

Project Approval

Section 75J of the *Environmental Planning and Assessment Act 1979*

I, the Minister for Planning, approve the project referred to in Schedule 1, subject to the conditions in Schedule 2.

These conditions are required to:

- prevent, minimise, and/or offset adverse environmental impacts;
- set standards and performance measures for acceptable environmental performance;
- require regular monitoring and reporting; and
- provide for the ongoing environmental management of the project.

The Hon. Kristina Keneally MP
Minister for Planning

Sydney

2009

File No: 9043378

SCHEDULE 1

Application No:	07_0121
Proponent:	Aquanet Sydney Pty Ltd
Approval Authority:	Minister for Planning
Land:	Land required for the construction and operation of the proposal, including surface infrastructure and pipeline corridor generally within Fairfield, Parramatta, Bankstown and Holroyd Local Government Areas.
Project:	Construction and operation of the Camellia and Rosehill Recycled Water Scheme in Western Sydney which comprises: • recycled water treatment plant, pumping station, water storage tanks and other equipment at North Street, Fairfield; • a connection to the existing Liverpool to Ashfield pipeline; • one elevated surface water storage reservoir at Woodville Golf Course, Barbers Road, Guildford; • two surface reservoirs and one pumping station on Durham Street and Grand Ave, Rosehill; • approximately 20km of water distribution pipelines.
Major Project:	The project is a Major Project under <i>State Environmental Planning Policy (Major Projects) 2005</i> being development for the purpose of sewage and related wastewater treatment plants that has a capital investment value of more than \$30 million (Schedule 1, Group 8, Clause 26).

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SCHEDULE 2

Act, the	<i>Environmental Planning and Assessment Act, 1979.</i>
Conditions of Approval	The Minister's conditions of approval for the project.
Councils	Fairfield City Council, Bankstown City Council, Parramatta City Council and Holroyd City Council.
DECC	Department of Environment and Climate Change.
Department, the	Department of Planning.
Director-General, the	Director-General of the Department of Planning (or delegate).
Director-General's Approval	A written approval from the Director-General (or delegate) where the Director-General's Approval is required under a condition. The Director-General may ask for additional information if the approval request is considered incomplete.
Director-General's Report	The report provided to the Minister by the Director-General of the Department under section 75I of the EP&A Act.
Dust	Any solid material that may become suspended in air or deposited
EA	<i>Rosehill Recycled Water Scheme, Environmental Assessment</i> , prepared by Parsons Brinckerhoff and dated January 2009.
EPL	Environment Protection Licence issued under the <i>Protection of the Environment Operations Act, 1997</i>
Pipelines	The drinking water, recycled water and wastewater pipelines detailed in the EA.
Minister, the	Minister for Planning
Proponent	Aquanet Sydney Pty Ltd (with Jemena Asset Management Pty Ltd acting on behalf of the Proponent)
Publicly Available	Available for inspection by a member of the general public (for example available on an internet site or at a display centre).
Site	Land to which Major Projects Application 07_0121 applies.
Preferred Project Report	<i>Camellia and Rosehill Recycled Water Scheme Preferred Project Report</i> , prepared by Jemena Asset Management and dated 19 March 2009.

1. ADMINISTRATIVE CONDITIONS

Terms of Approval

- 1.1 The Proponent shall carry out the project generally in accordance with the:
- a) Major Project Application 07_0121;
 - b) Rosehill Recycled Water Scheme, Environmental Assessment, prepared by Parsons Brinckerhoff and dated January 2009;
 - c) Camellia and Rosehill Recycled Water Scheme Preferred Project Report, prepared by Jemena Asset Management and dated 19 March 2009;
 - d) Environmental Assessment of the Modification to the Rosehill Recycled Water Project, prepared by Jemena Asset Management and dated 19 March 2009 and supplementary letter to the Department of Planning from Parsons Brinckerhoff Australia Pty Ltd regarding commitments at Woodville reservoir dated 30 March 2010;
 - e) Environmental Assessment of the modification to the Camellia and Rosehill Recycled Water project, prepared by Parsons Brinckerhoff Australia Pty Ltd and dated May 2010 and supplementary letter to the Department of Planning dated 18 June 2010 from Parsons Brinckerhoff Australia Pty Ltd providing additional information on matters considered inadequately addressed;
 - f) Modification assessment and supplementary information provided by letter dated 7th April 2011 from Veolia Water Australia to the Camellia and Rosehill Recycled Water project , and
 - g) the conditions of this approval.
- 1.2 In the event of an inconsistency between:
- a) the conditions of this approval and any document listed from condition 1.1a) to 1.1f) inclusive, the conditions of this approval shall prevail to the extent of the inconsistency; and
 - b) any document listed from condition 1.1a) to 1.1f) inclusive, and any other document listed from 1.1a) to 1.1f) inclusive, the most recent document shall prevail to the extent of the inconsistency.
- 1.2A Notwithstanding anything else in this approval, approval is given for the use of the degasser tower, reverse osmosis permeate collection tank and the filtration (reverse osmosis) building at the heights shown on the Survey Report dated 22 December 2010.
- 1.3 The Proponent shall comply with any reasonable requirement(s) of the Director-General arising from the Department's assessment of:
- a) any reports, plans or correspondence that are submitted in accordance with this approval; and
 - b) the implementation of any actions or measures contained in these reports, plans or correspondence.

