

9459 Wingate Street Pump Station

Designation Number	9459
Requiring Authority	Watercare Services Ltd
Location	43 Wingate Street, Avondale
Rollover Designation	Yes
Legacy Reference	Designation F03-15, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	15 years from when the circumstances in section 175(1) of the Resource Management Act 1991 apply

Purpose

Wastewater Purposes, Combined Sewer Overflow (CSO) Collector Sewers.

Conditions

1. Except as modified by the conditions below and subject to final design, the works shall be undertaken in general accordance with the information provided by the Requiring Authority in the Notice of Requirement dated August 2012 and supporting documents being:

a. Assessment of Effects on the Environment Part A titled "Combined Sewer Overflow Collector Sewers – Resource Consent Applications and Assessment of Effects on the Environment" prepared by Watercare / Central Interceptor Team, dated 10 August 2012, reference 60102004.

b. Assessment of Effects on the Environment Part B – Drawing Set, prepared by Watercare / Central Interceptor Team dated August 2012 (all drawings dated 26 July 2012).

c. Assessment of Effects on the Environment Part C: Technical Reports (TR) as listed below:

i. TR A: Traffic Impact Assessment, prepared by Traffic Design Group, dated 7 August 2012;

ii. TR B: Noise Impact Assessment, prepared by Marshall Day Acoustics, dated 23 July 2012;

iii. TR C: Vibration Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 27993;

iv. TR D: Ground Contamination Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 26145.401;

v. TR E: CSO Settlement Study, prepared by Tonkin & Taylor Limited, dated July 2012, reference 21645.32;

vi. TR F: Archaeological Assessment, prepared by Clough & Associates Ltd, dated August 2012;

vii. TR G: Erosion and Sediment Control Plan, prepared by SKM, dated 5 June 2012;

viii. TR H: Arboricultural Assessment, prepared by Arborlab Consultancy Services Limited, dated 30 July 2012, reference 17967.

d. Section 92 Response Report to Auckland Council, dated December 2012.

e. Section 92 Response Report to Auckland Council, cover letter dated 1 March 2013 including the following attachment:

i. "Central Interceptor Combined Sewer Overflow Works – Groundwater and surface settlement effects assessment – Technical response to Auckland Council Section 92 queries", letter from Tonkin and Taylor Limited, dated 1 March 2013.

2. As soon as practicable following completion of commissioning of the Combined Sewer Overflow Collector Sewers Project and associated works ("the Project), the Requiring Authority shall, in consultation with the Auckland Council ("the Council"):

a. review the extent of the area designated for the Project;

b. identify any areas of designated land that are no longer necessary for the ongoing operation, maintenance, renewal and protection of the wastewater infrastructure;

c. give notice to the Council in accordance with Section 182 of the Resource Management Act 1991 for the removal of those parts of the designation identified in (b) above which are not required for the long term operation and maintenance of the wastewater infrastructure; and

d. provide as-built plans to the Council.

3. A liaison person shall be appointed by the Requiring Authority for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the designation and construction work. The liaison person's name and contact details shall be advised to affected parties by the Requiring Authority. This person must be reasonably available for on-going consultation on all matters of concern to affected persons arising from the Project. If a liaison person will not be available for any reason, an alternative contact person shall be nominated to ensure that a Project contact person is available by telephone 24 hours per day seven days per week during the construction phase.

4. The designation shall lapse on the expiry of a period of 15 years after the date it is included in the District Plan in accordance with Section 184(1)(c) of the RMA, unless:

a. it is given effect to before the end of that period; or

b. the Council determines, on an application made within 3 months before the expiry of that period, that substantial progress or effort has been made towards giving effect to the designation and is continuing to be made, and fixes a longer period for the purposes of this subsection.

Outline Plan of Works

5. Except as provided for in Condition 6, the Requiring Authority shall submit an Outline Plan of Works (OPW) for the Project in accordance with Section 176A of the RMA.

6. An OPW need not be submitted if the Council has waived the requirement for an OPW in accordance with Section 176A(2)(c) of the RMA.

7. The OPW shall include the following Management Plans:

a. Construction Management Plan (CMP);

b. Traffic Management Plan (TMP);

c. Communications Plan (CP);

- d. Construction Noise and Vibration Management Plan (CNVMP); and
- e. Cultural and Archaeological Management Plan (CAMP).

Construction

8. The Requiring Authority shall prepare a Construction Management Plan (CMP) for the proposed works. The purpose of the CMP is to set out the detailed management procedures and construction methods to be undertaken in order to avoid, remedy or mitigate potential adverse effects arising from construction activities. The CMP shall be provided to the Council with the OPW.

9. The CMP required by Condition 8 above shall include specific details relating to the management of all construction activities within the site, including:

a. Details of the site or project manager and the construction liaison person identified in Condition 3, including their contact details (phone, postal address, email address);

b. An outline construction programme;

c. The proposed hours of work;

d. Measures to be adopted to maintain the land affected by the works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar construction activities;

e. Location of site infrastructure including site offices, site amenities, contractors yards site access, equipment unloading and storage areas, contractor car parking, and security;

f. Procedures for controlling sediment run-off, dust and the removal of soil, debris, demolition and construction materials (if any) from public roads or places adjacent to the work site;

g. Procedures for ensuring that residents, road users and businesses in the immediate vicinity of construction areas are given prior notice of the commencement of construction activities and are informed about the expected duration and effects of the works;

h. Means of providing for the health and safety of the general public;

i. Procedures for the management of works which directly affect or are located in close proximity to existing network utility services;

j. Procedures for responding to complaints about construction activities;

k. Procedures for the refuelling of plant and equipment;

l. A Construction Noise and Vibration Management Plan (CNVMP) containing measures to address the management of noise and vibration as identified in Conditions 11 - 21;

m. Measures for the protection of and management of trees as identified in Condition 32;

n. Measures to address Crime Prevention Through Environmental Design issues within and around the construction site;

o. Measures for dealing with archaeological remains as identified in Conditions 33 - 35.

10. The CMP shall be implemented and maintained throughout the entire construction period to manage potential adverse effects arising from construction activities to the greatest practicable extent. The CMP or any specific component of the CMP shall be updated as necessary and provided to the Council in accordance with Condition 8.

Construction Noise and Vibration

11. A Construction Noise and Vibration Management Plan (CNVMP) shall be prepared, either as part of the CMP or as a standalone plan, and shall be prepared by a suitably qualified person. The CNVMP shall be submitted to the Council with the relevant OPW to which it relates.

12. Construction noise shall be measured and assessed in accordance with NZS6803:1999 Acoustics – Construction Noise, and shall comply with the following noise limits, unless varied in accordance with Condition 15:

Time and Day	Noise Limits	
	LAeq dB	LAmx
Monday to Saturday 0730 - 1800	70	85
At all Other Times and Public Holidays	45	75

13. Construction works which exceed a level of LAeq 45dB at the most exposed receiver(s) are restricted to between 0730 to 1800 on weekdays and Saturdays, with no noisy works permitted on Sundays and Public Holidays. The CNVMP shall define which activities will comply with a limit of LAeq 45dB and can therefore be undertaken outside of these hours in compliance with Condition 28.

14. The CNVMP shall as a minimum, address the following aspects with regard to construction noise:

- a. a description of noise sources, including machinery, equipment and construction techniques to be used;
- b. predicted construction noise levels;
- c. hours of operation, including times and days when noisy construction work and blasting would occur in compliance with Condition 13;
- d. physical noise mitigation measures, including limiting the use of tonal reverse alarms during night-time works, maintenance of access roads (to ensure they are smooth), acoustic screening around the site, plant selection and maintenance procedures, and site layout;
- e. construction noise criteria for any specific areas and sensitive receivers such as schools, child care centres, medical or aged care facilities;
- f. the identification of activities and locations that will require the design of specific noise mitigation measures;
- g. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed noise management measures and any feedback received from those stakeholders, along with the noise management measures that will be adopted based on this consultation;
- h. methods for monitoring and reporting on construction noise;

- i. methods for receiving and responding to complaints about construction noise; and
- j. construction operator training procedures.

15. Where a CNVMP predicts that noise levels from a particular activity will or will likely exceed the noise limits set out in Condition 12, or where noise measurements show that compliance is not being achieved, the Requiring Authority shall prepare and submit for the approval of the Council an Activity Specific Noise Management Plan (ASNMP). The ASNMP(s) shall be submitted to the Council for review and approval at least 7 working days prior to the proposed works commencing.

Activities that exceed the limits in Condition 12 may only be undertaken subject to an approved ASNMP between Monday to Friday (inclusive) and not on Saturdays, Sundays or Public Holidays.

Works subject to the ASNMP(s) shall not commence until approval is received from the Council. If monitoring shows that levels specified in an ASNMP are being exceeded, work generating the exceedance shall stop and not recommence until further mitigation is implemented in accordance with an amended ASNMP approved by the Council.

In addition to the requirements of Condition 14, an ASNMP must:

- a. Describe the activity (including duration), plant and machinery that is expected not to comply with the noise limits in Condition 12;
- b. Describe the mitigation measures proposed to reduce the noise levels as far as practicable, including any options that have been discounted due to cost or any other reason;
- c. Provide predicted noise levels for all receivers where the noise levels will not be compliant with the limits in Condition 12, including the effect of mitigation specified in Condition 14(b) above;
- d. Provide a set of noise limits that are Activity – Specific;
- e. Describe the noise monitoring that will be undertaken to determine compliance with the Activity – Specific noise limits; and
- f. Describe any additional noise mitigation measures that may be implemented to maintain compliance with Activity Specific noise limits.

16. The CNVMP shall also describe measures adopted to meet the requirements of German Standard DIN4150-3:1999 and, as a minimum, address the following aspects with regard to construction vibration:

- a. vibration sources, including machinery, equipment and construction techniques to be used;
- b. preparation of building condition reports on 'at risk' buildings prior to, during and after completion of works, where for the purposes of this condition an 'at risk' building is one at which the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded.
- c. use of building condition surveys to determine the sensitivity of the building(s) on the adjacent sites to ground movement in terms of the Line 1-3 criteria of the DIN standard;
- d. provision for the determination of buildings that require post-condition surveys to be undertaken following commencement of blasting or piling;
- e. identification of any particularly sensitive activities in the vicinity of the proposed works (e.g. commercial activity using sensitive equipment such as radiography or mass-spectrometry), along with

details of consultation undertaken with the landowners of the sites where the sensitive activities are located and any management measures that will be adopted based on this consultation;

f. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed vibration management measures and any feedback received from those stakeholders, along with the vibration management measures that will be adopted based on this consultation;

g. methods for monitoring and reporting on construction vibration, including specification of continuous monitoring for receivers and activities where the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded or described as subject to moderate or greater risk in Table 9.1 of the report entitled Central Interceptor Project – Vibration Assessment for Combined Sewer Overflows Tonkin & Taylor Limited (July 2012); and

h. methods for receiving and responding to complaints about construction vibration.

17. Air overpressure levels from blasting shall comply with the following limits, measured and assessed in accordance with AS2187.2-2006 Explosives – Storage and Use Part 2: Use of Explosives:

a. For buildings that are not occupied for any blast event, the air overpressure limit shall be 133 dBZ L_{peak} unless agreement is reached in writing with the owner(s) (in conjunction with a building pre-condition survey) that a higher limit may apply; and

b. For buildings that are occupied for any blast event, and where there are less than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 128 dBZ L_{peak}; and

c. For buildings that are occupied for any blast event, and where there are more than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 120 dBZ L_{peak}.

Note: A blast event may comprise the detonation of one or more charges in a period not exceeding three seconds.

18. The Guideline vibration limits set out in DIN 4150-3:1999 must be complied with for all blast events and all construction activities at all buildings and infrastructure not owned by the Requiring Authority unless varied in accordance with Condition 19.

19. The Guideline vibration limits set out in DIN4150-3:1999 must not be exceeded except where the Requiring Authority can demonstrate to the satisfaction of the Council:

a. that the receiving building(s) are capable of withstanding higher levels of vibration and what the new vibration limit is. The investigation required to demonstrate this must include an assessment of the building(s) by a suitably experienced and qualified structural engineer and a full pre-condition survey; and

b. that the Requiring Authority has obtained the written agreement of the building owner(s), that a higher limit may be applied.

20. Construction works undertaken between the hours of 10pm and 7am shall at times comply with a vibration velocity limit of 0.3mms⁻¹ when measured at any part of the floor of any bedroom or habitable room of a residential dwelling. Vibration measurements to determine compliance with this limit are only required to be undertaken where a complaint is received by an occupant of any dwelling.

21. The CNVMP shall be implemented and maintained throughout the entire construction period. The CNVMP shall be updated when necessary and any updated CNVMP shall be submitted to the Council in accordance with Condition 8.

Operational Noise

22. The noise arising from any operational activities undertaken on the designated land shall not exceed the applicable noise limits set out in the Auckland Council District Plan (Auckland City Isthmus Section) or any new proposed or operative plan that has effect at the time of the works.

Traffic Management

23. A detailed Traffic Management Plan (TMP) shall be prepared for the Project, by a suitably qualified person.

24. The TMP shall describe the measures that will be taken to avoid, remedy or mitigate the traffic effects associated with construction of the Project. In particular, the TMP shall describe:

a. Traffic management measures to maintain traffic capacity or minimise the impact on traffic capacity during weekdays and weekends;

b. Methods to manage the effects of the delivery of construction material, plant and machinery;

c. Measures to maintain existing vehicle access to property where practicable, or to provide alternative access arrangements;

d. Measures to maintain pedestrian and cyclist movements and reduce the impact on mobility impaired users on roads and footpaths adjacent to the construction works. Such access shall be safe, clearly identifiable and seek to minimise significant detours;

and, where relevant:

e. Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

f. Measures to manage any potential effects on children at / around education facilities;

g. Measures to manage any potential construction traffic related effects on pedestrians and/or traffic associated with large-scale events in parks and reserves including sports activities at Avondale Racecourse;

h. Any proposed monitoring to measure the impact of the works on traffic and the impact of the traffic management measures. If safety or operational issues are evident, measures to be implemented to address these issues;

i. Measures to manage the proposed access to the site should access be unable to cater for two way traffic passing at the same time, and in particular to minimise reverse movements and blocking of the road; and

j. The availability of on-street and off-street parking if the designated site is unable to accommodate all contractor parking. This will include an assessment of available parking (if any) for contractors on street and identify measures to meet and/or reduce contractor parking demand should it be found that there is insufficient on-street parking to meet this demand.

25. The TMP shall be consistent with the New Zealand Transport Agency Code of Practice for Temporary Traffic Management that applies at the time of construction.

26. Any damage in the road corridor directly caused by heavy vehicles entering or exiting the construction site shall be repaired as soon as practicable or within a timeframe agreed with Auckland Transport.

Pedestrian Management

27. Where construction works impact on existing pedestrian or cycle ways, alternative access shall be provided. Any temporary accessways shall be designed as far as practicable in accordance with Crime Prevention Through Environmental Design principles and provide appropriate lighting and signage where necessary.

Construction Hours

28. Construction hours shall be as follows, except where work is necessary outside the specified days or hours for the purposes specified in Condition 30 below.

a. Microtunnelling and trenching activities – this work shall generally occur during normal working hours, 7 am to 6 pm, Monday to Friday and 8 am to 6 pm Saturday, except that, the Requiring Authority may undertake microtunnelling works 24 hours a day 7 days a week (or alternative extended hours) to meet construction demands, provided that construction work can be managed to meet construction traffic, noise and vibration conditions of this designation.

b. General site activities – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday.

c. Truck movements – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday, except as identified in Condition 29.

29. Truck movements are restricted from entering and exiting the site in proximity to schools and colleges between 8:15am and 9:15am and 2:45pm and 3:15pm Monday to Friday during school and college term times.

30. Purposes for which work may occur outside of the specified days or hours are:

a. where, due to unforeseen circumstances, it is necessary to complete an activity that has commenced;

b. where work is specifically required to be planned to be carried out at certain times e.g. to tie into the existing network during periods of low flow.

c. for delivery of large equipment or special deliveries required outside of normal hours due to traffic management requirements;

d. in cases of emergency;

e. for securing of the site or removing a traffic hazard; and/or

f. for any other reason specified in the CMP or TMP.

Where any work is undertaken pursuant to paragraphs (a) – (f), the Consent Holder shall, within five working days of the commencement of such work, provide a report to Council detailing how the work was authorised under those paragraphs.

