterial Road or District Arterial Road.

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

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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

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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

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Drive and Laurie Southwick Parade.

Operational Noise

4. Table 16.9.2.1.1: Noise in Residential Zones (Leq) of the Auckland Council District Plan (Rodney Section) 2011.

	Noise Limits dBA Leq			
	Mon-Sat 7.00am- 7.00pm	Mon-Sat 7.00am- 10.00pm	Sundays and Public Holidays 7:00am-10:00pm	At all other times
Low background noise level ¹	45 dBA	40 dBA	40 dBA	35 dBA 50 dB @ 63 Hz 45 dB @ 125 Hz 70 dBA L(max)
High background noise level ²	50 dBA	45 dBA	45 dBA	40 dBA 55 dB @ 63Hz 50 dB @ 125Hz 75 dBA L(max)

Notes:

1. Low background noise level sites include all those not specified as having a high background noise level.
 2. High background noise level sites are those having a common boundary with Retail Service, Mixed Business and Industrial Zones, or where the site is located within 70m of any Strategic Route, Regional Arterial Road, Future Arterial Road or District Arterial Road.

(b) When measured noise levels are assessed against the limits of Table 16.9.2.1.1, no adjustment shall be made for tonality as referred to in NZS 6802:1999 Appendix A.A6.2.

Attachments

No attachments.

8898 Helensville Substation

Designation Number	8898
Requiring Authority	Vector Ltd
Location	139-143 Awaroa Road and 52-56 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.

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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

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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 C06-05, Auckland City Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

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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 81, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Five years from being operative in the Unitary Plan unless given effect to prior

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

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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 Auckland Council District Plan (North Shore Section) 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 – Northern Resource Consenting and Compliance (Takapuna Service Centre) unless the works are permitted under the provisions of the Auckland Council District Plan (North Shore Section).

3. Noise

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

At the boundary of any other site	At all times	70dBA L _{eq}
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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 Northern Office 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.

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Attachments

No attachments.

R8906 Hillsborough Substation

Designation Number	R8906
Requiring Authority	Vector Ltd
Location	105 Hillsborough Road, Hillborough
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.
5. The substation will comply with the following noise controls:

At the boundary of any Residential Zoned Site	At all times	L _{eq} 45dBA
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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.

R8907 Nicholas Street Substation

Designation Number	R8906
Requiring Authority	Vector Ltd
Location	10 Nicholas Street, Auckland Central
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	10 years from being operative in the Unitary Plan unless given effect to prior

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Purpose

Electricity works (substation).

Conditions

1. The substation equipment is to be fully enclosed within a building.
2. The substation will comply with the following noise controls:

At 1m from the façade of any adjacent occupied building.	At all times	Leq 60dBA
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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.

R8908 Waitakere Substation

Designation Number	R8908
Requiring Authority	Vector Ltd
Location	3 Bethells Road, Waitakere Village
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	10 years from being operative in the Unitary Plan unless given effect to prior

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.
4. The substation will comply with the following noise controls at the boundary of other adjoining sites at all times:

At the boundary of any other Working Environment Zoned Site	At all times	Leq 65dBA
At the boundary of any Residential Zoned Site	At all times	Leq 45dBA

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- 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.
- 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.
- 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.
- Appropriate sediment and erosion control measures shall be employed for any earthworks on the site.

Attachments

No attachments.

R8909 Warkworth Substation

Designation Number	R8909
Requiring Authority	Vector Ltd
Location	5 Glenmore Drive, Warkworth
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	10 years from being operative in the Unitary Plan unless given effect to prior

Purpose

Electricity works (substation).

Conditions

- The substation equipment is to be fully enclosed within a building.
- The substation building will have a minimum set-back from the rear boundary of 6m.
- The maximum height of the substation building will be 8.5m.
- The substation will comply with the following noise controls at the boundary of other adjoining sites at all times:

At the boundary of any other Working Environment Zoned Site	At all times	Leq 65dBA
At the boundary of any Residential Zoned Site	At all times	Leq 45dBA

- 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.

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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.

R8910 Westgate Substation

Designation Number	R8910
Requiring Authority	Vector Ltd
Location	1 Westgate Drive, Westgate
Rollover Designation	No
Legacy Reference	N/A
Lapse Date	10 years from being operative in the Unitary Plan unless given effect to prior

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 will comply with the following noise controls:

At the boundary of any other site	At all times	Leq 65dBA
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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.

R8911 Clevedon Substation

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Designation Number	R89011
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.