Limits of Approval

- 1.4 This project approval shall lapse five years after the date on which it is granted, unless the works the subject of this approval are physically commenced on or before that time.
- 1.5 The peak output operating capacity of the recycled water treatment plant is 25 megalitres per day.

Statutory Requirements

- 1.6 The Proponent shall ensure that all applicable licences, permits and approvals are obtained and maintained as required throughout the life of the project. No condition of this approval removes the obligation for the Proponent to obtain, renew or comply with such licences, permits or

approvals. The Proponent shall ensure that a copy of this approval and all relevant environmental approvals are available on the site at all times during the project.

2. SPECIFIC ENVIRONMENTAL CONDITIONS

Noise Impacts

Vibration Impacts

- 2.1 The Proponent shall meet the requirements of *Assessing Vibration: A Technical Guideline* (DECC, February 2006) during the construction and operation of the project.

Construction Noise

- 2.2 The Proponent shall only undertake construction activities associated with the project that would generate an audible noise at the nearest sensitive receiver and at any residential premises during the following hours:
- a) 7:00 am to 6:00 pm, Mondays to Fridays, inclusive;
 - b) 7:00 am to 1:00 pm on Saturdays; and
 - c) at no time on Sundays or public holidays.

This condition does not apply in the event of a direction from police or other relevant authority for safety reasons, to prevent environmental harm or risk to life.

- 2.3 Notwithstanding condition 2.2 of this approval, the Proponent may undertake construction activities during the following additional periods, provided that those activities are detailed in an approved Construction Noise and Vibration Management Plan (refer to condition 6.3c)):
- a) evening work: 6:00 pm to 10:00 pm, Mondays to Fridays; and
 - b) night-time work: 10:00 pm to 7:00 am, Mondays to Fridays
- 2.4 Notwithstanding conditions 2.2 and 2.3 of this approval, the construction hours specified under those conditions may be varied with the prior written approval of the Director-General. Any request to alter specified construction hours shall be:
- a) considered on a case-by-case basis;
 - b) accompanied by details of the nature and need for activities to be conducted during the varied construction hours; and
 - c) accompanied by any information necessary for the Director-General to reasonably determine that activities undertaken during the varied construction hours will not adversely impact on the acoustic amenity of receivers in the vicinity of the relevant construction site.

Operational Noise

- 2.5 The Proponent shall design, construct, operate and maintain the project to ensure that the noise contributions from the project to the background acoustic environment do not exceed 40 dB(A) (measured as $L_{Aeq(15\text{-minute})}$) at the most-affected residential receiver. This maximum allowable noise contribution applies under wind speeds up to 3 ms^{-1} (measured at 10 metres above ground level), and under temperature inversion conditions of up to $3 \text{ }^{\circ}\text{C}/100 \text{ metres}$.

Air Quality Impacts

Dust Generation

- 2.6 The Proponent shall construct and operate the project in a manner that minimises dust emissions from the site, including wind-blown and traffic-generated dust. All activities on the site shall be undertaken with the objective of preventing visible emissions of dust from the site, including the following:
- a) staged construction work to expose only one area at a time, where practical;
 - b) stabilisation of exposed areas as soon as possible following completion of construction works; and
 - c) scheduling of work to avoid generation of dust during unfavourable meteorological conditions.

- 2.7 Should visible dust emissions occur at any time, the Proponent shall identify and implement all practicable dust mitigation measures, including cessation of relevant works, as appropriate, such that emissions of visible dust cease.

