

Vector Ltd

Designation Schedule - Vector Ltd

Number	Description	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)	37 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	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 substation purposes.	21-29 Liverpool Street, Auckland Central
8841	Electricity transmission	19 Gavin Street, Ellerslie to 13-21 Hobson Street, Central Auckland
8842	110kV underground electricity transmission line	410 Albany Highway to State Highway 1 (Constellation Drive), Rosedale and Currys Lane, Wairau Valley
8843	Substation	375 Glenvar Road, Torbay
8844	Electricity supply purposes - substation	135 McLeod Road, Te Atatu South
8845	Electricity supply purposes - substation	8 Woodford Avenue, Henderson
8846	Electricity supply purposes - substation	14 Titirangi Road, New Lynn
8847	Electricity supply purposes - substation	6 Clinker Place, New Lynn
8848	Electricity supply purposes - substation	15 Waikaukau Road, Glen Eden
8849	Electricity supply purposes - substation	140-142 Henderson Valley Road, Henderson
8850	Electricity supply purposes - Henderson Branch Depot	45-49 Keeling Road, Henderson
8851	Electricity supply purposes - substation	515 South Titirangi Road, Titirangi
8852	Electricity supply purposes - substation	647 West Coast Road, Oratia
8853	Electricity supply purposes - substation	37 Don Buck Road, Massey
8854	Electricity supply purposes - substation	44-50 Sabulite Road, Kelston
8855	Electricity supply purposes - substation	28 Royal View Road, Te Atatu
8856	Electricity supply purposes - substation	1 Trig Road, Whenuapai

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8857	Electricity supply purposes - substation	606 Swanson Road, Swanson
8858	Electricity supply purposes - substation	173-183 Triangle Road, Massey
8859	Electricity supply purposes - substation	86 Atkinson Road, Titirangi
8860	Electricity supply purposes - substation	171 Simpson Road, Henderson
8861	Electricity supply purposes - substation	449 Huia Road, Laingholm
8862	Electrical works (substation).	496 Airfield Road, Ardmore
8863	Electrical works (substation).	6 Smiths Avenue, Papakura
8864	Substation	32A Red Beach Road, Red Beach
8865	Substation	1 Wyn Close, Kaukapakapa
8866	Substation	2 Mahurangi East Road, Snells Beach
8867	Substation	1 Don McKinnon Drive, Albany
8868	Substation	179 Bush Road, Rosedale
8869	Substation	59 Andersons Road, Albany
8870	Substation	161-167 Bayswater Avenue, Takapuna
8871	Substation	82A Eskdale, Birkenhead
8872	Substation	5A Balmain Road, Birkenhead
8873	Electrical works (substation)	16-18 Plumer Street, Auckland Central
8874	Electrical works (substation)	13-21 Hobson Street, Auckland Central
8875	Substation	497 East Coast Road, Mairangi Bay
8876	Substation	27 James Street, Glenfield
8877	Substation	220 Kyle Road, Greenhithe
8878	Substation	1B Jutland Road, Takapuna
8879	Substation	18 Highbury Bypass, Birkenhead
8880	Substation	2B East Coast Road, Milford
8881	Substation	51 Lake Road, Northcote
8882	Substation	228 Sunset Road, Mairangi Bay
8883	Substation	33 and 35 Northcote Road, Northcote
8884	Substation	40A Glenvar Road, Torbay
8885	Substation	4A Wairau Road, Takapuna
8886	Substation	53 Carlisle Road, Browns Bay
8887	Substation	248A East Coast Road, Forrest Hill
8888	Substation	29 Huron Street, Takapuna
8889	Substation	Pakiri Block Road (adjoins 113), Tomarata
8890	Substation	1423 State Highway 1, Wellsford

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8891	Substation	Leigh Road (adjoins No. 937), Big Omaha
8892	Substation	Matakana Road (near Golf Road), Warkworth
8893	Substation	23 Dawson Road, Snells Beach
8894	Substation	140 West Hoe Road, Orewa
8895	Substation	East Coast Road (near Spur Road), Silverdale
8896	Substation	42-44 Homestead Road, Whangaparaoa
8897	Substation	91 Gulf Harbour Drive, Hobbs Bay
8898	Substation	52-56 Awaroa and 139-143 Rautawhiri Roads, Helensville
8899	Substation	Horseshoe Bush Road (adjoins No. 223), Dairy Flat
8900	Substation	Glenmore Road (nears State Highway 17 Coatesville Riverhead Highway), Coatesville
8901	Substation	1 Factory Road, Waimauku
8902	Substation	Riverhead Road (adjoins No. 301), Riverhead
8903	Electrical works (substation).	99 Lincoln Street, Ponsonby
8904	Communications hut (radio)	505 and 509A State Highway 17 Dairy Flat Highway, Lucas Heights

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8801 Pakuranga Substation

Designation Number	8801
Requiring Authority	Vector Ltd

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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)

Description

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)

Description

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

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

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8804 Mangere East Substation

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

Description

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

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8806 South Howick Substation

Designation Number	8806
Requiring Authority	Vector Ltd
Location	37 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)

Description

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)

Description

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)

Description

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)

Description

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8811 Howick Substation

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

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8812 Mangere Central Substation

Designation Number	8812
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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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8813 Newmarket Substation

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

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8814 Rosebank Substation

Designation Number	8814
Requiring Authority	Vector Ltd
Location	355 Rosebank Road, Avondale

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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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8815 Mt Albert Substation

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

Description

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

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Legacy Reference	Designation E12-05, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

Description

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8818 Freemans Bay Substation

Designation Number	8818
Requiring Authority	Vector Ltd
Location	98 Franklin Road, Freemans Bay
Rollover Designation	Yes
Legacy Reference	Designation B07-35, Auckland Council District Plan (Isthmus Section) 1999

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

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8820 Parnell Substation

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

Description

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8822 St Heliers Substation

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

Description

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8824 Kingsland Substation

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

Description

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)

Description

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)

Description

Electricity works (substation).

