

## **Suggested Conditions for Works in the Bed of Watercourses and Diversion of Surface Water (ARC, Cables) (Application Numbers 34372 and 34373)**

### ***General***

1. This consent authorises the activities described in the document entitled “North Island Grid Upgrade Project – Underground Transmission Cable between Pakuranga Substation and Brownhill Road”, June 2007, to be carried out in general accordance with the description in that document, except as otherwise identified in the resource consent conditions.
2. The Consent Holder shall be responsible for all contracted operations relating to the exercise of this resource consent, and shall ensure that all personnel working on the site are made aware of the conditions of this resource consent and the Construction Management Plan required under this consent, and shall ensure compliance with those conditions.
3. A copy of this resource consent shall be available to contractors undertaking the works at all times that physical works authorised by this consent are being undertaken, and shall be produced without unreasonable delay upon request from a servant or agent of the Auckland Regional Council.
4. The consent holder shall appoint a representative(s) prior to the exercise of this resource consent, that shall be the Auckland Regional Council’s principal contact person(s) in regard to matters relating to this resource consent. At least 10 days prior to the works authorised by this consent, the consent holder shall inform the Manager<sup>1</sup> of the representative’s name and how they can be contacted within the works period. Should that person(s) change during the term of this resource consent, the consent holder shall immediately inform the Manager and shall also give written notice to the Manager of the new representative’s name and how they can be contacted.

### ***Pre-Works Requirements***

5. The consent Holder shall provide designs of the specific structures, and the intended construction methodology, in sufficient detail for the size, location and likely effects to be determined, to the Manager for approval at least three months prior to the commencement of construction.
6. The Manager shall be informed in writing at least 2 weeks prior to the start date of any works authorised by the Resource Consents.
7. Prior to works commencing on site, the consent holder or their agent shall arrange and conduct a pre-construction site meeting between ARC, the consent holder, the primary contractor and a representative of Manukau City Council. If the construction is undertaken on a staged basis, a pre-construction site meeting may take place prior to each stage. ]

### ***Contents of Construction Management Plan***

8. A Construction Management Plan shall be prepared and have the purpose of ensuring that the activities within Consent Numbers 34102, 34370, 34372 and 34373, are managed in an integrated and effective manner, and in accordance with the conditions of each consent. The Construction Management Plan shall outline the Consent Holder’s intended approach to the following (as appropriate):
  - Storage and reuse of top soil;

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<sup>1</sup> Manager for the purpose of this consent means the Manager, Sediment Consents and Consents Compliance, ARC (or nominated ARC staff acting on the Manager’s behalf).

- Management and disposal of spoil;
- Silt and dust control during earthwork stages;
- Temporary activities and equipment storage in specified areas;
- Water quality management;
- Security and lighting during construction;
- Any contaminated land management procedures;
- Construction noise, dust and vibration;
- Hours of work;
- Existing network utilities protocols and guidelines;
- Cultural and archaeological protocols (including discovery protocols);
- Land stability management and water quality and sediment controls;
- Geotechnical investigation techniques and management;
- Vegetation clearance, disposal and restoration;
- Community information and liaison procedures;
- Quality Assurance/Quality Control;
- Engineering design details;
- Detailed construction methods;
- An intended construction timetable (including staging if relevant);
- Construction method for watercourse crossings;
- Traffic management and property access management;
- Contractor training;
- An outline of procedures to be followed onsite to ensure compliance with consent conditions, rules in Regional and District Plans, legislation and regulations; and
- Methodology and approval procedures for making changes to the Construction Management Plan.

9. The Construction Management Plan shall be submitted for the written approval of the Manager, acting in a technical certification capacity, following consultation with the Manukau City Council. The works authorised by this consent shall not be commenced prior to such approval of the Construction Management Plan.
10. Any changes to the Construction Management Plan shall be made in accordance with the methodology and approved procedures in that plan and shall be confirmed in writing by the consent holder following consultation with the Manager, before implementation
11. The Consent Holder shall carry out operations in general accordance with the provisions of the approved Construction Management Plan.

### ***Construction Activities***

12. The Consent Holder shall provide the Manager with an updated schedule of construction activities, completed for the previous month and intended for the following month, at the end of each month during the duration of the works.

### **Stream Work**

13. No contaminants (including but not limited to oil, petrol, diesel, hydraulic fluid) shall be released into water from equipment being used for the activity and no machinery shall be cleaned, stored, or refuelled within 10 metres of the stream.
14. Any erosion of the stream bed or banks that is attributable to the works shall be repaired by the consent holder to the satisfaction of the Manager.
15. All works affecting the stream, including tidy up on completion of the works, shall be to the satisfaction of the Manager.
16. The consent holder shall ensure that:
  - the works are undertaken in a manner that does not impede fish passage; and
  - any fish stranded as a result of the diversion are immediately placed back in the active flowing channel of the stream.
17. During the implementation of the works within the Turanga Creek, the Mangemangeroa Stream and the unnamed stream above Dunvegan Rise and below Point View Drive, the consent holder shall take all practicable steps to minimise sediment loading and increased turbidity of the watercourses, including but not limited to:
  - Implementing provisions for erosion and sediment control within the Construction Management Plan required under condition 7 above and the Erosion and Sediment Control Plan required under Consent Number 34102; and
  - Ensuring that no construction materials or debris enter the stream flow; and
  - Operating all machinery from the streambank or within bunded areas and not in flowing water; and
  - Completing all construction work in the minimum time practicable.
18. The bridge over the Turanga Creek shall be constructed and maintained to ensure that:
  - Any erosion of the stream bed or bank that is attributable to the bridge is avoided or repaired;
  - The waterway beneath the bridge remains clear of flood debris;
  - The structural integrity of the bridge remains sound; and
  - The bridge provides for the passage of fish up and down the stream.
19. If a bridge crossing is chosen for the Mangemangeroa Stream and the unnamed stream above Dunvegan Rise and below Point View Drive, then the bridge shall be constructed and maintained to ensure that:
  - Any erosion of the stream bed or bank that is attributable to the bridge is avoided or repaired;
  - The waterway beneath the bridge remains clear of flood debris;
  - The structural integrity of the bridge remains sound; and
  - The bridge provides for the passage of fish up and down the stream.