Community Information and Liaison

31. The Requiring Authority shall prepare a Communications Plan (CP) for the construction phase of the Project, and submit the plan in accordance with Condition 8, setting out:

- a. the method(s) of consultation and liaison with key stakeholders and the owners/occupiers of neighbouring properties regarding the likely timing, duration and effects of works.
- b. details of prior consultation or community liaison undertaken with the parties referred to in (a) above, including outlining any measures developed with such persons or groups to manage or to mitigate any adverse effects or inconvenience that may arise; and
- c. full contact details for the person appointed to manage the public information system and be the point of contact for related enquiries.

Tree Management

32. The Requiring Authority shall provide details in the CMP as to how the potential impacts of construction on trees and vegetation will be managed. The following matters shall be included:

- a. Identification of trees to be protected, pruned, removed, or transplanted and procedures for marking these out on site.
- b. Procedures for identifying and protecting significant trees to be retained where works occur in the dripline of such trees as identified by a suitably qualified person.

Archaeology and Heritage

33. A Cultural and Archaeological Management Plan ("CAMP") shall be prepared for the Project in consultation with tangata whenua (as listed in the report referenced in Condition 1(a)) and Auckland Council. The purpose of the CAMP is to identify areas of potential cultural and archaeological significance and to establish methods, such as further archaeological investigation prior to works or monitoring by tangata whenua during works, at sites having potential archaeological and cultural significance. The CAMP shall also include the Accidental Discovery Protocol required by Condition 34.

34. Detailed protocols for the management of archaeological and waahi tapu discoveries shall be developed by the Requiring Authority in consultation with tangata whenua, the New Zealand Historic Places Trust, and Auckland Council prior to construction. These detailed protocols shall confirm the names and contact details for tangata whenua, the New Zealand Historic Places Trust and the Council to be contacted in accordance with Condition 35.

35. If any archaeological sites, including human remains are exposed during site works then the following procedures shall apply:

- a. immediately after it becomes apparent that an archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
- b. the Requiring Authority shall immediately secure the area so that any artefacts or remains are untouched; and
- c. the Requiring Authority shall notify tangata whenua, the New Zealand Historic Places Trust and the Council (and in the case of human remains, the New Zealand Police) as soon as practicable and advise those parties that an archaeological site has been exposed so that appropriate action can be

taken. Works shall not recommence in the immediate vicinity of the archaeological site until approval is obtained from the New Zealand Historic Places Trust.

Site Reinstatement

36. Prior to commencement of works on the designated land, the Requiring Authority shall prepare a Reinstatement Plan for the site, in consultation with the landowner. The plan shall include:

- a. any existing structures or features on the site to be protected during works or reinstated on completion of works;
- b. the location and design of permanent wastewater infrastructure to remain at the site including the design of lid structures and chamber covers;
- c. the location and design of permanent access to the wastewater infrastructure. As far as practicable, permanent all-weather access for heavy vehicles shall minimise areas of new impermeable surfaces. In open space areas, the use of grass cell, or similar, shall be preferred;
- d. details of proposed landscaping and planting, including implementation and maintenance programmes;
- e. details of the restoration of park infrastructure to at least the same standards and specifications as existing at the time of the works; and
- f. reinstatement of all pedestrian linkages and walkways affected by construction.

37. The Reinstatement Plan shall be designed to integrate as far as practicable with relevant park development and management plans of the Council, the Auckland Design Manual - Parkland Design Guidelines (Draft 2013) or final approved or updated version of these guidelines, and designed in accordance with Crime Prevention Through Environmental Design principles.

38. When contractors' yards or other temporary works areas are no longer required for any construction or operational purpose, site works, including site offices, storage and equipment sheds, fencing and hard stand areas shall be removed and the area reinstated in accordance with Conditions 36 and 37.

Attachments

No attachments.

9460 Waterbank Crescent Pump Station

Designation Number	9460
Requiring Authority	Watercare Services Limited
Location	11, 11A, 13 and 13A Waterbank Crescent, Waterview(part of) Waterview Reserve
Rollover Designation	Yes
Legacy Reference	Designation D04-24, Auckland Council District Plan (Auckland City Council Isthmus Section 1999)
Lapse Date	15 years from when the circumstances in section 175(1) of the Resource Management Act 1991 apply

Purpose

Wastewater Purposes, Combined Sewer Overflow (CSO) Collector Sewers, Waterview Reserve.

Conditions

General Conditions

1. Except as modified by the conditions below and subject to final design, the works shall be undertaken in general accordance with the information provided by the Requiring Authority in the Notice of Requirement dated August 2012 and supporting documents being:
 - a. Assessment of Effects on the Environment Part A titled "Combined Sewer Overflow Collector Sewers – Resource Consent Applications and Assessment of Effects on the Environment" prepared by Watercare / Central Interceptor Team, dated 10 August 2012, reference 60102004.
 - b. Assessment of Effects on the Environment Part B – Drawing Set, prepared by Watercare / Central Interceptor Team dated August 2012 (all drawings dated 26 July 2012).
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 - i. "Central Interceptor Combined Sewer Overflow Works – Groundwater and surface settlement effects assessment – Technical response to Auckland Council Section 92 queries", letter from Tonkin and Taylor Limited, dated 1 March 2013.

2. As soon as practicable following completion of commissioning of the Combined Sewer Overflow Collector Sewers Project and associated works ("the Project), the Requiring Authority shall, in consultation with the Auckland Council ("the Council"):

- a. review the extent of the area designated for the Project;
- b. identify any areas of designated land that are no longer necessary for the ongoing operation, maintenance, renewal and protection of the wastewater infrastructure;
- c. give notice to the Council in accordance with Section 182 of the Resource Management Act 1991 for the removal of those parts of the designation identified in (b) above which are not required for the long term operation and maintenance of the wastewater infrastructure; and
- d. provide as-built plans to the Council.

3. A liaison person shall be appointed by the Requiring Authority for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the designation and construction work. The liaison person's name and contact details shall be advised to affected parties by the Requiring Authority. This person must be reasonably available for on-going consultation on all matters of concern to affected persons arising from the Project. If a liaison person will not be available for any reason, an alternative contact person shall be nominated to ensure that a Project contact person is available by telephone 24 hours per day seven days per week during the construction phase.

4. The designation shall lapse on the expiry of a period of 15 years after the date it is included in the District Plan in accordance with Section 184(1)(c) of the RMA, unless:

- a. it is given effect to before the end of that period; or
- b. the Council determines, on an application made within 3 months before the expiry of that period, that substantial progress or effort has been made towards giving effect to the designation and is continuing to be made, and fixes a longer period for the purposes of this subsection.

Outline Plan of Works

5. Except as provided for in Condition 6, the Requiring Authority shall submit an Outline Plan of Works (OPW) for the Project in accordance with Section 176A of the RMA.

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- a. Construction Management Plan (CMP);
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8. The Requiring Authority shall prepare a Construction Management Plan (CMP) for the proposed works. The purpose of the CMP is to set out the detailed management procedures and construction methods to be undertaken in order to avoid, remedy or mitigate potential adverse effects arising from construction activities. The CMP shall be provided to the Council with the OPW.

9. The CMP required by Condition 8 above shall include specific details relating to the management of all construction activities within the site, including:

- a. Details of the site or project manager and the construction liaison person identified in Condition 3, including their contact details (phone, postal address, email address);
- b. An outline construction programme;
- c. The proposed hours of work;
- d. Measures to be adopted to maintain the land affected by the works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar construction activities;
- e. Location of site infrastructure including site offices, site amenities, contractors yards site access, equipment unloading and storage areas, contractor car parking, and security;
- f. Procedures for controlling sediment run-off, dust and the removal of soil, debris, demolition and construction materials (if any) from public roads or places adjacent to the work site;
- g. Procedures for ensuring that residents, road users and businesses in the immediate vicinity of construction areas are given prior notice of the commencement of construction activities and are informed about the expected duration and effects of the works;
- h. Means of providing for the health and safety of the general public;
- i. Procedures for the management of works which directly affect or are located in close proximity to existing network utility services;
- j. Procedures for responding to complaints about construction activities;
- k. Procedures for the refuelling of plant and equipment;
- l. A Construction Noise and Vibration Management Plan (CNVMP) containing measures to address the management of noise and vibration as identified in Conditions 11 - 21;
- m. Measures for the protection of and management of trees as identified in Condition 32;
- n. Measures to address Crime Prevention Through Environmental Design issues within and around the construction site;
- o. Measures for dealing with archaeological remains as identified in Conditions 33 - 35.

10. The CMP shall be implemented and maintained throughout the entire construction period to manage potential adverse effects arising from construction activities to the greatest practicable extent. The CMP or any specific component of the CMP shall be updated as necessary and provided to the Council in accordance with Condition 8.

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11. A Construction Noise and Vibration Management Plan (CNVMP) shall be prepared, either as part of the CMP or as a standalone plan, and shall be prepared by a suitably qualified person. The CNVMP shall be submitted to the Council with the relevant OPW to which it relates.

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- a. a description of noise sources, including machinery, equipment and construction techniques to be used;
- b. predicted construction noise levels;
- c. hours of operation, including times and days when noisy construction work and blasting would occur in compliance with Condition 13;
- d. physical noise mitigation measures, including limiting the use of tonal reverse alarms during night-time works, maintenance of access roads (to ensure they are smooth), acoustic screening around the site, plant selection and maintenance procedures, and site layout;
- e. construction noise criteria for any specific areas and sensitive receivers such as schools, child care centres, medical or aged care facilities;
- f. the identification of activities and locations that will require the design of specific noise mitigation measures;
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- h. methods for monitoring and reporting on construction noise;

- i. methods for receiving and responding to complaints about construction noise; and
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15. Where a CNVMP predicts that noise levels from a particular activity will or will likely exceed the noise limits set out in Condition 12, or where noise measurements show that compliance is not being achieved, the Requiring Authority shall prepare and submit for the approval of the Council an Activity Specific Noise Management Plan (ASNMP). The ASNMP(s) shall be submitted to the Council for review and approval at least 7 working days prior to the proposed works commencing.

Activities that exceed the limits in Condition 12 may only be undertaken subject to an approved ASNMP between Monday to Friday (inclusive) and not on Saturdays, Sundays or Public Holidays.

Works subject to the ASNMP(s) shall not commence until approval is received from the Council. If monitoring shows that levels specified in an ASNMP are being exceeded, work generating the exceedance shall stop and not recommence until further mitigation is implemented in accordance with an amended ASNMP approved by the Council.

In addition to the requirements of Condition 14, an ASNMP must:

- a. Describe the activity (including duration), plant and machinery that is expected not to comply with the noise limits in Condition 12;
- b. Describe the mitigation measures proposed to reduce the noise levels as far as practicable, including any options that have been discounted due to cost or any other reason;
- c. Provide predicted noise levels for all receivers where the noise levels will not be compliant with the limits in Condition 12, including the effect of mitigation specified in Condition 14(b) above;
- d. Provide a set of noise limits that are Activity – Specific;
- e. Describe the noise monitoring that will be undertaken to determine compliance with the Activity – Specific noise limits; and
- f. Describe any additional noise mitigation measures that may be implemented to maintain compliance with Activity Specific noise limits.

16. The CNVMP shall also describe measures adopted to meet the requirements of German Standard DIN4150-3:1999 and, as a minimum, address the following aspects with regard to construction vibration:

- a. vibration sources, including machinery, equipment and construction techniques to be used;
- b. preparation of building condition reports on 'at risk' buildings prior to, during and after completion of works, where for the purposes of this condition an 'at risk' building is one at which the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded.
- c. use of building condition surveys to determine the sensitivity of the building(s) on the adjacent sites to ground movement in terms of the Line 1-3 criteria of the DIN standard;
- d. provision for the determination of buildings that require post-condition surveys to be undertaken following commencement of blasting or piling;
- e. identification of any particularly sensitive activities in the vicinity of the proposed works (e.g. commercial activity using sensitive equipment such as radiography or mass-spectrometry), along with

details of consultation undertaken with the landowners of the sites where the sensitive activities are located and any management measures that will be adopted based on this consultation;

f. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed vibration management measures and any feedback received from those stakeholders, along with the vibration management measures that will be adopted based on this consultation;

g. methods for monitoring and reporting on construction vibration, including specification of continuous monitoring for receivers and activities where the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded or described as subject to moderate or greater risk in Table 9.1 of the report entitled Central Interceptor Project – Vibration Assessment for Combined Sewer Overflows Tonkin & Taylor Limited (July 2012); and

h. methods for receiving and responding to complaints about construction vibration.

17. Air overpressure levels from blasting shall comply with the following limits, measured and assessed in accordance with AS2187.2-2006 Explosives – Storage and Use Part 2: Use of Explosives:

a. For buildings that are not occupied for any blast event, the air overpressure limit shall be 133 dBZ L_{peak} unless agreement is reached in writing with the owner(s) (in conjunction with a building pre-condition survey) that a higher limit may apply; and

b. For buildings that are occupied for any blast event, and where there are less than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 128 dBZ L_{peak}; and

c. For buildings that are occupied for any blast event, and where there are more than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 120 dBZ L_{peak}.

Note: A blast event may comprise the detonation of one or more charges in a period not exceeding three seconds.

18. The Guideline vibration limits set out in DIN 4150-3:1999 must be complied with for all blast events and all construction activities at all buildings and infrastructure not owned by the Requiring Authority unless varied in accordance with Condition 19.

19. The Guideline vibration limits set out in DIN4150-3:1999 must not be exceeded except where the Requiring Authority can demonstrate to the satisfaction of the Council:

a. that the receiving building(s) are capable of withstanding higher levels of vibration and what the new vibration limit is. The investigation required to demonstrate this must include an assessment of the building(s) by a suitably experienced and qualified structural engineer and a full pre-condition survey; and

b. that the Requiring Authority has obtained the written agreement of the building owner(s), that a higher limit may be applied.

20. Construction works undertaken between the hours of 10pm and 7am shall at times comply with a vibration velocity limit of 0.3mms⁻¹ when measured at any part of the floor of any bedroom or habitable room of a residential dwelling. Vibration measurements to determine compliance with this limit are only required to be undertaken where a complaint is received by an occupant of any dwelling.

21. The CNVMP shall be implemented and maintained throughout the entire construction period. The CNVMP shall be updated when necessary and any updated CNVMP shall be submitted to the Council in accordance with Condition 8.

Operational Noise

22. The noise arising from any operational activities undertaken on the designated land shall not exceed the applicable noise limits set out in the Auckland Council District Plan (Auckland City Isthmus Section) or any new proposed or operative plan that has effect at the time of the works.

Traffic Management

23. A detailed Traffic Management Plan (TMP) shall be prepared for the Project, by a suitably qualified person.

24. The TMP shall describe the measures that will be taken to avoid, remedy or mitigate the traffic effects associated with construction of the Project. In particular, the TMP shall describe:

a. Traffic management measures to maintain traffic capacity or minimise the impact on traffic capacity during weekdays and weekends;

b. Methods to manage the effects of the delivery of construction material, plant and machinery;

c. Measures to maintain existing vehicle access to property where practicable, or to provide alternative access arrangements;

d. Measures to maintain pedestrian and cyclist movements and reduce the impact on mobility impaired users on roads and footpaths adjacent to the construction works. Such access shall be safe, clearly identifiable and seek to minimise significant detours;

and, where relevant:

e. Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

f. Measures to manage any potential effects on children at / around education facilities;

g. Measures to manage any potential construction traffic related effects on pedestrians and/or traffic associated with large-scale events in parks and reserves;

h. Any proposed monitoring to measure the impact of the works on traffic and the impact of the traffic management measures. If safety or operational issues are evident, measures to be implemented to address these issues;

i. Measures to manage the proposed access to the site should access be unable to cater for two way traffic passing at the same time, and in particular to minimise reverse movements and blocking of the road; and

j. The availability of on-street and off-street parking if the designated site is unable to accommodate all contractor parking. This will include an assessment of available parking (if any) for contractors on street and identify measures to meet and/or reduce contractor parking demand should it be found that there is insufficient on-street parking to meet this demand.

25. The TMP shall be consistent with the New Zealand Transport Agency Code of Practice for Temporary Traffic Management that applies at the time of construction.

26. Any damage in the road corridor directly caused by heavy vehicles entering or exiting the construction site shall be repaired as soon as practicable or within a timeframe agreed with Auckland Transport.

Pedestrian Management

27. Where construction works impact on existing pedestrian or cycle ways, alternative access shall be provided. Any temporary accessways shall be designed as far as practicable in accordance with Crime Prevention Through Environmental Design principles and provide appropriate lighting and signage where necessary.