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)

Description

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8829 McNab Substation

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

Description

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8831 Penrose Portal

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Designation Number	8831
Requiring Authority	Vector Ltd
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)

Description

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.

1.3 The term for implementation of this designation shall be 12 years from the inclusion of the designation in the District Plan, in accordance with Section 184 of the Resource Management Act 1991.

1.3.1 Unless lapsed prior to 15 June 2010, the expiry date of this designation was extended to 1 November 2015, by S78 of the Local Government (Auckland Transitional Provisions) Act 2010.

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: City 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.

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: City Planning 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.

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

b. Noise measured at any time at or within the boundary of any property zoned business activity: L10 65 dBA.

2.5 Measurement and assessment shall be in accordance with the requirements of NZS 6801:1991 "Measurement of Sound" and NZS 6802:1991 "Assessment of Environmental Sound". 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: City Planning.

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: City Planning, 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: City Planning, 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: City Planning prior to the commencement of work.

3.9 The requirement for monitoring and recording may be relaxed at the discretion of Manager: City Planning after Vector has provided written evidence of consultation by Vector with Trans 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.
- 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 St traffic of slow trucks merging shall be installed to the satisfaction of Council's Manager: Traffic and Parking Services.

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

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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.

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: City Planning.

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: City Planning, 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.

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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: City Planning.

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: City Planning, 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: City Planning, 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: City Planning. 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: City Planning in writing when his/her attendance is no longer required.

7.3 The extension to the Liverpool St substation shall comply with the bulk and location requirements applying in the Commercial 8B zone of the Auckland Council District Plan (Isthmus Section) 1999, and any development controls under any relevant District Plan.

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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 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: City Planning.

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.

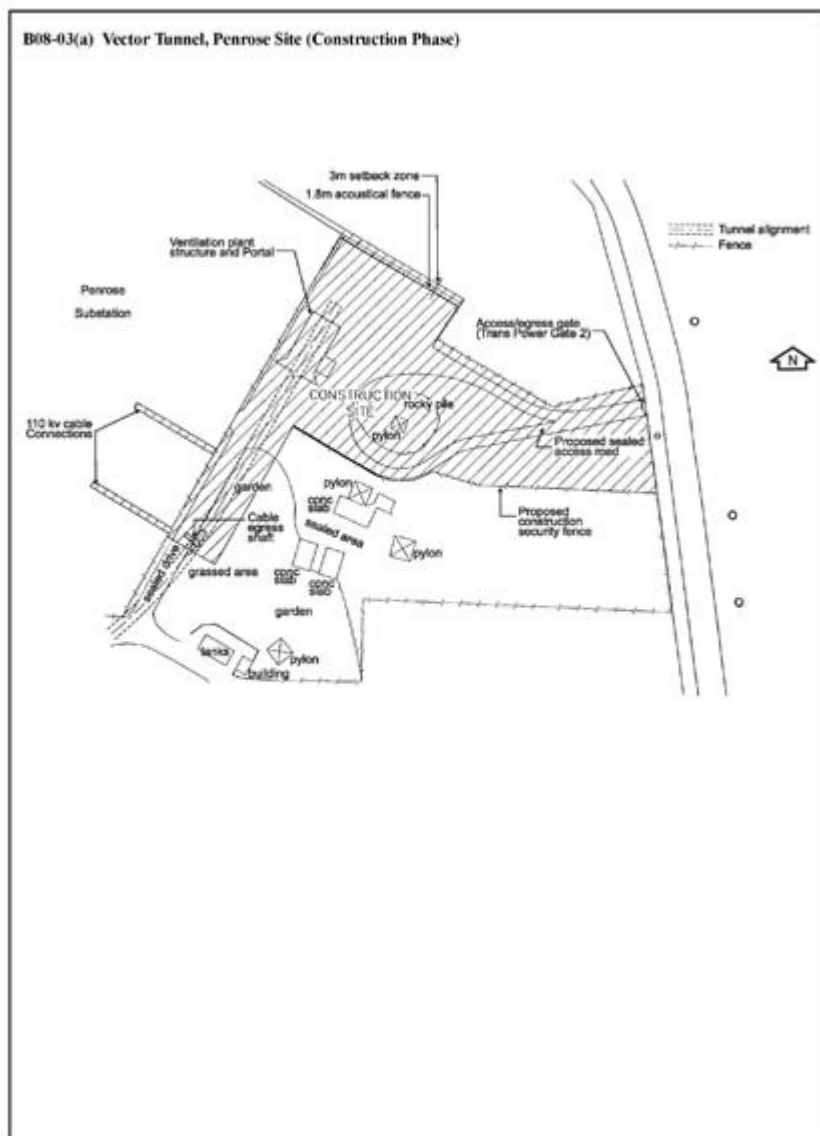
Advice Notes

a. 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.