Odour

- 2.8 The Proponent shall not cause or permit the emission of offensive odours from the site in accordance with the provisions of Section 129 of the *Protection of the Environment Operations Act 1997*.

Traffic and Transport Impacts

- 2.9 Upon determining the haulage route(s) for the construction, the Proponent shall:
- a) commission a qualified person to undertake a Road Dilapidation Report of all roads proposed to be used for construction activities in consultation with relevant road authorities. The Report shall assess the current condition of the relevant roads.
 - b) following completion of construction a subsequent Road Dilapidation Report shall be prepared to assess any damage that may have resulted due to traffic and transport related to the construction and ongoing operation of the project.

The Proponent shall commit to restore the relevant roads to a state described in the original Road Dilapidation report. The cost of any restorative work described in the subsequent Report or recommended by the relevant road authorities after review of the subsequent Report, shall be funded by the Proponent. Such work shall be undertaken at a time as agreed upon between the Proponent and the relevant road authorities. In the event of a dispute between the parties with respect to the extent of restorative work that may be required under this condition, any party may refer the matter to the Director-General for resolution. The Director-General's determination of any such dispute shall be final and binding on the parties.

- 2.10 The Proponent shall undertake all works affecting a public road or road reserve in consultation with and to meet the requirements of the RTA and relevant Council.
- 2.11 The Proponent shall ensure that all pipeline crossings of roads are constructed using construction methods and depth covered determined in consultation with the relevant road authority.
- 2.12 All works associated with the project are to be at no cost to the RTA or relevant road authority. The Proponent shall, prior to construction, liaise with the RTA to determine whether a Works Authorisation Deed is required.
- 2.13 Where directional drilling/boring is proposed under roads or where trenching is proposed within road reserves, prior to the commencement of construction of pipelines, the Proponent shall consult with the relevant road authority and prepare a report to their reasonable satisfaction, the following matters:
- a) detailed plans of the pipeline including vertical and horizontal alignment;
 - b) plant and equipment proposed to be used and construction compound locations;
 - c) construction schedule and hours of construction;
 - d) proposed lane closures of the road network prior to commencement of work;
 - e) specific plans required prior to submission of road occupancy licence applications;
 - f) mitigation measures proposed to reduce impacts to traffic and pedestrian safety; and
 - g) indicative maintenance arrangements during operation.

Contamination and Remediation

- 2.14 The Proponent shall ensure that contaminated areas of the recycled water treatment plant site and other work areas are appropriately remediated, if necessary, prior to the commencement of construction works associated with the project in those areas. All remediation work shall be conducted in accordance with the requirements of the *Contaminated Land Management Act*

1997 and Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites (1997).

- 2.15 Prior to any construction or excavation works adjacent to Norris Street, Loftus Road, Dursley Road, Fairfield Road and Pine Road, in the Holroyd City Council area, the Proponent shall conduct a preliminary contamination assessment to identify any areas affected by contamination.
- 2.16 Prior to the commencement of site preparation and construction works associated with the project that may directly disturb known contaminated areas of the site, the Proponent shall submit to the Director-General a Site Audit Statement(s) - Construction prepared by an accredited Site Auditor under the Contaminated Land Management Act 1997, verifying that the contaminated areas have been remediated to a standard consistent with the intended land use.

Hazards, Risk and Land Use Safety

- 2.17 All demolition work shall be carried out in accordance with *AS 2601-2001 The Demolition of Structures*.
- 2.18 The Proponent shall store and handle all Dangerous Goods, as defined by the Australian Dangerous Goods Code, strictly in accordance with:
- a) all relevant Australian Standards;
 - b) a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund: and
 - c) DECC guidelines entitled: *Storing and Handling Liquids: Environmental Protection Participants Manual* and *Environmental Compliance Report: Liquid Chemical Storage Handling & Spill Management*.

In the event of an inconsistency between the requirements listed from a) to c) above, the most stringent requirement shall prevail to the extent of the inconsistency.

- 2.19 The Proponent shall implement all the mitigation and control measures listed in section 3.5 of the Preliminary Hazard Assessment (PHA) of the EA. The Proponent shall submit an update on the implementation status of these measures to the Director-General prior to the commencement of construction, and again prior to the commencement of commissioning of the project.