Construction Hours

28. Construction hours shall be as follows, except where work is necessary outside the specified days or hours for the purposes specified in Condition 30 below.

a. Microtunnelling and trenching activities – this work shall generally occur during normal working hours, 7 am to 6 pm, Monday to Friday and 8 am to 6 pm Saturday, except that, the Requiring Authority may undertake microtunnelling works 24 hours a day 7 days a week (or alternative extended hours) to meet construction demands, provided that construction work can be managed to meet construction traffic, noise and vibration conditions of this designation.

b. General site activities – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday.

c. Truck movements – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday, except as identified in Condition 29.

29. Truck movements are restricted from entering and exiting the site in proximity to schools and colleges between 8:15am and 9:15am and 2:45pm and 3:15pm Monday to Friday during school and college term times.

30. Purposes for which work may occur outside of the specified days or hours are:

a. where, due to unforeseen circumstances, it is necessary to complete an activity that has commenced;

b. where work is specifically required to be planned to be carried out at certain times e.g. to tie into the existing network during periods of low flow.

c. for delivery of large equipment or special deliveries required outside of normal hours due to traffic management requirements;

d. in cases of emergency;

e. for securing of the site or removing a traffic hazard; and/or

f. for any other reason specified in the CMP or TMP.

Where any work is undertaken pursuant to paragraphs (a) – (f), the Consent Holder shall, within five working days of the commencement of such work, provide a report to Council detailing how the work was authorised under those paragraphs.

Community Information and Liaison

31. The Requiring Authority shall prepare a Communications Plan (CP) for the construction phase of the Project, and submit the plan in accordance with Condition 8, setting out:

- a. the method(s) of consultation and liaison with key stakeholders and the owners/occupiers of neighbouring properties regarding the likely timing, duration and effects of works.
- b. details of prior consultation or community liaison undertaken with the parties referred to in (a) above, including outlining any measures developed with such persons or groups to manage or to mitigate any adverse effects or inconvenience that may arise; and
- c. full contact details for the person appointed to manage the public information system and be the point of contact for related enquiries.

Tree Management

32. The Requiring Authority shall provide details in the CMP as to how the potential impacts of construction on trees and vegetation will be managed. The following matters shall be included:

- a. Identification of trees to be protected, pruned, removed, or transplanted and procedures for marking these out on site.
- b. Procedures for identifying and protecting significant trees to be retained where works occur in the dripline of such trees as identified by a suitably qualified person.

Archaeology and Heritage

33. A Cultural and Archaeological Management Plan ("CAMP") shall be prepared for the Project in consultation with tangata whenua (as listed in the report referenced in Condition 1(a)) and Auckland Council. The purpose of the CAMP is to identify areas of potential cultural and archaeological significance and to establish methods, such as further archaeological investigation prior to works or monitoring by tangata whenua during works, at sites having potential archaeological and cultural significance. The CAMP shall also include the Accidental Discovery Protocol required by Condition 34.

34. Detailed protocols for the management of archaeological and waahi tapu discoveries shall be developed by the Requiring Authority in consultation with tangata whenua, the New Zealand Historic Places Trust, and Auckland Council prior to construction. These detailed protocols shall confirm the names and contact details for tangata whenua, the New Zealand Historic Places Trust and the Council to be contacted in accordance with Condition 35.

35. If any archaeological sites, including human remains are exposed during site works then the following procedures shall apply:

- a. immediately after it becomes apparent that an archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
- b. the Requiring Authority shall immediately secure the area so that any artefacts or remains are untouched; and

c. the Requiring Authority shall notify tangata whenua, the New Zealand Historic Places Trust and the Council (and in the case of human remains, the New Zealand Police) as soon as practicable and advise those parties that an archaeological site has been exposed so that appropriate action can be taken. Works shall not recommence in the immediate vicinity of the archaeological site until approval is obtained from the New Zealand Historic Places Trust.

Site Reinstatement

36. Prior to commencement of works on the designated land, the Requiring Authority shall prepare a Reinstatement Plan for the site, in consultation with the landowner. The plan shall include:

- a. any existing structures or features on the site to be protected during works or reinstated on completion of works;
- b. the location and design of permanent wastewater infrastructure to remain at the site including the design of lid structures and chamber covers;
- c. the location and design of permanent access to the wastewater infrastructure. As far as practicable, permanent all-weather access for heavy vehicles shall minimise areas of new impermeable surfaces. In open space areas, the use of grass cell, or similar, shall be preferred;
- d. details of proposed landscaping and planting, including implementation and maintenance programmes;
- e. details of the restoration of park infrastructure to at least the same standards and specifications as existing at the time of the works; and
- f. reinstatement of all pedestrian linkages and walkways affected by construction.

37. The Reinstatement Plan shall be designed to integrate as far as practicable with relevant park development and management plans of the Council, the Auckland Design Manual - Parkland Design Guidelines (Draft 2013) or final approved or updated version of these guidelines, and designed in accordance with Crime Prevention Through Environmental Design principles.

38. When contractors' yards or other temporary works areas are no longer required for any construction or operational purpose, site works, including site offices, storage and equipment sheds, fencing and hard stand areas shall be removed and the area reinstated in accordance with Conditions 36 and 37.

Attachments

No attachments.

9461 Howlett and Waterview Walkway Pump Station

Designation Number	9461
Requiring Authority	Watercare Services Ltd
Location	Howlett and Waterview Walkway, Waterview (part of) Waterview Reserve
Rollover Designation	Yes
Legacy Reference	Designation D04-25, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	15 years from when the circumstances in section 175(1) of the Resource Management Act 1991 apply

Purpose

Wastewater Purposes, Combined Sewer Overflow (CSO) Collector Sewers.

Conditions

General Conditions

1. Except as modified by the conditions below and subject to final design, the works shall be undertaken in general accordance with the information provided by the Requiring Authority in the Notice of Requirement dated August 2012 and supporting documents being:

a. Assessment of Effects on the Environment Part A titled "Combined Sewer Overflow Collector Sewers – Resource Consent Applications and Assessment of Effects on the Environment" prepared by Watercare / Central Interceptor Team, dated 10 August 2012, reference 60102004.

b. Assessment of Effects on the Environment Part B – Drawing Set, prepared by Watercare / Central Interceptor Team dated August 2012 (all drawings dated 26 July 2012).

c. Assessment of Effects on the Environment Part C: Technical Reports (TR) as listed below:

i. TR A: Traffic Impact Assessment, prepared by Traffic Design Group, dated 7 August 2012;

ii. TR B: Noise Impact Assessment, prepared by Marshall Day Acoustics, dated 23 July 2012;

iii. TR C: Vibration Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 27993;

iv. TR D: Ground Contamination Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 26145.401;

v. TR E: CSO Settlement Study, prepared by Tonkin & Taylor Limited, dated July 2012, reference 21645.32;

vi. TR F: Archaeological Assessment, prepared by Clough & Associates Ltd, dated August 2012;

vii. TR G: Erosion and Sediment Control Plan, prepared by SKM, dated 5 June 2012;

viii. TR H: Arboricultural Assessment, prepared by Arborlab Consultancy Services Limited, dated 30 July 2012, reference 17967.

d. Section 92 Response Report to Auckland Council, dated December 2012.

e. Section 92 Response Report to Auckland Council, cover letter dated 1 March 2013 including the following attachment:

i. "Central Interceptor Combined Sewer Overflow Works – Groundwater and surface settlement effects assessment – Technical response to Auckland Council Section 92 queries", letter from Tonkin and Taylor Limited, dated 1 March 2013.

2. As soon as practicable following completion of commissioning of the Combined Sewer Overflow Collector Sewers Project and associated works ("the Project), the Requiring Authority shall, in consultation with the Auckland Council ("the Council"):

a. review the extent of the area designated for the Project;

b. identify any areas of designated land that are no longer necessary for the ongoing operation, maintenance, renewal and protection of the wastewater infrastructure;

c. give notice to the Council in accordance with Section 182 of the Resource Management Act 1991 for the removal of those parts of the designation identified in (b) above which are not required for the long term operation and maintenance of the wastewater infrastructure; and

d. provide as-built plans to the Council.

3. A liaison person shall be appointed by the Requiring Authority for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the designation and construction work. The liaison person's name and contact details shall be advised to affected parties by the Requiring Authority. This person must be reasonably available for on-going consultation on all matters of concern to affected persons arising from the Project. If a liaison person will not be available for any reason, an alternative contact person shall be nominated to ensure that a Project contact person is available by telephone 24 hours per day seven days per week during the construction phase.

4. The designation shall lapse on the expiry of a period of 15 years after the date it is included in the District Plan in accordance with Section 184(1)(c) of the RMA, unless:

a. it is given effect to before the end of that period; or

b. the Council determines, on an application made within 3 months before the expiry of that period, that substantial progress or effort has been made towards giving effect to the designation and is continuing to be made, and fixes a longer period for the purposes of this subsection.

Outline Plan of Works

5. Except as provided for in Condition 6, the Requiring Authority shall submit an Outline Plan of Works (OPW) for the Project in accordance with Section 176A of the RMA.

6. An OPW need not be submitted if the Council has waived the requirement for an OPW in accordance with Section 176A(2)(c) of the RMA.

7. The OPW shall include the following Management Plans:

a. Construction Management Plan (CMP);

b. Traffic Management Plan (TMP);

c. Communications Plan (CP);

- d. Construction Noise and Vibration Management Plan (CNVMP); and
- e. Cultural and Archaeological Management Plan (CAMP).

Construction

8. The Requiring Authority shall prepare a Construction Management Plan (CMP) for the proposed works. The purpose of the CMP is to set out the detailed management procedures and construction methods to be undertaken in order to avoid, remedy or mitigate potential adverse effects arising from construction activities. The CMP shall be provided to the Council with the OPW.

9. The CMP required by Condition 8 above shall include specific details relating to the management of all construction activities within the site, including:

a. Details of the site or project manager and the construction liaison person identified in Condition 3, including their contact details (phone, postal address, email address);

b. An outline construction programme;

c. The proposed hours of work;

d. Measures to be adopted to maintain the land affected by the works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar construction activities;

e. Location of site infrastructure including site offices, site amenities, contractors yards site access, equipment unloading and storage areas, contractor car parking, and security;

f. Procedures for controlling sediment run-off, dust and the removal of soil, debris, demolition and construction materials (if any) from public roads or places adjacent to the work site;

g. Procedures for ensuring that residents, road users and businesses in the immediate vicinity of construction areas are given prior notice of the commencement of construction activities and are informed about the expected duration and effects of the works;

h. Means of providing for the health and safety of the general public;

i. Procedures for the management of works which directly affect or are located in close proximity to existing network utility services;

j. Procedures for responding to complaints about construction activities;

k. Procedures for the refuelling of plant and equipment;

l. A Construction Noise and Vibration Management Plan (CNVMP) containing measures to address the management of noise and vibration as identified in Conditions 11 - 21;

m. Measures for the protection of and management of trees as identified in Condition 34;

n. Measures to address Crime Prevention Through Environmental Design issues within and around the construction site;

o. Measures for dealing with archaeological remains as identified in Conditions 35 - 37.

10. The CMP shall be implemented and maintained throughout the entire construction period to manage potential adverse effects arising from construction activities to the greatest practicable extent.

The CMP or any specific component of the CMP shall be updated as necessary and provided to the Council in accordance with Condition 8.

Construction Noise and Vibration

11. A Construction Noise and Vibration Management Plan (CNVMP) shall be prepared, either as part of the CMP or as a standalone plan, and shall be prepared by a suitably qualified person. The CNVMP shall be submitted to the Council with the relevant OPW to which it relates.

12. Construction noise shall be measured and assessed in accordance with NZS6803:1999 Acoustics – Construction Noise, and shall comply with the following noise limits, unless varied in accordance with Condition 15:

Time and Day	Noise Limits	
	LAeq dB	LAmx
Monday to Saturday 0730 - 1800	70	85
At all Other Times and Public Holidays	45	75

13. Construction works which exceed a level of LAeq 45dB at the most exposed receiver(s) are restricted to between 0730 to 1800 on weekdays and Saturdays, with no noisy works permitted on Sundays and Public Holidays. The CNVMP shall define which activities will comply with a limit of LAeq 45dB and can therefore be undertaken outside of these hours in compliance with Condition 30.

14. The CNVMP shall as a minimum, address the following aspects with regard to construction noise:

- a. a description of noise sources, including machinery, equipment and construction techniques to be used;
- b. predicted construction noise levels;
- c. hours of operation, including times and days when noisy construction work and blasting would occur in compliance with Condition 13;
- d. physical noise mitigation measures, including limiting the use of tonal reverse alarms during night-time works, maintenance of access roads (to ensure they are smooth), acoustic screening around the site, plant selection and maintenance procedures, and site layout;
- e. construction noise criteria for any specific areas and sensitive receivers such as schools, child care centres, medical or aged care facilities;
- f. the identification of activities and locations that will require the design of specific noise mitigation measures;
- g. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed noise management measures and any feedback received from those stakeholders, along with the noise management measures that will be adopted based on this consultation;
- h. methods for monitoring and reporting on construction noise;
- i. methods for receiving and responding to complaints about construction noise; and

j. construction operator training procedures.

15. Where a CNVMP predicts that noise levels from a particular activity will or will likely exceed the noise limits set out in Condition 12, or where noise measurements show that compliance is not being achieved, the Requiring Authority shall prepare and submit for the approval of the Council an Activity Specific Noise Management Plan (ASNMP). The ASNMP(s) shall be submitted to the Council for review and approval at least 7 working days prior to the proposed works commencing.

Activities that exceed the limits in Condition 12 may only be undertaken subject to an approved ASNMP between Monday to Friday (inclusive) and not on Saturdays, Sundays or Public Holidays.

Works subject to the ASNMP(s) shall not commence until approval is received from the Council. If monitoring shows that levels specified in an ASNMP are being exceeded, work generating the exceedance shall stop and not recommence until further mitigation is implemented in accordance with an amended ASNMP approved by the Council.

In addition to the requirements of Condition 14, an ASNMP must:

- a. Describe the activity (including duration), plant and machinery that is expected not to comply with the noise limits in Condition 12;
- b. Describe the mitigation measures proposed to reduce the noise levels as far as practicable, including any options that have been discounted due to cost or any other reason;
- c. Provide predicted noise levels for all receivers where the noise levels will not be compliant with the limits in Condition 12, including the effect of mitigation specified in Condition 14(b) above;
- d. Provide a set of noise limits that are Activity – Specific;
- e. Describe the noise monitoring that will be undertaken to determine compliance with the Activity – Specific noise limits; and
- f. Describe any additional noise mitigation measures that may be implemented to maintain compliance with Activity Specific noise limits.

16. The CNVMP shall also describe measures adopted to meet the requirements of German Standard DIN4150-3:1999 and, as a minimum, address the following aspects with regard to construction vibration:

- a. vibration sources, including machinery, equipment and construction techniques to be used;
- b. preparation of building condition reports on 'at risk' buildings prior to, during and after completion of works, where for the purposes of this condition an 'at risk' building is one at which the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded.
- c. use of building condition surveys to determine the sensitivity of the building(s) on the adjacent sites to ground movement in terms of the Line 1-3 criteria of the DIN standard;
- d. provision for the determination of buildings that require post-condition surveys to be undertaken following commencement of blasting or piling;
- e. identification of any particularly sensitive activities in the vicinity of the proposed works (e.g. commercial activity using sensitive equipment such as radiography or mass-spectrometry), along with

details of consultation undertaken with the landowners of the sites where the sensitive activities are located and any management measures that will be adopted based on this consultation;

f. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed vibration management measures and any feedback received from those stakeholders, along with the vibration management measures that will be adopted based on this consultation;

g. methods for monitoring and reporting on construction vibration, including specification of continuous monitoring for receivers and activities where the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded or described as subject to moderate or greater risk in Table 9.1 of the report entitled Central Interceptor Project – Vibration Assessment for Combined Sewer Overflows Tonkin & Taylor Limited (July 2012); and

h. methods for receiving and responding to complaints about construction vibration.

17. Air overpressure levels from blasting shall comply with the following limits, measured and assessed in accordance with AS2187.2-2006 Explosives – Storage and Use Part 2: Use of Explosives:

a. For buildings that are not occupied for any blast event, the air overpressure limit shall be 133 dBZ L_{peak} unless agreement is reached in writing with the owner(s) (in conjunction with a building pre-condition survey) that a higher limit may apply; and

b. For buildings that are occupied for any blast event, and where there are less than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 128 dBZ L_{peak} ; and

c. For buildings that are occupied for any blast event, and where there are more than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 120 dBZ L_{peak} .

Note: A blast event may comprise the detonation of one or more charges in a period not exceeding three seconds.

18. The Guideline vibration limits set out in DIN 4150-3:1999 must be complied with for all blast events and all construction activities at all buildings and infrastructure not owned by the Requiring Authority unless varied in accordance with Condition 19.