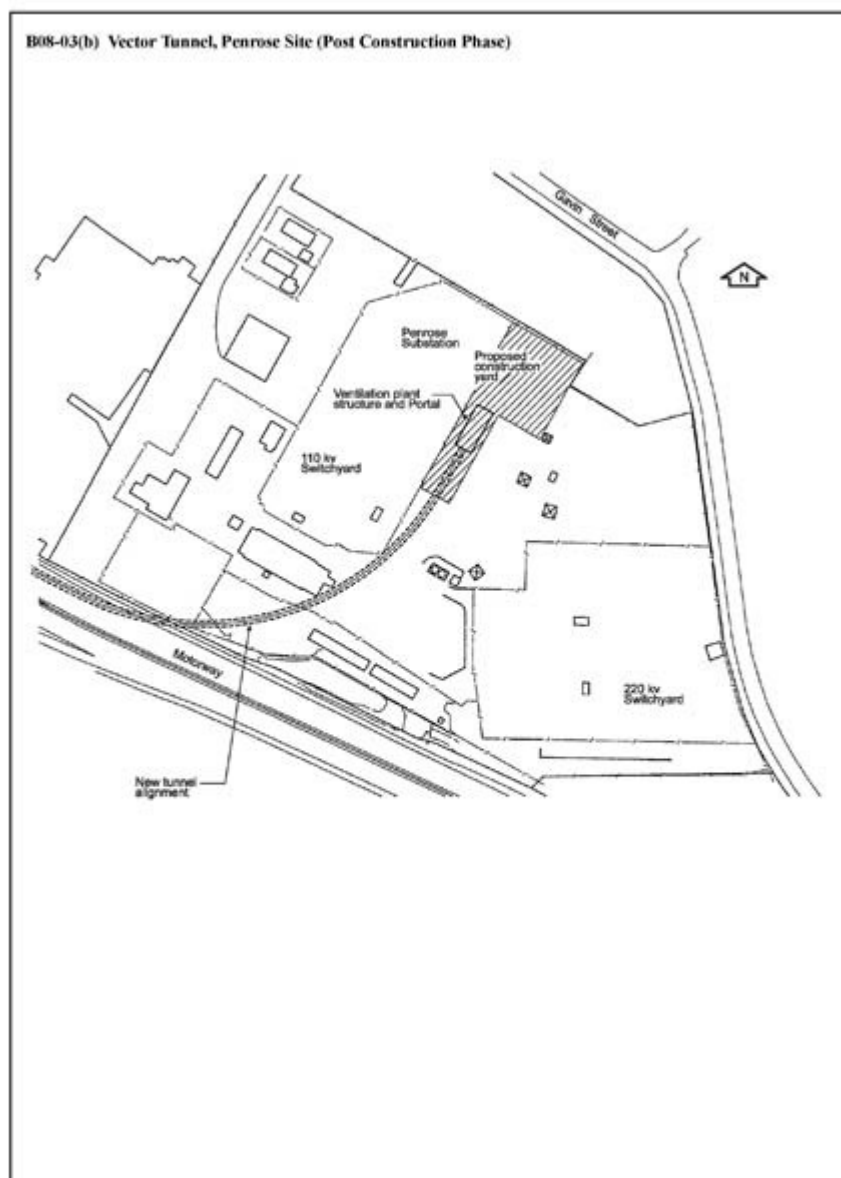
b. The Penrose substation site is subject to an existing Transpower designation (Penrose Substation) and an existing Council designation (Proposed Accessway, Gavin St to McNab St Subway). As such the Vector designation is to be identified as the later designation in the District Plan. The provisions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

Attachments

Attachment 1: B08-03(a) Vector Tunnel, Penrose Site (Construction Phase)



Attachment 2: B08-03(b) Vector Tunnel, Penrose Site (Post Construction Phase)



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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8833 White Swan Substation

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

Description

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8835 Onehunga Substation

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

Description

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)

Description

Electricity works (substation).

Conditions

No conditions.

Attachments

No attachments.

8837 Westfield Substation

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

Description

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)

Description

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)

Description

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)

Description

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 Designation B08-03, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	Given effect to (i.e. no lapse date)

Description

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

The construction, operation and maintenance of:

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

Conditions

1. General

1.1 Except as modified by the conditions below, the work shall be undertaken in general accordance with the information provided by Vector at the hearing; the notice of requirement and supporting documents, namely: "Electricity Reinforcement Project, Tunnel to Auckland Central Business District, Assessment of Environmental Effects", February 1996, Tonkin and Taylor Ltd, and the associated Addendum dated 8 March 1996.

1.2 All activities, works and buildings not able to be fully disclosed in the notice of requirement (including the associated Assessment of Effects) and not provided for as a permitted activity shall be the subject of either:

- a. A new notice of requirement, which shall be publicly notified, pursuant to Section 168 of the Resource Management Act; or
- b. A notice to alter the designation, pursuant to section 181 of the Resource Management Act, which notice shall be publicly notified unless the alteration is minor and the affected persons agree in accordance with the provisions of Section 181(3) of the Act; or
- c. A resource consent.