Pre-Commissioning Hazards Studies

- 2.20 Prior to the commencement of commissioning of the project the Proponent shall prepare and submit for the approval of the Director-General the following studies:
- a) an **Emergency Plan** for the project. The Plan shall be prepared in accordance with the Department's publication *Hazardous Industry Planning Advisory Paper No. 1 - Industry Emergency Planning Guidelines*. The plan shall include detailed procedures for the safety of all people outside of the development who may be at risk from the project; and
 - b) a **Safety Management System**, covering all operations at the project and any associated transport activities involving hazardous materials. The System shall clearly specify all safety-related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to safety procedures. The System shall be developed in accordance with the Department's publication *Hazardous Industry Planning Advisory Paper No. 9 - Safety Management*.

Flooding Impacts

- 2.21 Prior to the commencement of construction, the Proponent shall prepare engineering drawings in consultation with Fairfield Council for relocation of St Elmo's Drain to account for potential flooding impacts at the site of the recycled water treatment plant. The engineering drawings shall be submitted for the approval of the Director-General prior to the commencement of construction.

- 2.22 The Proponent shall include specific design features for bulk chemicals tanks and chemical container storage areas at the recycled water treatment plant to prevent impacts beyond the boundary of the site in the case of a flood event. The chemical storage and handling area shall be designed to meet the requirements of AS 3780-1994.
- 2.23 Prior to finalising the design of the recycled water treatment plant and the commencement of construction works, an overland flood risk analysis for the site, including modelling of overland flows during the 100 year ARI overland flow design flood, shall be undertaken. A copy of the overland flow modelling results shall be provided to Fairfield City Council and to the Department upon completion.

Ecological Impacts

- 2.24 The Proponent shall define predicted minor impact by the project on River-flat Eucalypt Forest, Cumberland Plain Woodland, Shale Gravel Transition Forest and Castlereagh Swamp Woodland in accordance with the documents referred to in condition 1.1 and prepare a strategy to offset such vegetation losses or impact, to the satisfaction of the Director-General. Details of the offset strategy shall be submitted for the approval of the Director-General prior to the commencement of construction.
- 2.25 The Proponent shall ensure prompt restoration of drainage channels, which may provide Green and Golden Bell Frog habitat and movement corridors along creek lines, during construction works to minimise potential ecological impacts.
- 2.26 All work, including waterway crossings, undertaken within 40 metres of waterways shall be conducted in accordance with the Department of Water and Energy *Guidelines for Controlled Activities*.

Heritage Impacts

- 2.27 Prior to the commencement of construction, all project personnel shall undergo project induction, covering education in protocols and offences relating to knowingly disturbing or destroying non-Aboriginal heritage items or Aboriginal relics, and including the potential for uncovering non-Aboriginal and/or Aboriginal relics in the project work areas.
- 2.28 In the event of uncovering any previously unidentified Aboriginal objects or relics, work shall cease immediately in the vicinity of the site and the event shall be reported immediately to the DECC. This requirement shall be included in the project induction and the Construction Environmental Management Plan.

Soil and Water Quality Impacts

- 2.29 The Proponent shall comply with section 120 of the *Protection of the Environment Operations Act 1997* which prohibits the pollution of waters.
- 2.30 The Proponent shall install and maintain for the duration of construction works associated with the project, erosion and sedimentation control measures consistent with *Managing Urban Stormwater: Soils and Construction* (Landcom, 2004).
- 2.31 The Proponent shall investigate options for the collection, storage and reuse of stormwater which may include the installation of rainwater tanks to capture stormwater from the roof of station buildings or the construction site buildings and use of this water for preparing concrete, dust suppression and establishing and maintaining revegetated areas and landscaping. Such options shall be incorporated into the Construction Environmental Management Plan required under condition 6.2 of this approval.

Waste Generation and Management

- 2.32 All waste materials removed from the site shall only be directed to a waste management facility lawfully permitted to accept the materials.
- 2.33 The Proponent shall maximise the treatment, reuse and/or recycling on the site of any excavated soils, slurries, dusts and sludges associated with the project, to minimise the need for treatment or disposal of those materials outside the site.
- 2.34 The Proponent shall not cause, permit or allow any waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by a licence under the *Protection of the Environment Operations Act 1997*, if such a licence is required in relation to that waste.
- 2.35 The Proponent shall ensure that all liquid and/or non-liquid waste generated and/or stored on the site is assessed and classified in accordance with *Environmental Guidelines: Assessment, Classification and Management of Liquid and Non-Liquid Wastes* (DEC, 2004), or any future guideline that may supersede that document.
- 2.36 The Proponent shall manage any asbestos or asbestos-contaminated materials that may be uncovered during remediation or construction works strictly in accordance with the requirements of *Protection of the Environment Operations (Waste) Regulation 2005* and any guidelines or requirements issued by DECC in relation to these materials.