19. The Guideline vibration limits set out in DIN4150-3:1999 must not be exceeded except where the Requiring Authority can demonstrate to the satisfaction of the Council:

a. that the receiving building(s) are capable of withstanding higher levels of vibration and what the new vibration limit is. The investigation required to demonstrate this must include an assessment of the building(s) by a suitably experienced and qualified structural engineer and a full pre-condition survey; and

b. that the Requiring Authority has obtained the written agreement of the building owner(s), that a higher limit may be applied.

20. Construction works undertaken between the hours of 10pm and 7am shall at times comply with a vibration velocity limit of 0.3mms⁻¹ when measured at any part of the floor of any bedroom or habitable room of a residential dwelling. Vibration measurements to determine compliance with this limit are only required to be undertaken where a complaint is received by an occupant of any dwelling.

21. The CNVMP shall be implemented and maintained throughout the entire construction period. The CNVMP shall be updated when necessary and any updated CNVMP shall be submitted to the Council in accordance with Condition 8.

Operational Noise

22. The noise arising from any operational activities undertaken on the designated land shall not exceed the applicable noise limits set out in the Auckland Council District Plan (Auckland City Isthmus Section) or any new proposed or operative plan that has effect at the time of the works.

Traffic Management

23. A detailed Traffic Management Plan (TMP) shall be prepared for the Project, by a suitably qualified person.

24. The TMP shall describe the measures that will be taken to avoid, remedy or mitigate the traffic effects associated with construction of the Project. In particular, the TMP shall describe:

- a. Traffic management measures to maintain traffic capacity or minimise the impact on traffic capacity during weekdays and weekends;
- b. Methods to manage the effects of the delivery of construction material, plant and machinery;
- c. Measures to maintain existing vehicle access to property where practicable, or to provide alternative access arrangements;
- d. Measures to maintain pedestrian and cyclist movements and reduce the impact on mobility impaired users on roads and footpaths adjacent to the construction works. Such access shall be safe, clearly identifiable and seek to minimise significant detours;

and, where relevant:

- e. Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;
- f. Measures to manage any potential effects on children at / around education facilities;
- g. Measures to manage any potential construction traffic related effects on pedestrians and/or traffic associated with large-scale events in parks and reserves;
- h. Any proposed monitoring to measure the impact of the works on traffic and the impact of the traffic management measures. If safety or operational issues are evident, measures to be implemented to address these issues;
- i. Measures to manage the proposed access to the site should access be unable to cater for two way traffic passing at the same time, and in particular to minimise reverse movements and blocking of the road; and
- j. The availability of on-street and off-street parking if the designated site is unable to accommodate all contractor parking. This will include an assessment of available parking (if any) for contractors on street and identify measures to meet and/or reduce contractor parking demand should it be found that there is insufficient on-street parking to meet this demand.

25. The TMP shall be consistent with the New Zealand Transport Agency Code of Practice for Temporary Traffic Management that applies at the time of construction.

26. Any damage in the road corridor directly caused by heavy vehicles entering or exiting the construction site shall be repaired as soon as practicable or within a timeframe agreed with Auckland Transport.

27. Subject to the approval of Auckland Transport, the Requiring Authority shall implement temporary no stopping restrictions and associated pavement marking on Waterbank Crescent for the entirety of the construction works. These no stopping restrictions and associated pavement markings shall be removed at the completion of the construction works. The temporary no stopping restrictions shall be provided on the western side of Waterbank Crescent directly opposite the access for 15 m and to the south of the access for 5 m on the eastern side of Waterbank Crescent.

28. Vehicle access to the Howlett and Waterview Walkway site from Waterbank Crescent shall be a minimum width of 3.0 m.

Pedestrian Management

29. Where construction works impact on existing pedestrian or cycle ways, alternative access shall be provided. Any temporary accessways shall be designed as far as practicable in accordance with Crime Prevention Through Environmental Design principles and provide appropriate lighting and signage where necessary.

Construction Hours

30. Construction hours shall be as follows, except where work is necessary outside the specified days or hours for the purposes specified in Condition 32 below.

a. Microtunnelling and trenching activities – this work shall generally occur during normal working hours, 7 am to 6 pm, Monday to Friday and 8 am to 6 pm Saturday, except that, the Requiring Authority may undertake microtunnelling works 24 hours a day 7 days a week (or alternative extended hours) to meet construction demands, provided that construction work can be managed to meet construction traffic, noise and vibration conditions of this designation.

b. General site activities – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday.

c. Truck movements – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday, except as identified in Condition 31.

31. Truck movements are restricted from entering and exiting the site in proximity to schools and colleges between 8:15am and 9:15am and 2:45pm and 3:15pm Monday to Friday during school and college term times.

32. Purposes for which work may occur outside of the specified days or hours are:

a. where, due to unforeseen circumstances, it is necessary to complete an activity that has commenced;

b. where work is specifically required to be planned to be carried out at certain times e.g. to tie into the existing network during periods of low flow.

c. for delivery of large equipment or special deliveries required outside of normal hours due to traffic management requirements;

- d. in cases of emergency;
- e. for securing of the site or removing a traffic hazard; and/or
- f. for any other reason specified in the CMP or TMP.

Where any work is undertaken pursuant to paragraphs (a) – (f), the Consent Holder shall, within five working days of the commencement of such work, provide a report to Council detailing how the work was authorised under those paragraphs.

Community Information and Liaison

33. The Requiring Authority shall prepare a Communications Plan (CP) for the construction phase of the Project, and submit the plan in accordance with Condition 8, setting out:

- a. the method(s) of consultation and liaison with key stakeholders and the owners/occupiers of neighbouring properties regarding the likely timing, duration and effects of works.
- b. details of prior consultation or community liaison undertaken with the parties referred to in (a) above, including outlining any measures developed with such persons or groups to manage or to mitigate any adverse effects or inconvenience that may arise; and
- c. full contact details for the person appointed to manage the public information system and be the point of contact for related enquiries.

Tree Management

34. The Requiring Authority shall provide details in the CMP as to how the potential impacts of construction on trees and vegetation will be managed. The following matters shall be included:

- a. Identification of trees to be protected, pruned, removed, or transplanted and procedures for marking these out on site.
- b. Procedures for identifying and protecting significant trees to be retained where works occur in the dripline of such trees as identified by a suitably qualified person.

Archaeology and Heritage

35. A Cultural and Archaeological Management Plan ("CAMP") shall be prepared for the Project in consultation with tangata whenua (as listed in the report referenced in Condition 1(a)) and Auckland Council. The purpose of the CAMP is to identify areas of potential cultural and archaeological significance and to establish methods, such as further archaeological investigation prior to works or monitoring by tangata whenua during works, at sites having potential archaeological and cultural significance. The CAMP shall also include the Accidental Discovery Protocol required by Condition 36.

36. Detailed protocols for the management of archaeological and waahi tapu discoveries shall be developed by the Requiring Authority in consultation with tangata whenua, the New Zealand Historic Places Trust, and Auckland Council prior to construction. These detailed protocols shall confirm the names and contact details for tangata whenua, the New Zealand Historic Places Trust and the Council to be contacted in accordance with Condition 37.

37. If any archaeological sites, including human remains are exposed during site works then the following procedures shall apply:

- a. immediately after it becomes apparent that an archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
- b. the Requiring Authority shall immediately secure the area so that any artefacts or remains are untouched; and
- c. the Requiring Authority shall notify tangata whenua, the New Zealand Historic Places Trust and the Council (and in the case of human remains, the New Zealand Police) as soon as practicable and advise those parties that an archaeological site has been exposed so that appropriate action can be taken. Works shall not recommence in the immediate vicinity of the archaeological site until approval is obtained from the New Zealand Historic Places Trust.

Site Reinstatement

38. Prior to commencement of works on the designated land, the Requiring Authority shall prepare a Reinstatement Plan for the site, in consultation with the landowner. The plan shall include:

- a. any existing structures or features on the site to be protected during works or reinstated on completion of works;
- b. the location and design of permanent wastewater infrastructure to remain at the site including the design of lid structures and chamber covers;
- c. the location and design of permanent access to the wastewater infrastructure. As far as practicable, permanent all-weather access for heavy vehicles shall minimise areas of new impermeable surfaces. In open space areas, the use of grass cell, or similar, shall be preferred;
- d. details of proposed landscaping and planting, including implementation and maintenance programmes;
- e. details of the restoration of park infrastructure to at least the same standards and specifications as existing at the time of the works; and
- f. reinstatement of all pedestrian linkages and walkways affected by construction.

39. The Reinstatement Plan shall be designed to integrate as far as practicable with relevant park development and management plans of the Council, the Auckland Design Manual - Parkland Design Guidelines (Draft 2013) or final approved or updated version of these guidelines, and designed in accordance with Crime Prevention Through Environmental Design principles.

40. When contractors' yards or other temporary works areas are no longer required for any construction or operational purpose, site works, including site offices, storage and equipment sheds, fencing and hard stand areas shall be removed and the area reinstated in accordance with Conditions 38 and 39.

Attachments

No attachments.

9462 Seaside Reserve Pump Station

Designation Number	9462
Requiring Authority	Watercare Services Ltd
Location	Seaside Reserve, Waterview, 21 Seaside Avenue and Seaside Avenue (in part)
Rollover Designation	Yes
Legacy Reference	Designation E03-15, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	15 years from when the circumstances in section 175(1) of the Resource Management Act 1991 apply

Purpose

Wastewater Purposes, Combined Sewer Overflow (CSO) Collector Sewers.

Conditions

General Conditions

1. Except as modified by the conditions below and subject to final design, the works shall be undertaken in general accordance with the information provided by the Requiring Authority in the Notice of Requirement dated August 2012 and supporting documents being:
 - a. Assessment of Effects on the Environment Part A titled "Combined Sewer Overflow Collector Sewers – Resource Consent Applications and Assessment of Effects on the Environment" prepared by Watercare / Central Interceptor Team, dated 10 August 2012, reference 60102004.
 - b. Assessment of Effects on the Environment Part B – Drawing Set, prepared by Watercare / Central Interceptor Team dated August 2012 (all drawings dated 26 July 2012).
 - c. Assessment of Effects on the Environment Part C: Technical Reports (TR) as listed below:
 - i. TR A: Traffic Impact Assessment, prepared by Traffic Design Group, dated 7 August 2012;
 - ii. TR B: Noise Impact Assessment, prepared by Marshall Day Acoustics, dated 23 July 2012;
 - iii. TR C: Vibration Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 27993;
 - iv. TR D: Ground Contamination Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 26145.401;
 - v. TR E: CSO Settlement Study, prepared by Tonkin & Taylor Limited, dated July 2012, reference 21645.32;
 - vi. TR F: Archaeological Assessment, prepared by Clough & Associates Ltd, dated August 2012;
 - vii. TR G: Erosion and Sediment Control Plan, prepared by SKM, dated 5 June 2012;
 - viii. TR H: Arboricultural Assessment, prepared by Arborlab Consultancy Services Limited, dated 30 July 2012, reference 17967.

- d. Section 92 Response Report to Auckland Council, dated December 2012.
- e. Section 92 Response Report to Auckland Council, cover letter dated 1 March 2013 including the following attachment:
 - i. "Central Interceptor Combined Sewer Overflow Works – Groundwater and surface settlement effects assessment – Technical response to Auckland Council Section 92 queries", letter from Tonkin and Taylor Limited, dated 1 March 2013.

2. As soon as practicable following completion of commissioning of the Combined Sewer Overflow Collector Sewers Project and associated works ("the Project), the Requiring Authority shall, in consultation with the Auckland Council ("the Council"):

- a. review the extent of the area designated for the Project;
- b. identify any areas of designated land that are no longer necessary for the ongoing operation, maintenance, renewal and protection of the wastewater infrastructure;
- c. give notice to the Council in accordance with Section 182 of the Resource Management Act 1991 for the removal of those parts of the designation identified in (b) above which are not required for the long term operation and maintenance of the wastewater infrastructure; and
- d. provide as-built plans to the Council.

3. A liaison person shall be appointed by the Requiring Authority for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the designation and construction work. The liaison person's name and contact details shall be advised to affected parties by the Requiring Authority. This person must be reasonably available for on-going consultation on all matters of concern to affected persons arising from the Project. If a liaison person will not be available for any reason, an alternative contact person shall be nominated to ensure that a Project contact person is available by telephone 24 hours per day seven days per week during the construction phase.

4. The designation shall lapse on the expiry of a period of 15 years after the date it is included in the District Plan in accordance with Section 184(1)(c) of the RMA, unless:

- a. it is given effect to before the end of that period; or
- b. the Council determines, on an application made within 3 months before the expiry of that period, that substantial progress or effort has been made towards giving effect to the designation and is continuing to be made, and fixes a longer period for the purposes of this subsection.

Outline Plan of Works

5. Except as provided for in Condition 6, the Requiring Authority shall submit an Outline Plan of Works (OPW) for the Project in accordance with Section 176A of the RMA.

6. An OPW need not be submitted if the Council has waived the requirement for an OPW in accordance with Section 176A(2)(c) of the RMA.

7. The OPW shall include the following Management Plans:

- a. Construction Management Plan (CMP);

- b. Traffic Management Plan (TMP);
- c. Communications Plan (CP);
- d. Construction Noise and Vibration Management Plan (CNVMP); and
- e. Cultural and Archaeological Management Plan (CAMP).

Construction

8. The Requiring Authority shall prepare a Construction Management Plan (CMP) for the proposed works. The purpose of the CMP is to set out the detailed management procedures and construction methods to be undertaken in order to avoid, remedy or mitigate potential adverse effects arising from construction activities. The CMP shall be provided to the Council with the OPW.

9. The CMP required by Condition 8 above shall include specific details relating to the management of all construction activities within the site, including:

- a. Details of the site or project manager and the construction liaison person identified in Condition 3, including their contact details (phone, postal address, email address);
- b. An outline construction programme;
- c. The proposed hours of work;
- d. Measures to be adopted to maintain the land affected by the works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar construction activities;
- e. Location of site infrastructure including site offices, site amenities, contractors yards site access, equipment unloading and storage areas, contractor car parking, and security;
- f. Procedures for controlling sediment run-off, dust and the removal of soil, debris, demolition and construction materials (if any) from public roads or places adjacent to the work site;
- g. Procedures for ensuring that residents, road users and businesses in the immediate vicinity of construction areas are given prior notice of the commencement of construction activities and are informed about the expected duration and effects of the works;
- h. Means of providing for the health and safety of the general public;
- i. Procedures for the management of works which directly affect or are located in close proximity to existing network utility services;
- j. Procedures for responding to complaints about construction activities;
- k. Procedures for the refuelling of plant and equipment;
- l. A Construction Noise and Vibration Management Plan (CNVMP) containing measures to address the management of noise and vibration as identified in Conditions 11 - 21;
- m. Measures for the protection of and management of trees as identified in Condition 31;
- n. Measures to address Crime Prevention Through Environmental Design issues within and around the construction site;

o. Measures for dealing with archaeological remains as identified in Conditions 32 - 34.

10. The CMP shall be implemented and maintained throughout the entire construction period to manage potential adverse effects arising from construction activities to the greatest practicable extent. The CMP or any specific component of the CMP shall be updated as necessary and provided to the Council in accordance with Condition 8.

Construction Noise and Vibration

11. A Construction Noise and Vibration Management Plan (CNVMP) shall be prepared, either as part of the CMP or as a standalone plan, and shall be prepared by a suitably qualified person. The CNVMP shall be submitted to the Council with the relevant OPW to which it relates.

12. Construction noise shall be measured and assessed in accordance with NZS6803:1999 Acoustics – Construction Noise, and shall comply with the following noise limits, unless varied in accordance with Condition 15:

Time and Day	Noise Limits	
	LAeq dB	LAmx
Monday to Saturday 0730 - 1800	70	85
At all Other Times and Public Holidays	45	75

13. Construction works which exceed a level of LAeq 45dB at the most exposed receiver(s) are restricted to between 0730 to 1800 on weekdays and Saturdays, with no noisy works permitted on Sundays and Public Holidays. The CNVMP shall define which activities will comply with a limit of LAeq 45dB and can therefore be undertaken outside of these hours in compliance with Condition 28.

14. The CNVMP shall as a minimum, address the following aspects with regard to construction noise:

- a. a description of noise sources, including machinery, equipment and construction techniques to be used;
- b. predicted construction noise levels;
- c. hours of operation, including times and days when noisy construction work and blasting would occur in compliance with Condition 13;
- d. physical noise mitigation measures, including limiting the use of tonal reverse alarms during night-time works, maintenance of access roads (to ensure they are smooth), acoustic screening around the site, plant selection and maintenance procedures, and site layout;
- e. construction noise criteria for any specific areas and sensitive receivers such as schools, child care centres, medical or aged care facilities;
- f. the identification of activities and locations that will require the design of specific noise mitigation measures;
- g. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed noise management measures and any feedback received from those stakeholders, along with the noise management measures that will be adopted based on this consultation;

- h. methods for monitoring and reporting on construction noise;
- i. methods for receiving and responding to complaints about construction noise; and
- j. construction operator training procedures.