1.3 The term for implementation of this designation shall be 12 years from the inclusion of the designation in the District Plan, in accordance with Section 184 of the Resource Management Act 1991.

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1.3.1 Unless lapsed prior to 15 June 2010, the expiry date of this designation was extended to 1 November 2015, by S78 of the Local Government (Auckland Transitional Provisions) Act 2010.

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: City 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.

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: City Planning 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.

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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 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

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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.

2.5 Measurement and assessment shall be in accordance with the requirements of NZS 6801:1991 "Measurement of Sound" and NZS 6802:1991 "Assessment of Environmental Sound". 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:

- Occupants of buildings within 100m of the blast site; and
- The Manager: City Planning.

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: City Planning, 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: City Planning, 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: City Planning prior to the commencement of work.

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

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 St traffic of slow trucks merging shall be installed to the satisfaction of Council's Manager: Traffic and Parking Services.

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,

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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.

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: City Planning.

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: City Planning, 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.

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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: City Planning.

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: City Planning, 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: City Planning, 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: City Planning. 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: City Planning in writing when his/her attendance is no longer required.

7.3 The extension to the Liverpool St substation shall comply with the bulk and location requirements applying in the Commercial 8B zone of the Auckland Council District Plan (Isthmus Section) 1999, and any development controls under any relevant District Plan.

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 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: City Planning.

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

a. 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.

b. 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

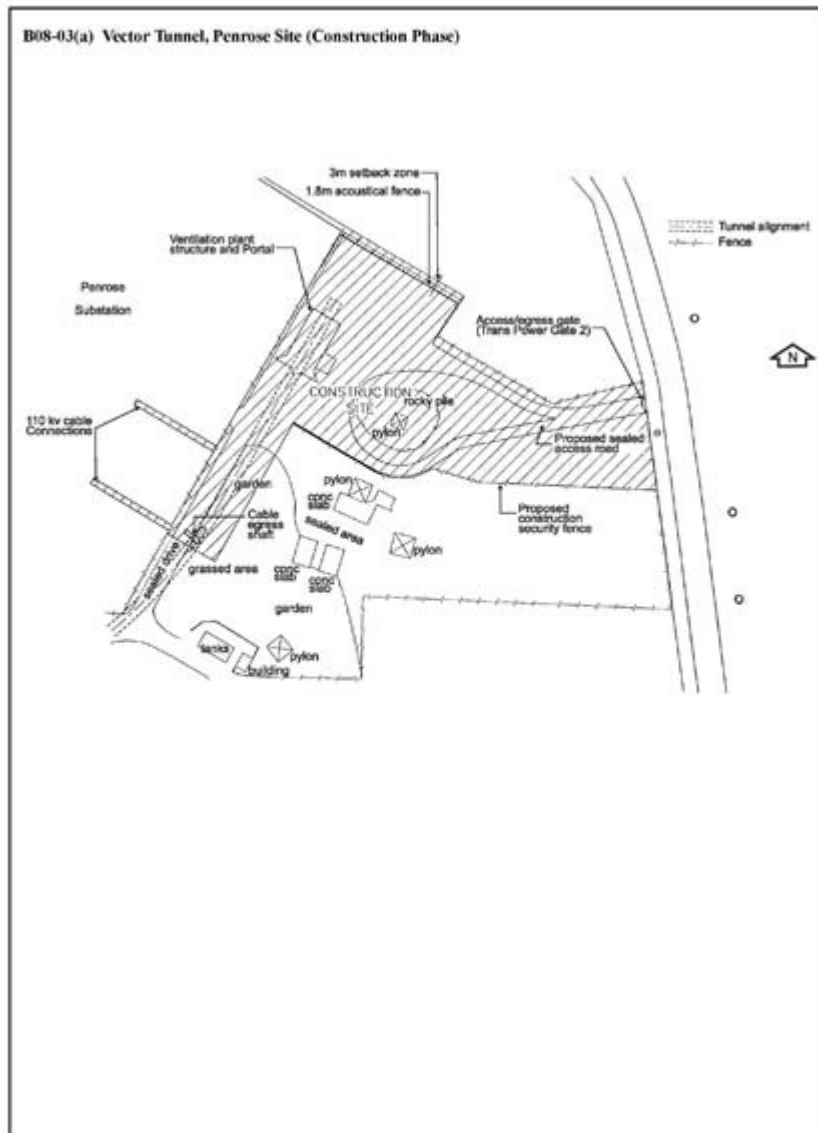
Attachment 1: B08-03(a) Vector Tunnel, Penrose Site (Construction Phase)

Attachment 2: B08-03(b) Vector Tunnel, Penrose Site (Post Construction Phase)