Visual Amenity and Urban Design

- 2.37 The Proponent is permitted to construct surface facilities and associated infrastructure at the recycled water treatment plant generally located and configured consistent with the preliminary designs presented in the documents referred to in condition 1.1 of this approval and in particular, Figure 2.1 of the document referred to under condition 1.1c), as modified by the Survey Report dated 22 December 2010. Heights of surface facilities will be limited as specified in Table 1.

Table 1 – Maximum Height of Surface Facilities

Item	Height Limit (m AHD)	Height Limit (including any access ladders, safety rails, roof ventilation apparatus)
Recycled Water Storage Tank	15.1	16.3
Feed Balance Tank	14.7	16.0
Detention Tank	14.9	16.2
Filtration (Reverse Osmosis) Building	18.3	19.8
Degasser	16.3	17.2
Flocculation Tank	13.5	14.7
Reverse Osmosis Tank	13.6	14.9
Reverse Osmosis Permeate Collection Tank	12.175	13.2

- 2.38 deleted

3. ENVIRONMENTAL MONITORING AND AUDITING

Noise Monitoring

- 3.1 Within 90 days of the commencement of operation of the pumping station at the recycled water treatment plant and the Rosehill pumping station, or as may be otherwise agreed by the Director-General, and during a period in which the pumping station and the recycled water treatment plant are operating under design loads and normal operating conditions, the Proponent shall review the noise emission performance of the pumping station and the recycled water treatment plant site. The review shall include, but not necessarily be limited to:

- a) methodologies for noise monitoring;
- b) location of noise monitoring;
- c) frequency of noise monitoring;
- d) identification of monitoring sites at which pre-operational and operational noise levels can be ascertained; and
- e) details of any entries in the Complaints Register (condition 5.3 of this approval) relating to noise impacts.

A report providing the results of the program shall be submitted to the Director-General within 28 days of completion of the testing required under this condition.

- 3.2 In the event that the program undertaken to satisfy condition 3.1 of the approval indicates that the operation of the pumping stations and the recycled water treatment plant site, under design loads and normal operating conditions, will lead to greater noise impacts than permitted under condition 2.5 of this approval, then the Proponent shall provide details of remedial measures to be implemented to reduce noise impacts to levels required by that condition. Details of the remedial measures and a timetable for implementation shall be submitted to the Director-General for approval within such period as the Director-General may require.

4. COMPLIANCE TRACKING

- 4.1 Prior to each of the events listed below, the Proponent shall certify in writing to the satisfaction of the Director-General that it has complied with all conditions of this approval applicable prior to that event:
- a. commencement of any construction works on the land subject of this approval; and
 - b. commencement of operation of the project.
- 4.2 The Proponent shall develop and implement a **Compliance Tracking Program** for the project, prior to commencing operations, to track compliance with the requirements of this approval and shall include, but not necessarily limited to:
- a) provisions for periodic review of the compliance status of the project against the requirements of this approval and the Statement of Commitments detailed in the document referred to in condition 1.1 of this approval;
 - b) provisions for periodic reporting of the compliance status to the Director-General;
 - c) a program for independent environmental auditing in accordance with *AS/NZ ISO 19011:2003 - Guidelines for Quality and/or Environmental Management Systems Auditing*;
 - d) procedures for rectifying any non-compliance identified during environmental auditing or review of compliance;
 - e) mechanisms for recording environmental incidents and actions taken in response to those incidents;
 - f) provisions for reporting environmental incidents to the Director-General during construction and operation; and
 - g) provisions for ensuring all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.

The Compliance Tracking Program shall be implemented prior to operation of the project with a copy submitted to the Director-General for approval within four weeks of commencement of the project, unless otherwise agreed by the Director-General.

- 4.3 Nothing in this approval restricts the Proponent from utilising any existing compliance tracking programs administrated by the Proponent to satisfy the requirements of condition 4.2. In doing so, the Proponent must demonstrate to the Director-General how these systems address the requirements and/or have been amended to comply with the requirements of the condition.
- 4.4 The Proponent shall meet the requirements of the Director-General in respect of the implementation of any measure necessary to ensure compliance with the conditions of this

approval, and general consistency with the documents listed under condition 1.1 of this approval.

5. COMMUNITY CONSULTATION

- 5.1 Subject to confidentiality, the Proponent shall make all documents required under this approval available for public inspection on request.