15. Where a CNVMP predicts that noise levels from a particular activity will or will likely exceed the noise limits set out in Condition 12, or where noise measurements show that compliance is not being achieved, the Requiring Authority shall prepare and submit for the approval of the Council an Activity Specific Noise Management Plan (ASNMP). The ASNMP(s) shall be submitted to the Council for review and approval at least 7 working days prior to the proposed works commencing.

Activities that exceed the limits in Condition 12 may only be undertaken subject to an approved ASNMP between Monday to Friday (inclusive) and not on Saturdays, Sundays or Public Holidays.

Works subject to the ASNMP(s) shall not commence until approval is received from the Council. If monitoring shows that levels specified in an ASNMP are being exceeded, work generating the exceedance shall stop and not recommence until further mitigation is implemented in accordance with an amended ASNMP approved by the Council.

In addition to the requirements of Condition 14, an ASNMP must:

- a. Describe the activity (including duration), plant and machinery that is expected not to comply with the noise limits in Condition 12;
- b. Describe the mitigation measures proposed to reduce the noise levels as far as practicable, including any options that have been discounted due to cost or any other reason;
- c. Provide predicted noise levels for all receivers where the noise levels will not be compliant with the limits in Condition 12, including the effect of mitigation specified in Condition 14(b) above;
- d. Provide a set of noise limits that are Activity – Specific;
- e. Describe the noise monitoring that will be undertaken to determine compliance with the Activity – Specific noise limits; and
- f. Describe any additional noise mitigation measures that may be implemented to maintain compliance with Activity Specific noise limits.

16. The CNVMP shall also describe measures adopted to meet the requirements of German Standard DIN4150-3:1999 and, as a minimum, address the following aspects with regard to construction vibration:

- a. vibration sources, including machinery, equipment and construction techniques to be used;
- b. preparation of building condition reports on 'at risk' buildings prior to, during and after completion of works, where for the purposes of this condition an 'at risk' building is one at which the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded.
- c. use of building condition surveys to determine the sensitivity of the building(s) on the adjacent sites to ground movement in terms of the Line 1-3 criteria of the DIN standard;
- d. provision for the determination of buildings that require post-condition surveys to be undertaken following commencement of blasting or piling;

e. identification of any particularly sensitive activities in the vicinity of the proposed works (e.g. commercial activity using sensitive equipment such as radiography or mass-spectrometry), along with details of consultation undertaken with the landowners of the sites where the sensitive activities are located and any management measures that will be adopted based on this consultation;

f. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed vibration management measures and any feedback received from those stakeholders, along with the vibration management measures that will be adopted based on this consultation;

g. methods for monitoring and reporting on construction vibration, including specification of continuous monitoring for receivers and activities where the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded or described as subject to moderate or greater risk in Table 9.1 of the report entitled Central Interceptor Project – Vibration Assessment for Combined Sewer Overflows Tonkin & Taylor Limited (July 2012); and

h. methods for receiving and responding to complaints about construction vibration.

17. Air overpressure levels from blasting shall comply with the following limits, measured and assessed in accordance with AS2187.2-2006 Explosives – Storage and Use Part 2: Use of Explosives:

a. For buildings that are not occupied for any blast event, the air overpressure limit shall be 133 dBZ L_{peak} unless agreement is reached in writing with the owner(s) (in conjunction with a building pre-condition survey) that a higher limit may apply; and

b. For buildings that are occupied for any blast event, and where there are less than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 128 dBZ L_{peak}; and

c. For buildings that are occupied for any blast event, and where there are more than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 120 dBZ L_{peak}.

Note: A blast event may comprise the detonation of one or more charges in a period not exceeding three seconds.

18. The Guideline vibration limits set out in DIN 4150-3:1999 must be complied with for all blast events and all construction activities at all buildings and infrastructure not owned by the Requiring Authority unless varied in accordance with Condition 19.

19. The Guideline vibration limits set out in DIN4150-3:1999 must not be exceeded except where the Requiring Authority can demonstrate to the satisfaction of the Council:

a. that the receiving building(s) are capable of withstanding higher levels of vibration and what the new vibration limit is. The investigation required to demonstrate this must include an assessment of the building(s) by a suitably experienced and qualified structural engineer and a full pre-condition survey; and

b. that the Requiring Authority has obtained the written agreement of the building owner(s), that a higher limit may be applied.

20. Construction works undertaken between the hours of 10pm and 7am shall at times comply with a vibration velocity limit of 0.3mms⁻¹ when measured at any part of the floor of any bedroom or habitable room of a residential dwelling. Vibration measurements to determine compliance with this limit are only required to be undertaken where a complaint is received by an occupant of any dwelling.

21. The CNVMP shall be implemented and maintained throughout the entire construction period. The CNVMP shall be updated when necessary and any updated CNVMP shall be submitted to the Council in accordance with Condition 8.

Operational Noise

22. The noise arising from any operational activities undertaken on the designated land shall not exceed the applicable noise limits set out in the Auckland Council District Plan (Auckland City Isthmus Section) or any new proposed or operative plan that has effect at the time of the works.

Traffic Management

23. A detailed Traffic Management Plan (TMP) shall be prepared for the Project, by a suitably qualified person.

24. The TMP shall describe the measures that will be taken to avoid, remedy or mitigate the traffic effects associated with construction of the Project. In particular, the TMP shall describe:

- a. Traffic management measures to maintain traffic capacity or minimise the impact on traffic capacity during weekdays and weekends;
- b. Methods to manage the effects of the delivery of construction material, plant and machinery;
- c. Measures to maintain existing vehicle access to property where practicable, or to provide alternative access arrangements;
- d. Measures to maintain pedestrian and cyclist movements and reduce the impact on mobility impaired users on roads and footpaths adjacent to the construction works. Such access shall be safe, clearly identifiable and seek to minimise significant detours;

and, where relevant:

- e. Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;
- f. Measures to manage any potential effects on children at / around education facilities;
- g. Measures to manage any potential construction traffic related effects on pedestrians and/or traffic associated with large-scale events in parks and reserves;
- h. Any proposed monitoring to measure the impact of the works on traffic and the impact of the traffic management measures. If safety or operational issues are evident, measures to be implemented to address these issues;
- i. Measures to manage the proposed access to the site should access be unable to cater for two way traffic passing at the same time, and in particular to minimise reverse movements and blocking of the road; and
- j. The availability of on-street and off-street parking if the designated site is unable to accommodate all contractor parking. This will include an assessment of available parking (if any) for contractors on street and identify measures to meet and/or reduce contractor parking demand should it be found that there is insufficient on-street parking to meet this demand.

25. The TMP shall be consistent with the New Zealand Transport Agency Code of Practice for Temporary Traffic Management that applies at the time of construction.

26. Any damage in the road corridor directly caused by heavy vehicles entering or exiting the construction site shall be repaired as soon as practicable or within a timeframe agreed with Auckland Transport.

Pedestrian Management

27. Where construction works impact on existing pedestrian or cycle ways, alternative access shall be provided. Any temporary accessways shall be designed as far as practicable in accordance with Crime Prevention Through Environmental Design principles and provide appropriate lighting and signage where necessary.

Construction Hours

28. Construction hours shall be as follows, except where work is necessary outside the specified days or hours for the purposes specified in Condition 29 below.

a. Microtunnelling and trenching activities – this work shall generally occur during normal working hours, 7 am to 6 pm, Monday to Friday and 8 am to 6 pm Saturday, except that, the Requiring Authority may undertake microtunnelling works 24 hours a day 7 days a week (or alternative extended hours) to meet construction demands, provided that construction work can be managed to meet construction traffic, noise and vibration conditions of this designation.

b. General site activities – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday.

c. Truck movements – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday.

29. Purposes for which work may occur outside of the specified days or hours are:

a. where, due to unforeseen circumstances, it is necessary to complete an activity that has commenced;

b. where work is specifically required to be planned to be carried out at certain times e.g. to tie into the existing network during periods of low flow.

c. for delivery of large equipment or special deliveries required outside of normal hours due to traffic management requirements;

d. in cases of emergency;

e. for securing of the site or removing a traffic hazard; and/or

f. for any other reason specified in the CMP or TMP.

Where any work is undertaken pursuant to paragraphs (a) – (f), the Consent Holder shall, within five working days of the commencement of such work, provide a report to Council detailing how the work was authorised under those paragraphs.

Community Information and Liaison

30. The Requiring Authority shall prepare a Communications Plan (CP) for the construction phase of the Project, and submit the plan in accordance with Condition 8, setting out:

- a. the method(s) of consultation and liaison with key stakeholders and the owners/occupiers of neighbouring properties regarding the likely timing, duration and effects of works.
- b. details of prior consultation or community liaison undertaken with the parties referred to in (a) above, including outlining any measures developed with such persons or groups to manage or to mitigate any adverse effects or inconvenience that may arise; and
- c. full contact details for the person appointed to manage the public information system and be the point of contact for related enquiries.

Tree Management

31. The Requiring Authority shall provide details in the CMP as to how the potential impacts of construction on trees and vegetation will be managed. The following matters shall be included:

- a. Identification of trees to be protected, pruned, removed, or transplanted and procedures for marking these out on site.
- b. Procedures for identifying and protecting significant trees to be retained where works occur in the dripline of such trees as identified by a suitably qualified person.

Archaeology and Heritage

32. A Cultural and Archaeological Management Plan ("CAMP") shall be prepared for the Project in consultation with tangata whenua (as listed in the report referenced in Condition 1(a)) and Auckland Council. The purpose of the CAMP is to identify areas of potential cultural and archaeological significance and to establish methods, such as further archaeological investigation prior to works or monitoring by tangata whenua during works, at sites having potential archaeological and cultural significance. The CAMP shall also include the Accidental Discovery Protocol required by Condition 33.

33. Detailed protocols for the management of archaeological and waahi tapu discoveries shall be developed by the Requiring Authority in consultation with tangata whenua, the New Zealand Historic Places Trust, and Auckland Council prior to construction. These detailed protocols shall confirm the names and contact details for tangata whenua, the New Zealand Historic Places Trust and the Council to be contacted in accordance with Condition 34.

34. If any archaeological sites, including human remains are exposed during site works then the following procedures shall apply:

- a. immediately after it becomes apparent that an archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
- b. the Requiring Authority shall immediately secure the area so that any artefacts or remains are untouched; and
- c. the Requiring Authority shall notify tangata whenua, the New Zealand Historic Places Trust and the Council (and in the case of human remains, the New Zealand Police) as soon as practicable and advise those parties that an archaeological site has been exposed so that appropriate action can be taken. Works shall not recommence in the immediate vicinity of the archaeological site until approval is obtained from the New Zealand Historic Places Trust.

Site Reinstatement

35. Prior to commencement of works on the designated land, the Requiring Authority shall prepare a Reinstatement Plan for the site, in consultation with the landowner. The plan shall include:

- a. any existing structures or features on the site to be protected during works or reinstated on completion of works;
- b. the location and design of permanent wastewater infrastructure to remain at the site including the design of lid structures and chamber covers;
- c. the location and design of permanent access to the wastewater infrastructure. As far as practicable, permanent all-weather access for heavy vehicles shall minimise areas of new impermeable surfaces. In open space areas, the use of grass cell, or similar, shall be preferred;
- d. details of proposed landscaping and planting, including implementation and maintenance programmes;
- e. details of the restoration of park infrastructure to at least the same standards and specifications as existing at the time of the works; and
- f. reinstatement of all pedestrian linkages and walkways affected by construction.

36. The Reinstatement Plan shall be designed to integrate as far as practicable with relevant park development and management plans of the Council, the Auckland Design Manual - Parkland Design Guidelines (Draft 2013) or final approved or updated version of these guidelines, and designed in accordance with Crime Prevention Through Environmental Design principles.

37. When contractors' yards or other temporary works areas are no longer required for any construction or operational purpose, site works, including site offices, storage and equipment sheds, fencing and hard stand areas shall be removed and the area reinstated in accordance with Conditions 35 and 36.

Attachments

No attachments.

9463 Alan Wood Reserve Pump Station

Designation Number	9463
Requiring Authority	Watercare Services Limited
Location	Alan Wood Reserve, New Windsor
Rollover Designation	Yes
Legacy Reference	Designation F04-22, Auckland Council District Plan (Auckland City Council Isthmus Section 1999)
Lapse Date	15 years from when the circumstances in section 175(1) of the Resource Management Act 1991 apply

Purpose

Wastewater Purposes, Combined Sewer Overflow (CSO) Collector Sewers, Alan Wood Reserve.

Conditions

General Conditions

1. Except as modified by the conditions below and subject to final design, the works shall be undertaken in general accordance with the information provided by the Requiring Authority in the Notice of Requirement dated August 2012 and supporting documents being:
 - a. Assessment of Effects on the Environment Part A titled "Combined Sewer Overflow Collector Sewers – Resource Consent Applications and Assessment of Effects on the Environment" prepared by Watercare / Central Interceptor Team, dated 10 August 2012, reference 60102004.
 - b. Assessment of Effects on the Environment Part B – Drawing Set, prepared by Watercare / Central Interceptor Team dated August 2012 (all drawings dated 26 July 2012).
 - c. Assessment of Effects on the Environment Part C: Technical Reports (TR) as listed below:
 - i. TR A: Traffic Impact Assessment, prepared by Traffic Design Group, dated 7 August 2012;
 - ii. TR B: Noise Impact Assessment, prepared by Marshall Day Acoustics, dated 23 July 2012;
 - iii. TR C: Vibration Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 27993;
 - iv. TR D: Ground Contamination Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 26145.401;
 - v. TR E: CSO Settlement Study, prepared by Tonkin & Taylor Limited, dated July 2012, reference 21645.32;
 - vi. TR F: Archaeological Assessment, prepared by Clough & Associates Ltd, dated August 2012;
 - vii. TR G: Erosion and Sediment Control Plan, prepared by SKM, dated 5 June 2012;
 - viii. TR H: Arboricultural Assessment, prepared by Arborlab Consultancy Services Limited, dated 30 July 2012, reference 17967.

- d. Section 92 Response Report to Auckland Council, dated December 2012.
- e. Section 92 Response Report to Auckland Council, cover letter dated 1 March 2013 including the following attachment:
 - i. "Central Interceptor Combined Sewer Overflow Works – Groundwater and surface settlement effects assessment – Technical response to Auckland Council Section 92 queries", letter from Tonkin and Taylor Limited, dated 1 March 2013.

2. As soon as practicable following completion of commissioning of the Combined Sewer Overflow Collector Sewers Project and associated works ("the Project), the Requiring Authority shall, in consultation with the Auckland Council ("the Council"):

- a. review the extent of the area designated for the Project;
- b. identify any areas of designated land that are no longer necessary for the ongoing operation, maintenance, renewal and protection of the wastewater infrastructure;
- c. give notice to the Council in accordance with Section 182 of the Resource Management Act 1991 for the removal of those parts of the designation identified in (b) above which are not required for the long term operation and maintenance of the wastewater infrastructure; and
- d. provide as-built plans to the Council.

3. A liaison person shall be appointed by the Requiring Authority for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the designation and construction work. The liaison person's name and contact details shall be advised to affected parties by the Requiring Authority. This person must be reasonably available for on-going consultation on all matters of concern to affected persons arising from the Project. If a liaison person will not be available for any reason, an alternative contact person shall be nominated to ensure that a Project contact person is available by telephone 24 hours per day seven days per week during the construction phase.

4. The designation shall lapse on the expiry of a period of 15 years after the date it is included in the District Plan in accordance with Section 184(1)(c) of the RMA, unless:

- a. it is given effect to before the end of that period; or
- b. the Council determines, on an application made within 3 months before the expiry of that period, that substantial progress or effort has been made towards giving effect to the designation and is continuing to be made, and fixes a longer period for the purposes of this subsection.

Outline Plan of Works

5. Except as provided for in Condition 6, the Requiring Authority shall submit an Outline Plan of Works (OPW) for the Project in accordance with Section 176A of the RMA.

6. An OPW need not be submitted if the Council has waived the requirement for an OPW in accordance with Section 176A(2)(c) of the RMA.

7. The OPW shall include the following Management Plans:

- a. Construction Management Plan (CMP);
- b. Traffic Management Plan (TMP);

- c. Communications Plan (CP);
- d. Construction Noise and Vibration Management Plan (CNVMP); and
- e. Cultural and Archaeological Management Plan (CAMP).