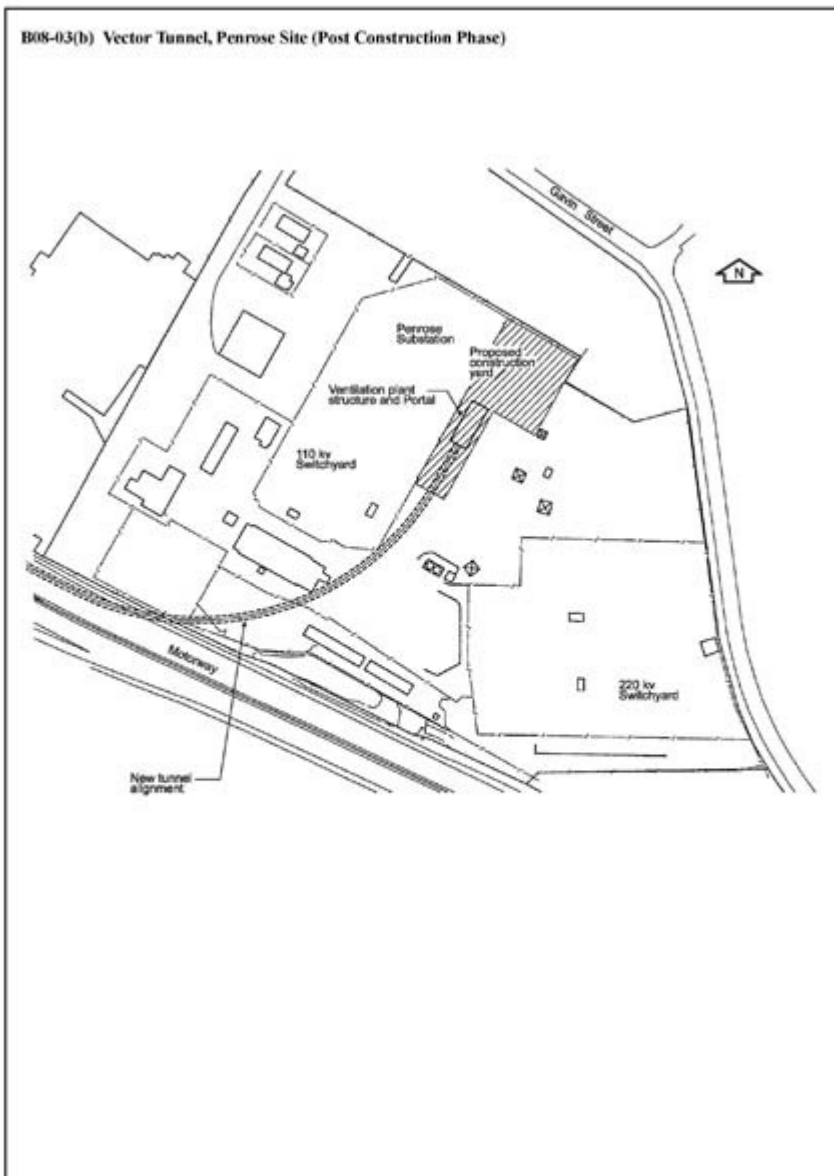
Attachment 3: B08-03(c) Vector Tunnel, Truck Routes for Newmarket Portal (based on Fig.6 Pg 16, Assessment of Effects on the Environment: Traffic, January 1996, Traffic Design Group)

Attachment 4: B08-03(d) Vector Tunnel, Road Improvements, Fanshawe Street (based on sketch plan 2289/2 by Traffic Design Group)

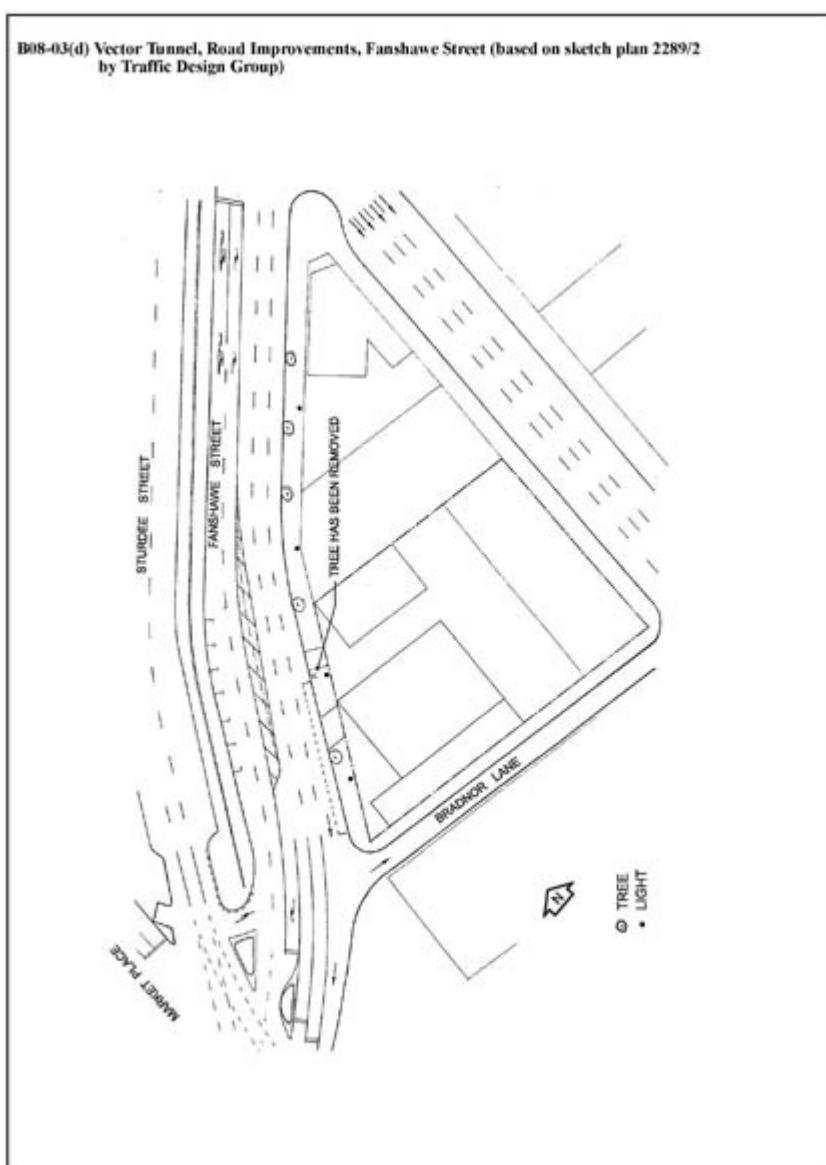
Attachment 1: B08-03(a) Vector Tunnel, Penrose Site (Construction Phase)