Complaints Procedure

- 5.2 Prior to the commencement of construction of the project, the Proponent shall ensure that the following are available for community complaints for the life of the project (including construction and operation):
- a) a telephone number on which complaints about construction and operational activities at the site may be registered;
 - b) a postal address to which written complaints may be sent; and
 - c) an email address to which electronic complaints may be transmitted.

The telephone number, the postal address and the email address shall be published in a local newspaper circulating in the local areas prior to the commencement of construction and prior to the commencement of operation. This information shall also be provided on the Proponent's website.

- 5.3 The Proponent shall record details of all complaints received through the means listed under condition 5.2 of this approval in an up-to-date Complaints Register. The Register shall record, but not necessarily be limited to:
- a) the date and time, where relevant, of the complaint;
 - b) the means by which the complaint was made (telephone, mail or email);
 - c) any personal details of the complainant that were provided, or if no details were provided, a note to that effect;
 - d) the nature of the complaint;
 - e) any action(s) taken by the Proponent in relation to the complaint, including any follow-up contact with the complainant; and
 - f) if no action was taken by the Proponent in relation to the complaint, the reason(s) why no action was taken.

The Complaints Register shall be made available for inspection by the Director-General upon request.

6. ENVIRONMENTAL MANAGEMENT

Environmental Representative

- 6.1 Prior to the commencement of any construction or operational activities, or as otherwise agreed by the Director-General, the Proponent shall nominate for the approval of the Director-General a suitably qualified and experienced Environmental Representative(s) independent of the design, construction and operation personnel. The Proponent shall engage the Environmental Representative(s) during any construction activities, and throughout the life of the project, or as otherwise agreed by the Director-General. The Environmental Representative(s) shall:
- a) oversee the implementation of all environmental management plans and monitoring programs required under this approval, and advise the Proponent upon the achievement of these plans/programs;
 - b) have responsibility for considering and advising the Proponent on matters specified in the conditions of this approval and the Statement of Commitments as referred to under condition 1.1c) of this approval;
 - c) oversee the implementation of the environmental auditing of the project in accordance with the requirements of condition 4.2 of this approval and all relevant project Environmental Management System(s); and
 - d) be given the authority and independence to recommend to the Proponent reasonable steps to be taken to avoid or minimise unintended or adverse environmental impacts,

and, failing the effectiveness of such steps, to recommend to the Proponent that relevant activities are to be ceased as soon as reasonably practicable if there is a significant risk that an adverse impact on the environment will be likely to occur.

Construction Environmental Management Plan

6.2 The Proponent shall prepare and implement a **Construction Environmental Management Plan** (CEMP) to outline environmental management practices and procedures to be followed during construction of the project. The CEMP shall be consistent with *Guideline for the Preparation of Environmental Management Plans* (DIPNR, 2004) and shall include, but not necessarily be limited to:

- a) a description of all relevant activities to be undertaken on the site during construction;
- b) statutory and other obligations that the Proponent is required to fulfil during construction including all relevant approvals, consultations and agreements required from authorities and other stakeholders, and key legislation and policies;
- c) details of how the environmental performance of the construction works will be monitored, and what actions will be taken to address identified potential adverse environmental impacts. In particular, the following environmental performance issues shall be addressed in the Plan:
 - i) measures to manage dust emissions;
 - ii) measures to monitor and minimise soil erosion and the discharge of sediment and other pollutants to lands and/ or waters during construction activities;
 - iii) measures to monitor and control noise emissions during construction works;
 - iv) measures to minimise the impact of construction on local flora and fauna and threatened species;
 - v) measures to implement in the case of uncovering previously unidentified soil and groundwater contamination during project excavations, including management of uncovered asbestos-contaminated sheeting and/or Acid Sulphate Soils.
- d) a description of the roles and responsibilities for all relevant employees involved in the construction of the project;
- e) the additional studies listed under condition 6.3 of this approval; and
- f) complaints handling procedures during construction.

A separate CEMP may be prepared for each stage of the project. The relevant CEMP shall be submitted for the approval of the Director-General no later than one month prior to the commencement of any relevant construction works associated with the project, or within such period otherwise agreed by the Director-General. Construction works shall not commence until written approval has been received from the Director-General.