Construction

8. The Requiring Authority shall prepare a Construction Management Plan (CMP) for the proposed works. The purpose of the CMP is to set out the detailed management procedures and construction methods to be undertaken in order to avoid, remedy or mitigate potential adverse effects arising from construction activities. The CMP shall be provided to the Council with the OPW.

9. The CMP required by Condition 8 above shall include specific details relating to the management of all construction activities within the site, including:

- a. Details of the site or project manager and the construction liaison person identified in Condition 3, including their contact details (phone, postal address, email address);
- b. An outline construction programme;
- c. The proposed hours of work;
- d. Measures to be adopted to maintain the land affected by the works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar construction activities;
- e. Location of site infrastructure including site offices, site amenities, contractors yards site access, equipment unloading and storage areas, contractor car parking, and security;
- f. Procedures for controlling sediment run-off, dust and the removal of soil, debris, demolition and construction materials (if any) from public roads or places adjacent to the work site;
- g. Procedures for ensuring that residents, road users and businesses in the immediate vicinity of construction areas are given prior notice of the commencement of construction activities and are informed about the expected duration and effects of the works;
- h. Means of providing for the health and safety of the general public;
- i. Procedures for the management of works which directly affect or are located in close proximity to existing network utility services;
- j. Procedures for responding to complaints about construction activities;
- k. Procedures for the refuelling of plant and equipment;
- l. A Construction Noise and Vibration Management Plan (CNVMP) containing measures to address the management of noise and vibration as identified in Conditions 11 - 21;
- m. Measures for the protection of and management of trees as identified in Condition 33;
- n. Measures to address Crime Prevention Through Environmental Design issues within and around the construction site;
- o. Measures for dealing with archaeological remains as identified in Conditions 34 - 36.

10. The CMP shall be implemented and maintained throughout the entire construction period to manage potential adverse effects arising from construction activities to the greatest practicable extent. The CMP or any specific component of the CMP shall be updated as necessary and provided to the Council in accordance with Condition 8.

Construction Noise and Vibration

11. A Construction Noise and Vibration Management Plan (CNVMP) shall be prepared, either as part of the CMP or as a standalone plan, and shall be prepared by a suitably qualified person. The CNVMP shall be submitted to the Council with the relevant OPW to which it relates.

12. Construction noise shall be measured and assessed in accordance with NZS6803:1999 Acoustics – Construction Noise, and shall comply with the following noise limits, unless varied in accordance with Condition 15:

Time and Day	Noise Limits	
	LAeq dB	LAmix
Monday to Saturday 0730 - 1800	70	85
At all Other Times and Public Holidays	45	75

13. Construction works which exceed a level of LAeq 45dB at the most exposed receiver(s) are restricted to between 0730 to 1800 on weekdays and Saturdays, with no noisy works permitted on Sundays and Public Holidays. The CNVMP shall define which activities will comply with a limit of LAeq 45dB and can therefore be undertaken outside of these hours in compliance with Condition 30.

14. The CNVMP shall as a minimum, address the following aspects with regard to construction noise:

- a. a description of noise sources, including machinery, equipment and construction techniques to be used;
- b. predicted construction noise levels;
- c. hours of operation, including times and days when noisy construction work and blasting would occur in compliance with Condition 13;
- d. physical noise mitigation measures, including limiting the use of tonal reverse alarms during night-time works, maintenance of access roads (to ensure they are smooth), acoustic screening around the site, plant selection and maintenance procedures, and site layout;
- e. construction noise criteria for any specific areas and sensitive receivers such as schools, child care centres, medical or aged care facilities;
- f. the identification of activities and locations that will require the design of specific noise mitigation measures;
- g. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed noise management measures and any feedback received from those stakeholders, along with the noise management measures that will be adopted based on this consultation;
- h. methods for monitoring and reporting on construction noise;

- i. methods for receiving and responding to complaints about construction noise; and
- j. construction operator training procedures.

15. Where a CNVMP predicts that noise levels from a particular activity will or will likely exceed the noise limits set out in Condition 12, or where noise measurements show that compliance is not being achieved, the Requiring Authority shall prepare and submit for the approval of the Council an Activity Specific Noise Management Plan (ASNMP). The ASNMP(s) shall be submitted to the Council for review and approval at least 7 working days prior to the proposed works commencing.

Activities that exceed the limits in Condition 12 may only be undertaken subject to an approved ASNMP between Monday to Friday (inclusive) and not on Saturdays, Sundays or Public Holidays.

Works subject to the ASNMP(s) shall not commence until approval is received from the Council. If monitoring shows that levels specified in an ASNMP are being exceeded, work generating the exceedance shall stop and not recommence until further mitigation is implemented in accordance with an amended ASNMP approved by the Council.

In addition to the requirements of Condition 14, an ASNMP must:

- a. Describe the activity (including duration), plant and machinery that is expected not to comply with the noise limits in Condition 12;
- b. Describe the mitigation measures proposed to reduce the noise levels as far as practicable, including any options that have been discounted due to cost or any other reason;
- c. Provide predicted noise levels for all receivers where the noise levels will not be compliant with the limits in Condition 12, including the effect of mitigation specified in Condition 14(b) above;
- d. Provide a set of noise limits that are Activity – Specific;
- e. Describe the noise monitoring that will be undertaken to determine compliance with the Activity – Specific noise limits; and
- f. Describe any additional noise mitigation measures that may be implemented to maintain compliance with Activity Specific noise limits.

16. The CNVMP shall also describe measures adopted to meet the requirements of German Standard DIN4150-3:1999 and, as a minimum, address the following aspects with regard to construction vibration:

- a. vibration sources, including machinery, equipment and construction techniques to be used;
- b. preparation of building condition reports on 'at risk' buildings prior to, during and after completion of works, where for the purposes of this condition an 'at risk' building is one at which the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded.
- c. use of building condition surveys to determine the sensitivity of the building(s) on the adjacent sites to ground movement in terms of the Line 1-3 criteria of the DIN standard;
- d. provision for the determination of buildings that require post-condition surveys to be undertaken following commencement of blasting or piling;
- e. identification of any particularly sensitive activities in the vicinity of the proposed works (e.g. commercial activity using sensitive equipment such as radiography or mass-spectrometry), along with

details of consultation undertaken with the landowners of the sites where the sensitive activities are located and any management measures that will be adopted based on this consultation;

f. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed vibration management measures and any feedback received from those stakeholders, along with the vibration management measures that will be adopted based on this consultation;

g. methods for monitoring and reporting on construction vibration, including specification of continuous monitoring for receivers and activities where the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded or described as subject to moderate or greater risk in Table 9.1 of the report entitled Central Interceptor Project – Vibration Assessment for Combined Sewer Overflows Tonkin & Taylor Limited (July 2012); and

h. methods for receiving and responding to complaints about construction vibration.

17. Air overpressure levels from blasting shall comply with the following limits, measured and assessed in accordance with AS2187.2-2006 Explosives – Storage and Use Part 2: Use of Explosives:

a. For buildings that are not occupied for any blast event, the air overpressure limit shall be 133 dBZ L_{peak} unless agreement is reached in writing with the owner(s) (in conjunction with a building pre-condition survey) that a higher limit may apply; and

b. For buildings that are occupied for any blast event, and where there are less than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 128 dBZ L_{peak}; and

c. For buildings that are occupied for any blast event, and where there are more than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 120 dBZ L_{peak}.

Note: A blast event may comprise the detonation of one or more charges in a period not exceeding three seconds.

18. The Guideline vibration limits set out in DIN 4150-3:1999 must be complied with for all blast events and all construction activities at all buildings and infrastructure not owned by the Requiring Authority unless varied in accordance with Condition 19.

19. The Guideline vibration limits set out in DIN4150-3:1999 must not be exceeded except where the Requiring Authority can demonstrate to the satisfaction of the Council:

a. that the receiving building(s) are capable of withstanding higher levels of vibration and what the new vibration limit is. The investigation required to demonstrate this must include an assessment of the building(s) by a suitably experienced and qualified structural engineer and a full pre-condition survey; and

b. that the Requiring Authority has obtained the written agreement of the building owner(s), that a higher limit may be applied.

20. Construction works undertaken between the hours of 10pm and 7am shall at times comply with a vibration velocity limit of 0.3mms⁻¹ when measured at any part of the floor of any bedroom or habitable room of a residential dwelling. Vibration measurements to determine compliance with this limit are only required to be undertaken where a complaint is received by an occupant of any dwelling.

21. The CNVMP shall be implemented and maintained throughout the entire construction period. The CNVMP shall be updated when necessary and any updated CNVMP shall be submitted to the Council in accordance with Condition 8.

Operational Noise

22. The noise arising from any operational activities undertaken on the designated land shall not exceed the applicable noise limits set out in the Auckland Council District Plan (Auckland City Isthmus Section) or any new proposed or operative plan that has effect at the time of the works.

Traffic Management

23. A detailed Traffic Management Plan (TMP) shall be prepared for the Project, by a suitably qualified person.

24. The TMP shall describe the measures that will be taken to avoid, remedy or mitigate the traffic effects associated with construction of the Project. In particular, the TMP shall describe:

a. Traffic management measures to maintain traffic capacity or minimise the impact on traffic capacity during weekdays and weekends;

b. Methods to manage the effects of the delivery of construction material, plant and machinery;

c. Measures to maintain existing vehicle access to property where practicable, or to provide alternative access arrangements;

d. Measures to maintain pedestrian and cyclist movements and reduce the impact on mobility impaired users on roads and footpaths adjacent to the construction works. Such access shall be safe, clearly identifiable and seek to minimise significant detours;

and, where relevant:

e. Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

f. Measures to manage any potential effects on children at / around education facilities;

g. Measures to manage any potential construction traffic related effects on pedestrians and/or traffic associated with large-scale events in parks and reserves;

h. Any proposed monitoring to measure the impact of the works on traffic and the impact of the traffic management measures. If safety or operational issues are evident, measures to be implemented to address these issues;

i. Measures to manage the proposed access to the site should access be unable to cater for two way traffic passing at the same time, and in particular to minimise reverse movements and blocking of the road; and

j. The availability of on-street and off-street parking if the designated site is unable to accommodate all contractor parking. This will include an assessment of available parking (if any) for contractors on street and identify measures to meet and/or reduce contractor parking demand should it be found that there is insufficient on-street parking to meet this demand.

25. The TMP shall be consistent with the New Zealand Transport Agency Code of Practice for Temporary Traffic Management that applies at the time of construction.

26. Any damage in the road corridor directly caused by heavy vehicles entering or exiting the construction site shall be repaired as soon as practicable or within a timeframe agreed with Auckland Transport.

Site Access

27. The use of land identified as areas (2) and (3) on Drawing CSO-NOR-6 included as Attachment 1 of the Notice of Requirement shall be limited to construction access only. In the event that a rail line is constructed in these areas prior to the implementation of works authorised by the designation, an alternative route shall be established for access to the CSO Collector Sewer construction site, unless otherwise agreed with the owner of the land occupied by the rail line and the operator of the rail line.

28. No permanent wastewater infrastructure is to be constructed in areas (2) and (3) on Drawing CSO-NOR-6 included as Attachment 1 of the Notice of Requirement unless a specific approval to do so has been granted by the owner of that land.

Pedestrian Management

29. Where construction works impact on existing pedestrian or cycle ways, alternative access shall be provided. Any temporary accessways shall be designed as far as practicable in accordance with Crime Prevention Through Environmental Design principles and provide appropriate lighting and signage where necessary.

Construction Hours

30. Construction hours shall be as follows, except where work is necessary outside the specified days or hours for the purposes specified in Condition 31 below.

a. Microtunnelling and trenching activities – this work shall generally occur during normal working hours, 7 am to 6 pm, Monday to Friday and 8 am to 6 pm Saturday, except that, the Requiring Authority may undertake microtunnelling works 24 hours a day 7 days a week (or alternative extended hours) to meet construction demands, provided that construction work can be managed to meet construction traffic, noise and vibration conditions of this designation.

b. General site activities – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday.

c. Truck movements – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday.

31. Purposes for which work may occur outside of the specified days or hours are:

a. where, due to unforeseen circumstances, it is necessary to complete an activity that has commenced;

b. where work is specifically required to be planned to be carried out at certain times e.g. to tie into the existing network during periods of low flow.

c. for delivery of large equipment or special deliveries required outside of normal hours due to traffic management requirements;

d. in cases of emergency;

e. for securing of the site or removing a traffic hazard; and/or

f. for any other reason specified in the CMP or TMP.

Where any work is undertaken pursuant to paragraphs (a) – (f), the Consent Holder shall, within five working days of the commencement of such work, provide a report to Council detailing how the work was authorised under those paragraphs.

Community Information and Liaison

32. The Requiring Authority shall prepare a Communications Plan (CP) for the construction phase of the Project, and submit the plan in accordance with Condition 8, setting out:

- a. the method(s) of consultation and liaison with key stakeholders and the owners/occupiers of neighbouring properties regarding the likely timing, duration and effects of works.
- b. details of prior consultation or community liaison undertaken with the parties referred to in (a) above, including outlining any measures developed with such persons or groups to manage or to mitigate any adverse effects or inconvenience that may arise; and
- c. full contact details for the person appointed to manage the public information system and be the point of contact for related enquiries.

Tree Management

33. The Requiring Authority shall provide details in the CMP as to how the potential impacts of construction on trees and vegetation will be managed. The following matters shall be included:

- a. Identification of trees to be protected, pruned, removed, or transplanted and procedures for marking these out on site.
- b. Procedures for identifying and protecting significant trees to be retained where works occur in the dripline of such trees as identified by a suitably qualified person.

Archaeology and Heritage

34. A Cultural and Archaeological Management Plan ("CAMP") shall be prepared for the Project in consultation with tangata whenua (as listed in the report referenced in Condition 1(a)) and Auckland Council. The purpose of the CAMP is to identify areas of potential cultural and archaeological significance and to establish methods, such as further archaeological investigation prior to works or monitoring by tangata whenua during works, at sites having potential archaeological and cultural significance. The CAMP shall also include the Accidental Discovery Protocol required by Condition 35.

35. Detailed protocols for the management of archaeological and waahi tapu discoveries shall be developed by the Requiring Authority in consultation with tangata whenua, the New Zealand Historic Places Trust, and Auckland Council prior to construction. These detailed protocols shall confirm the names and contact details for tangata whenua, the New Zealand Historic Places Trust and the Council to be contacted in accordance with Condition 36.

36. If any archaeological sites, including human remains are exposed during site works then the following procedures shall apply:

- a. immediately after it becomes apparent that an archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;

b. the Requiring Authority shall immediately secure the area so that any artefacts or remains are untouched; and

c. the Requiring Authority shall notify tangata whenua, the New Zealand Historic Places Trust and the Council (and in the case of human remains, the New Zealand Police) as soon as practicable and advise those parties that an archaeological site has been exposed so that appropriate action can be taken. Works shall not recommence in the immediate vicinity of the archaeological site until approval is obtained from the New Zealand Historic Places Trust.

Site Reinstatement

37. Prior to commencement of works on the designated land, the Requiring Authority shall prepare a Reinstatement Plan for the site, in consultation with the landowner. The plan shall include:

a. any existing structures or features on the site to be protected during works or reinstated on completion of works;

b. the location and design of permanent wastewater infrastructure to remain at the site including the design of lid structures and chamber covers;

c. the location and design of permanent access to the wastewater infrastructure. As far as practicable, permanent all-weather access for heavy vehicles shall minimise areas of new impermeable surfaces. In open space areas, the use of grass cell, or similar, shall be preferred;

d. details of proposed landscaping and planting, including implementation and maintenance programmes;

e. details of the restoration of park infrastructure to at least the same standards and specifications as existing at the time of the works; and

f. reinstatement of all pedestrian linkages and walkways affected by construction.

38. The Reinstatement Plan shall be designed to integrate as far as practicable with relevant park development and management plans of the Council, the Auckland Design Manual - Parkland Design Guidelines (Draft 2013) or final approved or updated version of these guidelines, and designed in accordance with Crime Prevention Through Environmental Design principles.

39. When contractors' yards or other temporary works areas are no longer required for any construction or operational purpose, site works, including site offices, storage and equipment sheds, fencing and hard stand areas shall be removed and the area reinstated in accordance with Conditions 37 and 38.

Attachments

No attachments.

9464 Moa Reserve Pump Station

Designation Number	9464
Requiring Authority	Watercare Services Ltd
Location	Moa Reserve, Point Chevalier
Rollover Designation	Yes
Legacy Reference	Designation C05-27, Auckland Council District Plan (Isthmus Section) 1999
Lapse Date	15 years from when the circumstances in section 175(1) of the Resource Management Act 1991 apply

Purpose

Wastewater Purposes, Combined Sewer Overflow (CSO) Collector Sewers.