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Attachment 3: B08-03(c) Vector Tunnel, Truck Routes for Newmarket Portal (based on Fig.6 Pg 16, Assessment of Effects on the Environment: Traffic, January 1996, Traffic Design Group)



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)

Description

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

associated therewith, within a corridor.

Conditions

1. The alignment and width of the North Shore Transmission Corridor shall be generally in accordance with that described in Appendix A to the 2001 Notice of Requirement as amended by the 2005 Alteration to the Designation (LUC/2120374) and the 2012 Alteration to the Designation and shall be demarcated on the District Plan Maps accordingly.
2. That prior to any works being commenced, Vector Limited shall obtain all requisite resource consents required by the Auckland Regional 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 the Manager, North Shore Wastewater Treatment Plant 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 the North Shore City 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 Water Services 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 in accordance with North Shore City Council's Infrastructure Design Standards; 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 the General Manager, Water Services.

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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.

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. All activities associated with the design and construction of the cable shall comply with North Shore City Council Infrastructure Design Standards and 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 Manager, North Shore City Council Parks and Environments 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 North Shore City Council Parks and Environment 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 North Shore City Council Parks and Environment 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 Parks and Environments 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 the Manager North Shore Wastewater Treatment Plant and the General Manager Infrastructure 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.

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 Stormwater Department 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 Manager of Traffic and Roading, NSCC 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 Traffic Management Plan approved by the Manager of Traffic and Roading. The primary purpose of the Traffic Management Plan is to set out the mitigation measures that will be put in place for that phase of the project to ensure that traffic disruption associated with construction activities is minimised as far as it is practicable.

Dust

20. Best practicable measures shall be employed (e.g. watering of the construction area) to ensure any dust nuisance beyond the boundary of the corridor is minimised.

21. All spoil shall be removed from the site so that no spoil or construction materials likely to generate dust are stored or stockpiled on site.

Water Quality

22. Best practicable measures shall be employed to ensure that the discharge of sediment into any water body is avoided or minimised.

23. Excess material shall be placed directly into trucks or bins for removal off site thereby minimising the amount of loose sediment bearing materials on the site.

24. Cesspit filters shall be installed prior to the excavations commencing where there is a risk of runoff to an existing drainage network. This is to be augmented by the use of silt fences where these are able to be installed or are necessary. It is anticipated that silt fences will be primarily used in areas where the works pass close to an open watercourse.

25. Should the excavation require dewatering, then the contractor shall be expected to either discharge the liquids into another part of the trench (e.g. with scoria backfilling) via a portable settling tank, or across a grassed strip (provided the grass was long and a silt fence or cesspit filter was in place down gradient).

26. Backfilling, compaction and grading shall be undertaken as soon as possible after the laying of trenches,

followed by re-sowing to re-instate surfaces to a condition which existed before the trenching.

Distance from Residential Boundaries

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

Hours of Work

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

Property Access

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

Construction Noise

30. During construction, New Zealand Noise Standard 6803 NZS: 1999 Acoustics - Construction Noise shall be complied with.

31. Vector Limited and its contractors shall, in addition to complying with all other construction related conditions, take all reasonable steps to prevent or mitigate any nuisance or damage to adjacent properties during construction.

Archaeological

32. If any archaeological remains are uncovered during construction, Vector Limited shall immediately notify the Council and engage an archaeologist (to be approved by Council) to investigate and report on the importance of the remains.

33. Vector Limited shall immediately advise local kaumatua and the New Zealand Historic Places Trust and cease working in the affected area until all necessary authority required by the New Zealand Historic Places Trust is obtained.

Completion of Construction

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

Monitoring

35. Within six (6) months of the commencement of operation of the 110kV underground line Vector Limited shall supply to Council's Manager of Environmental Policy and Planning 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 North Shore City's Manager of Infrastructure Services.

Attachments

No attachments.

8843 Glenvar Substation

Designation Number	8843
Requiring Authority	Vector Ltd
Location	375 Glenvar Road, Torbay
Rollover Designation	Yes
Legacy Reference	Designation 707, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	14 August 2019

Description

Substation.