20. If culvert crossings are chosen for the Mangemangeroa Stream and the unnamed stream above Dunvegan Rise and below Point View Drive, then the culvert shall be designed and installed to provide uninterrupted fish passage upon completion.
21. Either option chosen (bridge or culvert) for the Mangemangeroa Stream and the unnamed stream above Dunvegan Rise and below Point View Drive, shall not cause flooding or increase existing levels of flooding on neighbouring private properties.
22. Either option chosen (bridge or culvert) for the Mangemangeroa Stream and the unnamed stream above Dunvegan Rise and below Point View Drive shall not cause more than a minor impediment to the passage of flood debris and shall be maintained free of flood debris during the construction period.

### ***Overall Environmental Protection***

23. Environmental protection measures shall be carried out in accordance with those generally described in Consent Application Numbers 34102, 34370, 34372 and 34373 and the Construction Management Plan required in condition 8 and the Erosion and Sediment Control Plan required under consent number 34102, and TP 90<sup>2</sup>.
24. Any resulting amendments to the environmental protection methodologies proposed in Consent Application Numbers 34102, 34370, 34372 and 34373 and the Construction Management Plan may be reviewed by ARC during the pre-construction meeting(s) specified under Condition 7 and shall be approved in accordance with the procedures set out in that Plan.

### ***Archaeological Sites***

25. The Consent Holder shall protect and manage archaeological sites in a manner consistent with the provisions of the Construction Management Plan, as follows:

#### Known Archaeological Sites

(a) All archaeological sites identified in the documentation relating to the Notices of Requirement for the North Island Grid Upgrade Project, 2008.

#### Unknown Archaeological Sites

(b) In the event of archaeological evidence being uncovered (e.g. shell, midden, hangi or oven pit depressions, defensive ditches, artefactual material or human bones), work is to cease in the vicinity of the discovery and a suitably qualified archaeologist is to be contacted so that appropriate action can be taken before work can recommence at the discovery site.

### ***Wahi Tapu***

26. Any wahi tapu that is reasonably expected to be impacted by works associated with this consent is to be addressed in accordance with the document entitled "Transpower North Island Grid Upgrade Project Draft Protocol for Dealing with Koiwi or Taonga Unearthed During Construction and the Discovery of Sites of Significance, Wahi Tapu, Heritage Sites and Archaeological Sites", or its subsequent version.

### ***Cessation of Works***

27. Should the Consent Holder cease or abandon work on-site, it shall first take adequate preventative and remedial measures to control sediment discharge or other damage including slipping, slumping or

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<sup>2</sup> ARC Technical Publication No 90, "Erosion and Sediment Control Guidelines for Land Disturbing Activities in the Auckland Region", March 1999.

erosion, and shall thereafter maintain these measures for so long as necessary. All such measures shall be of a type, and to a standard, which are to the satisfaction of the Manager.

Note: This condition does not apply to normal staging of work.

### ***Review Condition***

28. The conditions of this consent may be reviewed by the ARC pursuant to Section 128 of the Resource Management Act 1991, by the giving of notice pursuant to Section 129 of the Act, in December 2009 and every December thereafter:
- i. To deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or
  - ii. To require a consent holder to adopt the best practicable option to remove or reduce any adverse effect on the environment; or
  - iii. To deal with any other adverse effect on the environment on which the exercise of the consent may have an influence.

### **ADVICE NOTES:**

1. That the expiry of this consent is 35 years from the date of commencement of consent under section 116 of the RMA, to allow for contingencies. It is expected however that the works will be completed by December 2013.
2. The Consent Holder is advised that they will be required to pay to ARC any administrative charge fixed in accordance with Section 36(1) of the Resource Management Act 1991, or any additional charge required pursuant to Section 36(3) of the Resource Management Act 1991 in respect of this consent.
3. The Consent Holder is referred to Section 124 of the Resource Management Act 1991, which provides for the exercising of a consent while applying for a new consent for the same activity.
4. The Consent Holder is advised that, pursuant to Section 125 of the Resource Management Act 1991, this resource consent lapses on the expiry of ten years after the date of commencement of this consent unless the consent is given effect to or other criteria contained within Sections 125 are met.
5. The Auckland Regional Council has the power for its officers or agents to access the work site at all reasonable times for the purpose of carrying out inspections, surveys, investigations, tests, measurements or taking samples.