Conditions

General Conditions

1. Except as modified by the conditions below and subject to final design, the works shall be undertaken in general accordance with the information provided by the Requiring Authority in the Notice of Requirement dated August 2012 and supporting documents being:
 - a. Assessment of Effects on the Environment Part A titled "Combined Sewer Overflow Collector Sewers – Resource Consent Applications and Assessment of Effects on the Environment" prepared by Watercare / Central Interceptor Team, dated 10 August 2012, reference 60102004.
 - b. Assessment of Effects on the Environment Part B – Drawing Set, prepared by Watercare / Central Interceptor Team dated August 2012 (all drawings dated 26 July 2012).
 - c. Assessment of Effects on the Environment Part C: Technical Reports (TR) as listed below:
 - i. TR A: Traffic Impact Assessment, prepared by Traffic Design Group, dated 7 August 2012;
 - ii. TR B: Noise Impact Assessment, prepared by Marshall Day Acoustics, dated 23 July 2012;
 - iii. TR C: Vibration Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 27993;
 - iv. TR D: Ground Contamination Assessment, prepared by Tonkin & Taylor Limited, dated July 2012, reference 26145.401;
 - v. TR E: CSO Settlement Study, prepared by Tonkin & Taylor Limited, dated July 2012, reference 21645.32;
 - vi. TR F: Archaeological Assessment, prepared by Clough & Associates Ltd, dated August 2012;
 - vii. TR G: Erosion and Sediment Control Plan, prepared by SKM, dated 5 June 2012;
 - viii. TR H: Arboricultural Assessment, prepared by Arborlab Consultancy Services Limited, dated 30 July 2012, reference 17967.

- d. Section 92 Response Report to Auckland Council, dated December 2012.
- e. Section 92 Response Report to Auckland Council, cover letter dated 1 March 2013 including the following attachment:
 - i. "Central Interceptor Combined Sewer Overflow Works – Groundwater and surface settlement effects assessment – Technical response to Auckland Council Section 92 queries", letter from Tonkin and Taylor Limited, dated 1 March 2013.

2. As soon as practicable following completion of commissioning of the Combined Sewer Overflow Collector Sewers Project and associated works ("the Project), the Requiring Authority shall, in consultation with the Auckland Council ("the Council"):

- a. review the extent of the area designated for the Project;
- b. identify any areas of designated land that are no longer necessary for the ongoing operation, maintenance, renewal and protection of the wastewater infrastructure;
- c. give notice to the Council in accordance with Section 182 of the Resource Management Act 1991 for the removal of those parts of the designation identified in (b) above which are not required for the long term operation and maintenance of the wastewater infrastructure; and
- d. provide as-built plans to the Council.

3. A liaison person shall be appointed by the Requiring Authority for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the designation and construction work. The liaison person's name and contact details shall be advised to affected parties by the Requiring Authority. This person must be reasonably available for on-going consultation on all matters of concern to affected persons arising from the Project. If a liaison person will not be available for any reason, an alternative contact person shall be nominated to ensure that a Project contact person is available by telephone 24 hours per day seven days per week during the construction phase.

4. The designation shall lapse on the expiry of a period of 15 years after the date it is included in the District Plan in accordance with Section 184(1)(c) of the RMA, unless:

- a. it is given effect to before the end of that period; or
- b. the Council determines, on an application made within 3 months before the expiry of that period, that substantial progress or effort has been made towards giving effect to the designation and is continuing to be made, and fixes a longer period for the purposes of this subsection.

Outline Plan of Works

5. Except as provided for in Condition 6, the Requiring Authority shall submit an Outline Plan of Works (OPW) for the Project in accordance with Section 176A of the RMA.

6. An OPW need not be submitted if the Council has waived the requirement for an OPW in accordance with Section 176A(2)(c) of the RMA.

7. The OPW shall include the following Management Plans:

- a. Construction Management Plan (CMP);
- b. Traffic Management Plan (TMP);

- c. Communications Plan (CP);
- d. Construction Noise and Vibration Management Plan (CNVMP); and
- e. Cultural and Archaeological Management Plan (CAMP).

Construction

8. The Requiring Authority shall prepare a Construction Management Plan (CMP) for the proposed works. The purpose of the CMP is to set out the detailed management procedures and construction methods to be undertaken in order to avoid, remedy or mitigate potential adverse effects arising from construction activities. The CMP shall be provided to the Council with the OPW.

9. The CMP required by Condition 8 above shall include specific details relating to the management of all construction activities within the site, including:

- a. Details of the site or project manager and the construction liaison person identified in Condition 3, including their contact details (phone, postal address, email address);
- b. An outline construction programme;
- c. The proposed hours of work;
- d. Measures to be adopted to maintain the land affected by the works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar construction activities;
- e. Location of site infrastructure including site offices, site amenities, contractors yards site access, equipment unloading and storage areas, contractor car parking, and security;
- f. Procedures for controlling sediment run-off, dust and the removal of soil, debris, demolition and construction materials (if any) from public roads or places adjacent to the work site;
- g. Procedures for ensuring that residents, road users and businesses in the immediate vicinity of construction areas are given prior notice of the commencement of construction activities and are informed about the expected duration and effects of the works;
- h. Means of providing for the health and safety of the general public;
- i. Procedures for the management of works which directly affect or are located in close proximity to existing network utility services;
- j. Procedures for responding to complaints about construction activities;
- k. Procedures for the refuelling of plant and equipment;
- l. A Construction Noise and Vibration Management Plan (CNVMP) containing measures to address the management of noise and vibration as identified in Conditions 11 - 21;
- m. Measures for the protection of and management of trees as identified in Condition 33;
- n. Measures to address Crime Prevention Through Environmental Design issues within and around the construction site;
- o. Measures for dealing with archaeological remains as identified in Conditions 34 - 36.

10. The CMP shall be implemented and maintained throughout the entire construction period to manage potential adverse effects arising from construction activities to the greatest practicable extent. The CMP or any specific component of the CMP shall be updated as necessary and provided to the Council in accordance with Condition 8.

Construction Noise and Vibration

11. A Construction Noise and Vibration Management Plan (CNVMP) shall be prepared, either as part of the CMP or as a standalone plan, and shall be prepared by a suitably qualified person. The CNVMP shall be submitted to the Council with the relevant OPW to which it relates.

12. Construction noise shall be measured and assessed in accordance with NZS6803:1999 Acoustics – Construction Noise, and shall comply with the following noise limits, unless varied in accordance with Condition 15:

Time and Day	Noise Limits	
	LAeq dB	LAmx
Monday to Saturday 0730 - 1800	70	85
At all Other Times and Public Holidays	45	75

13. Construction works which exceed a level of LAeq 45dB at the most exposed receiver(s) are restricted to between 0730 to 1800 on weekdays and Saturdays, with no noisy works permitted on Sundays and Public Holidays. The CNVMP shall define which activities will comply with a limit of LAeq 45dB and can therefore be undertaken outside of these hours in compliance with Condition 29.

14. The CNVMP shall as a minimum, address the following aspects with regard to construction noise:

- a. a description of noise sources, including machinery, equipment and construction techniques to be used;
- b. predicted construction noise levels;
- c. hours of operation, including times and days when noisy construction work and blasting would occur in compliance with Condition 13;
- d. physical noise mitigation measures, including limiting the use of tonal reverse alarms during night-time works, maintenance of access roads (to ensure they are smooth), acoustic screening around the site, plant selection and maintenance procedures, and site layout;
- e. construction noise criteria for any specific areas and sensitive receivers such as schools, child care centres, medical or aged care facilities;
- f. the identification of activities and locations that will require the design of specific noise mitigation measures;
- g. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed noise management measures and any feedback received from those stakeholders, along with the noise management measures that will be adopted based on this consultation;
- h. methods for monitoring and reporting on construction noise;

- i. methods for receiving and responding to complaints about construction noise; and
- j. construction operator training procedures.

15. Where a CNVMP predicts that noise levels from a particular activity will or will likely exceed the noise limits set out in Condition 12, or where noise measurements show that compliance is not being achieved, the Requiring Authority shall prepare and submit for the approval of the Council an Activity Specific Noise Management Plan (ASNMP). The ASNMP(s) shall be submitted to the Council for review and approval at least 7 working days prior to the proposed works commencing.

Activities that exceed the limits in Condition 12 may only be undertaken subject to an approved ASNMP between Monday to Friday (inclusive) and not on Saturdays, Sundays or Public Holidays.

Works subject to the ASNMP(s) shall not commence until approval is received from the Council. If monitoring shows that levels specified in an ASNMP are being exceeded, work generating the exceedance shall stop and not recommence until further mitigation is implemented in accordance with an amended ASNMP approved by the Council.

In addition to the requirements of Condition 14, an ASNMP must:

- a. Describe the activity (including duration), plant and machinery that is expected not to comply with the noise limits in Condition 12;
- b. Describe the mitigation measures proposed to reduce the noise levels as far as practicable, including any options that have been discounted due to cost or any other reason;
- c. Provide predicted noise levels for all receivers where the noise levels will not be compliant with the limits in Condition 12, including the effect of mitigation specified in Condition 14(b) above;
- d. Provide a set of noise limits that are Activity – Specific;
- e. Describe the noise monitoring that will be undertaken to determine compliance with the Activity – Specific noise limits; and
- f. Describe any additional noise mitigation measures that may be implemented to maintain compliance with Activity Specific noise limits.

16. The CNVMP shall also describe measures adopted to meet the requirements of German Standard DIN4150-3:1999 and, as a minimum, address the following aspects with regard to construction vibration:

- a. vibration sources, including machinery, equipment and construction techniques to be used;
- b. preparation of building condition reports on 'at risk' buildings prior to, during and after completion of works, where for the purposes of this condition an 'at risk' building is one at which the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded.
- c. use of building condition surveys to determine the sensitivity of the building(s) on the adjacent sites to ground movement in terms of the Line 1-3 criteria of the DIN standard;
- d. provision for the determination of buildings that require post-condition surveys to be undertaken following commencement of blasting or piling;
- e. identification of any particularly sensitive activities in the vicinity of the proposed works (e.g. commercial activity using sensitive equipment such as radiography or mass-spectrometry), along with

details of consultation undertaken with the landowners of the sites where the sensitive activities are located and any management measures that will be adopted based on this consultation;

f. the consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed vibration management measures and any feedback received from those stakeholders, along with the vibration management measures that will be adopted based on this consultation;

g. methods for monitoring and reporting on construction vibration, including specification of continuous monitoring for receivers and activities where the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded or described as subject to moderate or greater risk in Table 9.1 of the report entitled Central Interceptor Project – Vibration Assessment for Combined Sewer Overflows Tonkin & Taylor Limited (July 2012); and

h. methods for receiving and responding to complaints about construction vibration.

17. Air overpressure levels from blasting shall comply with the following limits, measured and assessed in accordance with AS2187.2-2006 Explosives – Storage and Use Part 2: Use of Explosives:

a. For buildings that are not occupied for any blast event, the air overpressure limit shall be 133 dBZ L_{peak} unless agreement is reached in writing with the owner(s) (in conjunction with a building pre-condition survey) that a higher limit may apply; and

b. For buildings that are occupied for any blast event, and where there are less than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 128 dBZ L_{peak}; and

c. For buildings that are occupied for any blast event, and where there are more than 20 blast events to be undertaken on the site over the entire project, the air overpressure limit shall be 120 dBZ L_{peak}.

Note: A blast event may comprise the detonation of one or more charges in a period not exceeding three seconds.

18. The Guideline vibration limits set out in DIN 4150-3:1999 must be complied with for all blast events and all construction activities at all buildings and infrastructure not owned by the Requiring Authority unless varied in accordance with Condition 19.

19. The Guideline vibration limits set out in DIN4150-3:1999 must not be exceeded except where the Requiring Authority can demonstrate to the satisfaction of the Council:

a. that the receiving building(s) are capable of withstanding higher levels of vibration and what the new vibration limit is. The investigation required to demonstrate this must include an assessment of the building(s) by a suitably experienced and qualified structural engineer and a full pre-condition survey; and

b. that the Requiring Authority has obtained the written agreement of the building owner(s), that a higher limit may be applied.

20. Construction works undertaken between the hours of 10pm and 7am shall at times comply with a vibration velocity limit of 0.3mms⁻¹ when measured at any part of the floor of any bedroom or habitable room of a residential dwelling. Vibration measurements to determine compliance with this limit are only required to be undertaken where a complaint is received by an occupant of any dwelling.

21. The CNVMP shall be implemented and maintained throughout the entire construction period. The CNVMP shall be updated when necessary and any updated CNVMP shall be submitted to the Council in accordance with Condition 8.

Operational Noise

22. The noise arising from any operational activities undertaken on the designated land shall not exceed the applicable noise limits set out in the Auckland Council District Plan (Auckland City Isthmus Section) or any new proposed or operative plan that has effect at the time of the works.

Traffic Management

23. A detailed Traffic Management Plan (TMP) shall be prepared for the Project, by a suitably qualified person.

24. The TMP shall describe the measures that will be taken to avoid, remedy or mitigate the traffic effects associated with construction of the Project. In particular, the TMP shall describe:

a. Traffic management measures to maintain traffic capacity or minimise the impact on traffic capacity during weekdays and weekends;

b. Methods to manage the effects of the delivery of construction material, plant and machinery;

c. Measures to maintain existing vehicle access to property where practicable, or to provide alternative access arrangements;

d. Measures to maintain pedestrian and cyclist movements and reduce the impact on mobility impaired users on roads and footpaths adjacent to the construction works. Such access shall be safe, clearly identifiable and seek to minimise significant detours;

and, where relevant:

e. Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

f. Measures to manage any potential effects on children at / around education facilities;

g. Measures to manage any potential construction traffic related effects on pedestrians and/or traffic associated with large-scale events in parks and reserves;

h. Any proposed monitoring to measure the impact of the works on traffic and the impact of the traffic management measures. If safety or operational issues are evident, measures to be implemented to address these issues;

i. Measures to manage the proposed access to the site should access be unable to cater for two way traffic passing at the same time, and in particular to minimise reverse movements and blocking of the road; and

j. The availability of on-street and off-street parking if the designated site is unable to accommodate all contractor parking. This will include an assessment of available parking (if any) for contractors on street and identify measures to meet and/or reduce contractor parking demand should it be found that there is insufficient on-street parking to meet this demand.

25. The TMP shall be consistent with the New Zealand Transport Agency Code of Practice for Temporary Traffic Management that applies at the time of construction.

26. Any damage in the road corridor directly caused by heavy vehicles entering or exiting the construction site shall be repaired as soon as practicable or within a timeframe agreed with Auckland Transport.

27. Access from Kanuka Street shall be permitted only in the case that access from Moa Road is not practicable. Should this be the case, the Requiring Authority shall provide the Council with the reasons for the required use of Kanuka Street. The Kanuka Street access will only operate as a left in, left out access to help ensure safe movements around the roundabout. Prior to the use of the Kanuka Street access the Requiring Authority shall confirm that there is sufficient road width and/or parking restrictions to accommodate heavy vehicle movements to and from the access.

Pedestrian Management

28. Where construction works impact on existing pedestrian or cycle ways, alternative access shall be provided. Any temporary accessways shall be designed as far as practicable in accordance with Crime Prevention Through Environmental Design principles and provide appropriate lighting and signage where necessary.

Construction Hours

29. Construction hours shall be as follows, except where work is necessary outside the specified days or hours for the purposes specified in Condition 31 below.

a. Microtunnelling and trenching activities – this work shall generally occur during normal working hours, 7 am to 6 pm, Monday to Friday and 8 am to 6 pm Saturday, except that, the Requiring Authority may undertake microtunnelling works 24 hours a day 7 days a week (or alternative extended hours) to meet construction demands, provided that construction work can be managed to meet construction traffic, noise and vibration conditions of this designation.

b. General site activities – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday.

c. Truck movements – 7 am to 6 pm, Monday to Friday, 8 am to 6 pm Saturday, except as identified in Condition 30.

30. Truck movements are restricted from entering and exiting the site in proximity to schools and colleges between 8:15am and 9:15am and 2:45pm and 3:15pm Monday to Friday during school and college term times.

31. Purposes for which work may occur outside of the specified days or hours are:

a. where, due to unforeseen circumstances, it is necessary to complete an activity that has commenced;

b. where work is specifically required to be planned to be carried out at certain times e.g. to tie into the existing network during periods of low flow.

c. for delivery of large equipment or special deliveries required outside of normal hours due to traffic management requirements;

d. in cases of emergency;

e. for securing of the site or removing a traffic hazard; and/or

f. for any other reason specified in the CMP or TMP.