Conditions

No conditions (note: the rollover notice refers to the Auckland Council District Plan (North Shore Section) 2002 Plan but there are none).

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)

Description

Electricity supply purposes - 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

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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.

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional 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)

Description

Electricity supply purposes - 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

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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.

Explanation

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Note that major earthworks may require a consent from the Regional Council.

Attachments

No attachments.

8846 New Lynn Substation

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

Description

Electricity supply purposes - 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 statement on the relevant Plan objectives, policies and rules; and
- 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.

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional 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)

Description

Electricity supply purposes - 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 statement on the relevant Plan objectives, policies and rules; and
- 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.

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan.

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An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional 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)

Description

Electricity supply purposes - 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

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Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional 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)

Description

Electricity supply purposes - 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.

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional Council.

Attachments

No attachments.

8850 Keeling Road Substation

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

Description

Electricity supply purposes - Henderson branch depot.

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.

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional Council.

Attachments

No attachments.

8851 Titirangi Substation

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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

Description

Electricity supply purposes - 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

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

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional Council.

Attachments

No attachments.

8852 Oratia Substation

Designation Number	8852
Requiring Authority	Vector Ltd

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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)

Description

Electricity supply purposes - 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.

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional Council.

Attachments

No attachments.

8853 Ranui Substation

Designation Number	8853
Requiring Authority	Vector Ltd
Location	37 Don Buck Road, Massey
Rollover Designation	Yes

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Legacy Reference	Designation V18, Auckland Council District Plan (Waitakere Section) 2003
Lapse Date	Given effect to (i.e. no lapse date)

Description

Electricity supply purposes - substations.

Conditions

Conditions specific to V18

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

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional Council.

Advice Note

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.

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)

Description

Electricity supply purposes - 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

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Explanation

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Note that major earthworks may require a consent from the Regional Council.

Attachments

No attachments.

8855 Te Atatu Substation

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

Description

Electricity supply purposes - substation.

Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:

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- 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

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Explanation

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Note that major earthworks may require a consent from the Regional 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)

Description

Electricity supply purposes - substation.

Conditions

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 - 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

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Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional 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)

Description

Electricity supply purposes - substation.

Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:

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- A statement on any adverse effects the works will have on the environment and the mitigation measures to be carried out.

Explanation

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

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional 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)

Description

Electricity supply purposes - substation.

Conditions

1. To ensure that section 176A 3(f) of the Act has been adequately addressed, an outline plan shall include, as appropriate:
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Explanation

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Note that major earthworks may require a consent from the Regional Council.

Attachments

No attachments.

8859 Atkinson Road Substation

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

Description

Electricity supply purposes - 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
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Explanation

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Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional 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)

Description

Electricity supply purposes - 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
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Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional 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 supply purposes - 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.

Explanation

For all earthworks, reference should be made to theorising and Sediment Control Appendix of the District Plan. An outline plan or works shall generally be required in respect of earthworks only where the extent of earthworks exceed the thresholds specified in the underlying provisions of the District Plan. The outline plan shall detail the erosion and sediment control measures to be undertaken.

Note that major earthworks may require a consent from the Regional Council.

Attachments

No attachments.

8862 Takanini Substation

Designation Number	8862
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Requiring Authority	Vector Ltd
Location	496 Airfield 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)

Description

Electrical 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)

Description

Electrical works (substation).

Conditions

No conditions.

Attachments

No attachments.

8864 Red Beach Substation

Designation Number	8864
Requiring Authority	Vector Ltd
Location	32A Red Beach Road, Red Beach
Rollover Designation	Yes

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Legacy Reference	Designation 615, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

Description

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

Substation.

Conditions

General

1. The activity shall proceed in general accordance with the Notice of Requirement submitted to Council dated March 2009 and plans drawn by Construkt Architects Limited numbered 202, 401 and 402 (all dated July 2009), provided that the colours shall be as set out below (or their current equivalent if those colours are no longer manufactured):

- i. Roof - Colorsteel "karaka";
- ii. Base panels, steel doors, and timber work - Resene "karaka"; and
- iii. Balance wall panels - Resene "double ash".

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

Outline Plan

2. If either the final design and layout of the substation does not reflect the design and layout submitted with the Notice of Requirement, or if there are any future additional works proposed that are not permitted by the District 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

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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 District Plan and shall thereafter be maintained for the duration of the designation.

Arborist Supervision

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

Arborist Work

6. Any alteration to vegetation on the site shall be undertaken in accordance with the report prepared by Nigel Clough of Tree Solutions dated 01 June 2009. This includes:

- a. The proposed works hereby approved shall proceed in strict accordance with the details set out in the description of works attached to this consent along with any recommendations noted.
- b. The removal of the subject vegetation shall be undertaken by a suitably qualified arborist, using currently accepted arboricultural dismantling methods and practices, in a manner so as to cause no damage to other vegetation on the site.
- c. That the trimming of the boundary vegetation shall be undertaken by a suitably qualified arborist, using currently accepted arboricultural pruning methods and standards.
- d. That the trimming of the boundary vegetation be undertaken prior to the commencement of development works on site.
- e. That no more of the canopy of boundary vegetation be removed than is necessary to accommodate the proposed substation and allow an unimpeded work space.
- f. That suitable fencing is erected around all vegetation prior to the commencement of works on the site.
- g. The protective fencing is to remain in place until the completion of works on the site.
- h. That Council is informed as to when the proposed planting works have been completed.