6.3 As part of the Construction Environmental Management Plan required under condition 6.2 of this approval, the Proponent shall prepare and implement the following in consultation with the relevant Councils and for approval by the Director-General:

- a) an **Acid Sulphate Soil Management Plan**, if the mottled-clay soils at a depth of 1.0 m – 2.5 m below ground level along Berry Street (Granville) to Thackeray Street (Camellia) are to be disturbed during pipeline construction activities. The Plan shall be prepared in accordance with *Acid Sulfate Soil Manual* (Acid Sulfate Soil Management Advisory Committee, 1998);
- b) a **Flora and Fauna Management Plan** to manage flora and fauna impacts during construction and include appropriate revegetation of impacted area. The Plan shall be prepared in consultation with DECC and the Councils and shall include, but not necessarily be limited to:
 - i) details of all potentially affected threatened flora and fauna species and specific management procedures for the Green and Golden Bell Frog habitat;
 - ii) weed control mechanisms and controls for the spread of disease and animal injury;
 - iii) general management procedures for the construction of pipelines within vegetated corridors, and the rehabilitation of any disturbed vegetation.
- c) a **Construction Noise and Vibration Management Plan** to manage noise and vibration impacts during construction of the pipeline, recycled water treatment plant, Woodville

reservoir and Rosehill pumping station and to identify all feasible and reasonable noise and vibration mitigation measures. The Plan shall include, but not necessarily be limited to:

- i) details of all potentially affected sensitive receivers;
 - ii) the construction noise and vibration goals identified in the EA for construction periods greater than 26 weeks;
 - iii) specific activities to be conducted during the first hour of construction on Saturdays (7am to 8am) and measures to be incorporated to reduce noisy work during this specific time;
 - iv) where the objectives are predicted to be exceeded, an analysis of feasible and reasonable noise and vibration mitigation measures that will be implemented to reduce construction noise and vibration impacts;
 - v) procedures for notifying residents of construction activities that are likely to affect their noise and vibration amenity; and
 - vi) procedures for consulting with Yennora and Old Guildford public schools, Alaadin Childcare Centre and the Guildford Arabic Baptist Church to ensure that formal examination periods (i.e. end of year or state-wide examinations), centre rest periods or church service times are taken into account when scheduling construction activities.
- d) a **Traffic Management Plan** for all works to be carried out within public areas, or where construction activity impacts on traffic flow and bicycles or pedestrian access, in compliance with the requirements of *AS 1742.3 Traffic Control Devices for Works on Roads*. The Plan shall be prepared in consultation with the Councils, the relevant road authority, bus companies and private property owners to address potential impacts which shall include, but not necessarily be limited to:
- i) details of how construction of the project will be managed in proximity to local and regional roads;
 - ii) details of traffic routes for heavy vehicles, including any necessary route or timing restriction for oversized loads;
 - iii) provision for pedestrian access in the vicinity of construction areas, including disabled and pram access, cyclists, and provision for access to private properties;
 - iv) provision of vehicle parking in areas where existing parking spaces will be lost;
 - v) provisions to minimise impact on school traffic zones, including limited hours of work during school hours, compliance with speed limits by construction vehicles in school zones and where possible scheduling of construction work during school holiday periods;
 - vi) details of bus routes in the vicinity of construction areas, including proposed changes to existing routes; and
 - vii) demonstration that all statutory responsibilities with regard to road traffic impacts have been complied with.

Operation Environmental Management Plan

6.4 The Proponent shall prepare and implement an **Operation Environmental Management Plan** to detail an environmental management framework, practices and procedures to be followed during operation of the project. The OEMP shall be consistent with *Guideline for the Preparation of Environmental Management Plans* (DIPNR 2004) and shall include, but not necessarily be limited to:

- a) identification of all relevant statutory and other obligations that the Proponent is required to fulfil in relation to operation of the project, including all relevant approvals, licences, approvals and consultations;
- b) a description of the roles and responsibilities for all relevant employees involved in the operation of the project;
- c) overall environmental policies and principles to be applied to the operation of the project;
- d) relevant standards and performance measures to be applied to the project, and a means by which environmental performance can be periodically reviewed and improved, where appropriate;

- e) management policies to ensure that environmental performance goals are met and to comply with the conditions of this approval; and
- f) the additional plans listed under condition 6.5 of this approval.

A separate Operation Environmental Management Plan (OEMP) may be prepared for each stage of the project. The relevant OEMP shall be submitted for the approval of the Director-General no later than one month prior to the commencement of operation of the project, or within such period otherwise agreed by the Director-General. Operation shall not commence until written approval has been received from the Director-General.