Where any work is undertaken pursuant to paragraphs (a) – (f), the Consent Holder shall, within five working days of the commencement of such work, provide a report to Council detailing how the work was authorised under those paragraphs.

Community Information and Liaison

32. The Requiring Authority shall prepare a Communications Plan (CP) for the construction phase of the Project, and submit the plan in accordance with Condition 8, setting out:

- a. the method(s) of consultation and liaison with key stakeholders and the owners/occupiers of neighbouring properties regarding the likely timing, duration and effects of works.
- b. details of prior consultation or community liaison undertaken with the parties referred to in (a) above, including outlining any measures developed with such persons or groups to manage or to mitigate any adverse effects or inconvenience that may arise; and
- c. full contact details for the person appointed to manage the public information system and be the point of contact for related enquiries.

Tree Management

33. The Requiring Authority shall provide details in the CMP as to how the potential impacts of construction on trees and vegetation will be managed. The following matters shall be included:

- a. Identification of trees to be protected, pruned, removed, or transplanted and procedures for marking these out on site.
- b. Procedures for identifying and protecting significant trees to be retained where works occur in the dripline of such trees as identified by a suitably qualified person.

Archaeology and Heritage

34. A Cultural and Archaeological Management Plan ("CAMP") shall be prepared for the Project in consultation with tangata whenua (as listed in the report referenced in Condition 1(a)) and Auckland Council. The purpose of the CAMP is to identify areas of potential cultural and archaeological significance and to establish methods, such as further archaeological investigation prior to works or monitoring by tangata whenua during works, at sites having potential archaeological and cultural significance. The CAMP shall also include the Accidental Discovery Protocol required by Condition 35.

35. Detailed protocols for the management of archaeological and waahi tapu discoveries shall be developed by the Requiring Authority in consultation with tangata whenua, the New Zealand Historic Places Trust, and Auckland Council prior to construction. These detailed protocols shall confirm the names and contact details for tangata whenua, the New Zealand Historic Places Trust and the Council to be contacted in accordance with Condition 36.

36. If any archaeological sites, including human remains are exposed during site works then the following procedures shall apply:

- a. immediately after it becomes apparent that an archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;

b. the Requiring Authority shall immediately secure the area so that any artefacts or remains are untouched; and

c. the Requiring Authority shall notify tangata whenua, the New Zealand Historic Places Trust and the Council (and in the case of human remains, the New Zealand Police) as soon as practicable and advise those parties that an archaeological site has been exposed so that appropriate action can be taken. Works shall not recommence in the immediate vicinity of the archaeological site until approval is obtained from the New Zealand Historic Places Trust.

Site Reinstatement

37. Prior to commencement of works on the designated land, the Requiring Authority shall prepare a Reinstatement Plan for the site, in consultation with the landowner. The plan shall include:

a. any existing structures or features on the site to be protected during works or reinstated on completion of works;

b. the location and design of permanent wastewater infrastructure to remain at the site including the design of lid structures and chamber covers;

c. the location and design of permanent access to the wastewater infrastructure. As far as practicable, permanent all-weather access for heavy vehicles shall minimise areas of new impermeable surfaces. In open space areas, the use of grass cell, or similar, shall be preferred;

d. details of proposed landscaping and planting, including implementation and maintenance programmes;

e. details of the restoration of park infrastructure to at least the same standards and specifications as existing at the time of the works; and

f. reinstatement of all pedestrian linkages and walkways affected by construction.

38. The Reinstatement Plan shall be designed to integrate as far as practicable with relevant park development and management plans of the Council, the Auckland Design Manual - Parkland Design Guidelines (Draft 2013) or final approved or updated version of these guidelines, and designed in accordance with Crime Prevention Through Environmental Design principles.

39. When contractors' yards or other temporary works areas are no longer required for any construction or operational purpose, site works, including site offices, storage and equipment sheds, fencing and hard stand areas shall be removed and the area reinstated in accordance with Conditions 37 and 38.

Attachments

No attachments.

9465 Kohimarama Wastewater Storage Tank

Designation Number	9465
Requiring Authority	Watercare Services Ltd
Location	6 Baddeley Avenue, Kohimarama. Madills Farm Recreation Reserve (in part).
Rollover Designation	Yes
Legacy Reference	Designation C14-11, Auckland Council District Plan (Auckland City Council Isthmus Section 1999)
Lapse Date	15 years from when the circumstances in section 175(1) of the Resource Management Act 1991 apply

Purpose

Kohimarama Wastewater Storage Tank.

Conditions

General Conditions

1. Except as modified by the following conditions, the works shall be undertaken in general accordance with the information provided by the Requiring Authority in the Notice of Requirement dated July 2013 and supporting report and supplementary information provided as further information. This information is summarised as follows:

a. "Assessment of Effects on the Environment – Kohimarama Wastewater Storage Tank and Branch Sewer Upgrade", dated July 2013.

b. The drawings referenced as:

Plan Title	Reference / DWG No.	Architect / Author	Revision/ Issue
Kohimarama Branch Diversion Sewer Working Area – Overall Site Layout	2010146.002	Watercare	E
Kohimarama Branch Diversion Sewer Working Areas – Enlargement Sheet 1 of 2	2010146.003	Watercare	E
Kohimarama Branch Diversion Sewer Working Areas – Enlargement Sheet 2 of 2	2010146.004	Watercare	E
Kohimarama Branch Diversion Sewer Diversion Sewer Pipeline – Sheet Layout	2010146.007	Watercare	D
Kohimarama Branch Diversion Sewer - Southern Cross Road Pipeline Plan and Long Section	2010146.008	Watercare	D
Kohimarama Branch Diversion Sewer – Allum Street Pipeline Plan and Long Section	2010146.009	Watercare	D

Kohimarama Branch Diversion Sewer – Madills Farm Reserve Pipeline Plan and Long Section	2010146.010	Watercare	D
Kohimarama Branch Diversion Sewer – Sage Road Pipeline Plan and Long Section	2010146.011	Watercare	D
Kohimarama Branch Diversion Sewer – Outfall Overflow Pipeline Plan and Long Section	2010146.012	Watercare	D
Kohimarama Branch Diversion Sewer – Building Connection Pipeline Plan and Long Section	2010146.015	Watercare	D
Kohimarama Branch Diversion Sewer – Sanitary Sewer Overflow Chamber General Arrangement Sheet 1 of 2	2010146.016	Watercare	D
Kohimarama Branch Diversion Sewer – Sanitary Sewer Overflow Chamber General Arrangement Sheet 2 of 2	2010146.017	Watercare	D
Kohimarama Branch Diversion Sewer – Outfall General Arrangement	2010146.018	Watercare	E
Kohimarama Branch Diversion Sewer – Speed Table Site Plan	2010146.021	Watercare	B
Kohimarama Branch Diversion Sewer – Working Area Proposed Erosion and Sediment Control Plan	Z1962100-01-001-G010	Watercare	A

c. Further information (as it relates to the Notice of Requirement only)

i. Letter dated 16 August 2013 from Jess Urquhart, Watercare.

ii. Email dated 8 August 2013 from Jess Urquhart, Watercare.

iii. Email dated 23 August 2013 from Jess Urquhart, Watercare – including Additional Noise Assessment titled “Madills Farm Reserve – Alternative Piling Methods” from Marshall Day Acoustics dated 23 August 2013.

iv. Email dated 2 September 2013 from Jess Urquhart, Watercare – Kohimarama Open Day Minutes dated 21 August 2013

v. Email dated 3 September 2013 from Jess Urquhart, Watercare – Further earthworks information.

2. The Requiring Authority shall be exempt from providing an Outline Plan of Works for the project shown on the information referred to in condition 1, as provided for in section 176A (2)(a) and (b) of the Resource Management Act 1991 (“the Act”).

Construction Management Plan

3. Prior to works commencing on the site, the Requiring Authority shall provide the Council with a copy of a finalised Construction Management Plan (“CMP”). The CMP shall address, but is not limited to, the following items:

- i. Finalised Erosion and Sediment Control Plan
- ii. Finalised Construction Traffic Management Plan
- iii. Construction Noise and Vibration Management Plan
- iv. Dust Management measures
- v. Health and Safety measures including any fences and security around the site compound
- vi. Management of stormwater runoff from the site
- vii. The location of temporary activities (including buildings) and storage of equipment
- viii. Management of existing network utilities

The CMP shall be prepared to the satisfaction of the Auckland Council Team Leader Compliance and Monitoring - Central in consultation with the Natural Resources and Specialist Input Unit (“NRSI”), Earthworks.

Construction Noise

4. A Construction Noise and Vibration Management Plan (“CNVMP”) shall be prepared for the works by an appropriately qualified person. The CNVMP shall be submitted to the Council for approval prior to commencement of works on the site. The CNVMP shall be prepared in accordance with the requirements of the report entitled Watercare Madills Farm Reserve Assessment of Noise & Vibration Effects (Rp 001 2013131A) by Marshall Day Acoustics 8th July 2013. The approved CNVMP shall be implemented and maintained throughout the entire construction period. The CNVMP shall be updated when necessary and any update to the CNVMP shall be submitted to the Council for prior approval.

5. Construction noise shall be measured and assessed in accordance with the New Zealand Standard NZS6803:1999 Acoustics – Construction Noise, and shall comply with the following noise limits:

Time and Day	Noise Limits	
	LAeq dB	LAmx
Monday to Friday 0700 - 0730	55	75
Monday to Saturday 0730 - 1800	70	85
At all Other Times and Public Holidays	45	75

6. Construction works which exceed a level of LAeq 45dB at the most exposed receiver(s) are restricted to between 0730 to 1800 on weekdays and Saturdays, with no noisy works permitted on Sundays or public holidays. The CNVMP shall define which activities will comply with a limit of LAeq 45dB and can therefore be undertaken outside of these hours.

7. The CNVMP shall, as a minimum, address the following aspects with regard to construction noise:

- a. A description of noise sources, including machinery, equipment and construction techniques to be used;
- b. Predicted construction noise levels;
- c. Hours of operation, including times and days when noisy construction work would occur;

- d. Physical noise mitigation measures, including restricted use of tonal reverse alarms, maintenance of access roads (to ensure they are smooth), acoustic screening around the site, plant selection and maintenance procedures, and site layout;
 - e. Identification of activities and locations that will require the design of specific noise mitigation measures, specifically including piling methods;
 - f. Methods for monitoring and reporting on construction noise;
 - g. Methods for receiving and responding to complaints about construction noise;
 - h. Construction operator training procedures;
 - i. Management of the early arrival of trucks (prior to 07:30) to the site to ensure that parking and waiting outside the site proximate to residential receivers is avoided as far as practicable.
8. The CNVMP shall also describe measures to be adopted to meet the requirements of the vibration standard DIN4150-3:1999, and as a minimum shall address the following aspects with regard to construction vibration:
- a. Vibration sources, including machinery, equipment and construction techniques to be used;
 - b. Methods for monitoring and reporting on construction vibration, including specification of continuous monitoring for receivers and activities where the levels in the German Standard DIN4150-3: 1999 are likely to be approached or exceeded;
 - c. Methods for receiving and responding to complaints about construction vibration.
9. The vibration limits in DIN 4150-3:1999 must be complied with for all construction activities at all buildings and infrastructure not owned by the Requiring Authority.

Traffic Management

10. A Construction Traffic Management Plan (“CTMP”) is submitted to and approved by the Council prior to any physical work commencing on the site. This is to include the route from which vehicles are expected to approach the site and contain measures indicating how and when deliveries will be controlled to ensure that two trucks are not using the same access at the same time. It is also to include the maximum number of staff and vehicles on the site at each stage of the project and show enough on-site parking spaces to accommodate that number of vehicles.
11. Heavy vehicle deliveries to the site are prohibited at peak school drop-off and pickup times, between 8:30 and 9:00 and between 14:45 and 15:30.
12. All parking associated with the construction work must occur on the site and no use of on-street parking is permitted by contractors or workers.

Construction Hours

13. All construction work, including demolition and any noisy activities in the vicinity of the site associated with the proposed works, shall be carried out generally between the hours of 07:00a.m and 18:00p.m Mondays to Saturdays. No such work may be carried out on Sundays or public holidays. The type of construction work carried out between the hours of 7:00am and 7:30am is restricted by the lower noise limit specified in condition 5.

Operational Noise

14. The noise arising from any operational activities undertaken on the designated land shall generally not exceed the following noise limits when measured at or within the boundary of any site zoned Residential as follows:

Time period	Noise Limits
0700 - 2200 hours	50 dB LAeq
2200 - 0700 hours	40 dB LAeq
	75 dB LAeq

Archaeology and Heritage

15. If any archaeological site or items, including human remains (koiwi), are exposed during the works then the following procedures shall apply:

- a. Immediately after it becomes apparent that an archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
- b. The Requiring Authority shall immediately secure the area so that any artefacts and/or remains are untouched; and
- c. The Requiring Authority shall notify the New Zealand Historic Places Trust, tangata whenua and the Auckland Council (and in the case of human remains, the New Zealand Police) as soon as practicable that an archaeological site has been exposed so that appropriate action can be taken. Works shall not recommence in the immediate vicinity of the archaeological site until any approval required from the New Zealand Historic Places Trust has been obtained.

Site Reinstatement

16. When contractors' yards or other temporary works areas are no longer required for any construction or operational purpose on the site, site offices, storage and equipment sheds, fencing and hard stand areas (associated with the project) shall be removed and the area reinstated to at least the standard which existed prior to commencement of the works.

Lapse of designation

17. The designation shall lapse on the expiry of a period of 5 years after the date it is included in the District Plan in accordance with section 184(1)(c) of the Act unless:

- a. it is given effect to before the end of that period; or
- b. the Council determines, on an application made within 3 months before the expiry of that period, that substantial progress or effort has been made towards giving effect to the designation and is continuing to be made, and fixes a longer period for the purposes of the sub-section.

Alteration of designation boundary post-construction

18. Within 20 working days following issue of the practical completion certificate for the proposed storage tank, the Requiring Authority shall give notice to the Council in accordance with section 182 of the Act for removal of those areas of the designation no longer necessary for the construction, on-

going operation, maintenance, and protection of the storage tank. The revised designation boundary shall be consistent with the area shown on the drawing titled “Designation Plan – Post Construction of the Storage Tank” submitted as part of the further information dated 8 August 2013.

Removal of designation C14-03

19. Within 20 working days following issue of practical completion certificate for the proposed storage tank, the Requiring Authority shall give notice to the Council in accordance with section 182 of the Act for removal of designation “C14 03” in the Operative District Plan and designation 9414 in the Proposed Auckland Unitary Plan.

Future works

20. Any future works not shown on the drawings referred to in condition 1 shall require an Outline Plan of Works unless the territorial authority waives the requirement for an Outline Plan of Works as provided for by section 176(2)(c) of the Act.

21. In addition to the information required to be provided by section 176A(3) of the Act, the following shall also be submitted as part of the Outline Plan of Works required by condition 19:

a. Details of consultation with the Manager of Local and Sports Parks – Central, Auckland Council, regarding the location and design of future above-ground infrastructure and the integration of this with the Madills Farm Masterplan dated 5 November 2012;

b. A landscape management plan to establish any above-ground permanent buildings. The landscape management plan shall take account of:

i. the layout, architectural form and detail, and the use of a consistent and appropriate palette of materials to ensure these elements are visually recessive;

ii. the use of materials which are sufficiently robust and which minimise the potential for graffiti and vandalism;

iii. landscaping to integrate the building with the surrounding environment.

Implementation and maintenance of the approved landscaping shall be the responsibility of the Requiring Authority.

22. If Auckland Council seeks approval under section 176(l)(b) of the Resource Management Act to undertake works as described in the Madills Farm Masterplan (5 November 2012) the Requiring Authority shall not unreasonably withhold approval provided that the park development does not interfere with the construction operation or maintenance of waste water infrastructure and meets all health and safety requirements.

Advice Notes

1. Conditions 1 - 18 need to be read in conjunction with the conditions for resource consents R/REG/2013/2593, R/LUC/2013/2567 and R/REG/2013/4015 for the construction of a 3500m³ wastewater storage tank and associated reticulation.

2. This designation does affect the Requiring Authority’s obligations to obtain all other necessary regional consents and permits, including those which may be required under the Building Act 2004, and to comply with all relevant Council bylaws.

3. Unless the land the subject of this designation is acquired under the Public Works Act, landowner approval to carry out work on the land may be required and the works may be subject to any terms or conditions imposed by the landowner.

Attachments

No attachments.