Stormwater

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

Fencing

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

Traffic Management Plan

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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 or similar position, 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 RDC Standards of Engineering Design and Construction
- b. A turning area of a permeable surfacing to reduce stormwater runoff shall be provided to allow vehicles to perform a 180° 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

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

Attachment 1: Proposed Vector Kaukapakapa Substation Landscape Concept Plan



8866 Sandspit Substation

Designation Number	8866
Requiring Authority	Vector Ltd
Location	2 Mahurangi East Road, Snells Beach
Rollover Designation	Yes

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Legacy Reference	Designation 617, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	29 July 2021

Description

Substation.

Conditions

No conditions.

Attachments

Attachment 1: Proposed Vector Sandspit Substation Landscape Concept Plan



8867 McKinnon Substation

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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)

Description

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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8869 Browns Bay Substation

Designation Number	8869
Requiring Authority	Vector Ltd

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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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8870 Belmont Substation

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

Description

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

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Legacy Reference	Designation 66, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8872 Balmain Substation

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

Description

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)

Description

Electrical works (substation).

Conditions

1. Development of the site shall comply with the underlying height and special height controls.

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)

Description

Electrical works (substation).

Conditions

1. Development of the site shall comply with the underlying development controls.

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)

Description

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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8877 Greenhithe Substation

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

Description

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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8879 Highbury Substation

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

Description

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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8881 Northcote Substation

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

Description

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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8883 Hillcrest Substation

Designation Number	8883
Requiring Authority	Vector Ltd
Location	33-35 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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8884 Torbay Substation

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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)

Description

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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8886 Waiake Substation

Designation Number	8886
Requiring Authority	Vector Ltd

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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)

Description

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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8888 Takapuna Substation

Designation Number	8888
Requiring Authority	Vector Ltd
Location	29 Huron Street, Takapuna
Rollover Designation	Yes

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Legacy Reference	Designation 81, Auckland Council District Plan (North Shore Section) 2002
Lapse Date	Given effect to (i.e. no lapse date)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8889 Tomarata Substation

Designation Number	8889
Requiring Authority	Vector Ltd
Location	Pakiri Block Road (adjoins No. 113), Tomarata
Rollover Designation	Yes
Legacy Reference	Designation 601, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Five years from being operative in the Unitary Plan unless given effect to prior

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8890 Wellsford Substation

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

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8891 Omaha Substation

Designation Number	8891
Requiring Authority	Vector Ltd
Location	Leigh Road (adjoins No. 937), Big Omaha
Rollover Designation	Yes
Legacy Reference	Designation 603, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Five years from being operative in the Unitary Plan unless given effect to prior

Description

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. The activity shall comply with the noise rules in Chapter 16 — General Rules of the Auckland Council District Plan (Rodney Section) 2011.

Attachments

No attachments.

8892 Warkworth Substation

Designation Number	8892
Requiring Authority	Vector Ltd
Location	Matakana Road (near Golf Road), 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)

Description

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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8894 Orewa Substation

Designation Number	8894
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Requiring Authority	Vector Ltd
Location	140 West Hoe Heights Road, 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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8895 Spur Road Substation

Designation Number	8895
Requiring Authority	Vector Ltd
Location	East Coast Road (near Spur Road), Dairy Flat
Rollover Designation	Yes
Legacy Reference	Designation 607, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8896 Manly Substation

Designation Number	8896
Requiring Authority	Vector Ltd
Location	42-44 Homestead Road, Manly
Rollover Designation	Yes

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Legacy Reference	Designation 608, Auckland Council District Plan (Rodney Section) 2011
Lapse Date	Given effect to (i.e. no lapse date)

Description

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)

Description

Substation.

Conditions

Outline Plan

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

Landscape Plan

2. An outline plan submitted to council shall include a detailed landscape plan, including an implementation and maintenance programme.

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

Operational Noise

4. The activity shall comply with the noise rules in Chapter 16 — General Rules in the Auckland Council District Plan (Rodney Section) 2011.

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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8899 Horseshoe Bush Substation

Designation Number	8899
Requiring Authority	Vector Ltd
Location	Horseshoe Bush Road (adjoins No. 223), 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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8900 Coatesville Substation

Designation Number	8900
Requiring Authority	Vector Ltd
Location	Glenmore Road (near State Highway 17 Coatesville Riverhead Highway), 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)

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8901 Waimauku Substation

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

Description

Substation.

Conditions

No conditions.

Attachments

No attachments.

8902 Riverhead Substation

Designation Number	8902
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Requiring Authority	Vector Ltd
Location	Riverhead Road (adjoins No. 301), 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)

Description

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)

Description

Electrical works (substation).

Conditions

No conditions.

Attachments

No attachments.

8904 Communications Hut (Radio)

Designation Number	8904
Requiring Authority	Vector Ltd
Location	505 and 509A State Highway 17 (Dairy Flat Highway), Lucas Heights

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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)

Description

Communications hut (radio).

Conditions

No conditions.

Attachments

No attachments.