6.5 As part of the Operation Environmental Management Plan required under condition 6.4 of this approval, the Proponent shall prepare and implement the following:

- a) a **Landscape Management Plan** including but not limited to:
 - i) measures to minimise and manage the use of herbicides for weed control;
 - ii) a plan for the replacement of plants in accordance with Fairfield Council's Urban Creeks Master Plan in riparian areas affected by the project. This may include any need for establishment of access paths within the creek corridor area for maintenance or other works;
 - iii) procedures for the removal of trees from Woodville Golf Course and rehabilitation plans for the visual impact of Woodville Reservoir;
 - iv) planting of additional screening plants in the area of North Street to provide visual screening for local residents, using native shrubs.
- b) an **Air Quality and Odour Management Plan** to outline measures to minimise impacts from the project on local and regional air quality. The Plan shall include, but not necessarily be limited to:
 - i) identification of all major sources of odour that may be emitted from the project;
 - ii) pro-active management and response mechanisms for odour emissions, with specific reference to measures to be implemented and actions to be taken to minimise and (where practicable) prevent potential odour impacts on surrounding land uses as a consequence of meteorological conditions, upsets within the project, or the mode of operation of the project;
 - iii) provision for review of air quality monitoring data, with comparison of monitoring data with that assumed and predicted in the documents listed under condition 1.1 of this approval, including verification of air quality modelling and predictions, as may be relevant;
 - iv) plans for regular maintenance of process equipment to minimise the potential for odour emissions; and
 - v) a contingency plan should an incident, process upset or other initiating factor lead to elevated odour impacts, whether above normal operating conditions or environmental performance goals/ limits.
- c) a **Noise Management Plan** to detail measures to mitigate and manage noise during operation of the recycled water treatment plant site, and Rosehill pumping station. The Plan shall include, but not necessarily be limited to:
 - i) identification of noise-generating activities and/or sources in relation to the Rosehill pumping station and the recycled water treatment plant site;
 - ii) identification of all relevant receivers and the applicable criteria at those receivers commensurate with the noise limits referred to in condition 2.4 of this approval;
 - iii) procedures to ensure that all reasonable and feasible noise mitigation measures are applied during operation of the Rosehill pumping station and the recycled water treatment plant site; and
 - iv) procedures to generate suitable documentation for environmental auditing, that demonstrates that best practice noise control operations are being implemented.

7. ENVIRONMENTAL REPORTING

Environmental Incident Reporting

- 7.1 The Proponent shall notify the Director-General of any environmental incident within 12 hours of becoming aware of the incident. The Proponent shall provide full written details of the incident to the Director-General within seven days of the date on which the incident occurred.
- 7.2 The Proponent shall meet the requirements of the Director-General to address the cause or impact of any environmental incident, as it relates to this approval, reported in accordance with condition 7.1 of this approval, within such period as the Director-General may require.

Annual Performance Reporting

- 7.3 The Proponent shall, throughout the life of the project, prepare and submit for the approval of the Director-General, an **Annual Environmental Management Report (AEMR)**. The AEMR shall review the performance of the project against the Operation Environmental Management Plan (refer to condition 6.6 of this approval) and the conditions of this approval. The AEMR shall include, but not necessarily be limited to:
- a) details of compliance with the conditions of this approval;
 - b) a copy of the Complaints Register (refer to condition 5.3 of this approval) for the preceding twelve-month period (exclusive of personal details), and details of how these complaints were addressed and resolved;
 - c) identification of any circumstances in which the environmental impacts and performance of the project during the year have not been generally consistent with the environmental impacts and performance predicted in the documents listed under condition 1.1 of this approval, with details of additional mitigation measures applied to the project to address recurrence of these circumstances;
 - d) results of all environmental monitoring required under conditions 3.1 to 3.2 of this approval, including interpretations and discussion by a suitably qualified person; and
 - e) a list of all occasions in the preceding twelve-month period when environmental goals/objectives/impact assessment criteria for the project have not been achieved, indicating the reason for failure to meet the criteria and the action taken to prevent recurrence of that type of failure.

The Proponent shall submit a copy of the AEMR to the Director-General every year, with the first AEMR to be submitted no later than twelve months after the commencement of operation of the project. The Director-General may require the Proponent to address certain matters in relation to the environmental performance of the project in response to review of the Annual Environmental Report. Any action required to be undertaken shall be completed within such period as the Director-General may require. The Proponent shall make copies of each AEMR available for public inspection on request.
