Appendix C

Draft Statement of Commitments

ID	Oxley Highway to Kempsey – Draft Statement of Commitments	Phase
1	**Desired environmental outcome – Compliance and auditing –** To implement a system for audit and inspection that ensures the successful performance of environmental management plans and this Statement of Commitments.	
1.1	The RTA will carry out the project consistent with: a) The procedures, safeguards and mitigation measures identified in the environmental assessment; b) Additional measures identified in the submissions report, c) This Statement of Commitments; and d) The conditions of approval.	All
1.2	The RTA will notify in writing the Director General, Planning, relevant government departments and relevant council/s of the start of the project's construction and operation. Such notification will be provided at least four weeks before the relevant start date unless otherwise agreed to by the Director General, Planning.	
1.3	The RTA will prepare a **pre-construction compliance report** and submit it to the Director General at least four weeks before construction commences (or within any other time agreed to by the director General). The pre-construction compliance report will include: i) Details of how the conditions of approval and commitments required to be addressed before construction were complied with; ii) The time when each relevant condition of approval or commitment was complied with, including dates of submission of any required reports and / or approval dates; and iii) Details of any approvals or licences required to be issued by relevant government departments before construction commences.	
1.4	The RTA will prepare and implement an audit and inspection plan. The audit and inspection plan may be incorporated in the CEMP.	All

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	Implementation plan and deliverables	**Phase**
1.5	**Construction compliance report** The RTA will provide the Director General, relevant council/s and any other relevant government department nominated by the Director General with construction compliance reports. The construction compliance reports will include information on: a) Compliance with the CEMP , the conditions of approval and relevant commitments; b) Compliance with any approvals or licences issued by relevant government departments for construction; c) The implementation and effectiveness of environmental controls. The assessment of effectiveness should be based on a comparison of actual impacts against performance criteria identified in the CEMP; d) Environmental monitoring results, presented as a results summary and analysis; e) The number and details of any complaints, including a summary of main areas of complaint, action taken, response given and intended strategies to reduce recurring complaints; f) Details of any review and amendments to the CEMP resulting from construction during the reporting period; g) Any innovations in construction methodology used to improve environmental management; h) The lessons learnt during Construction, including recommendations for future activities; and i) Any other matter relating to compliance with the conditions of approval or as requested by the Director General. The final construction compliance report must include a summary of all recommendations made under (h) in the previous compliance reports.	Construction
1.6	The RTA will prepare a **pre-operation compliance report** and submit it to the Director General at least four weeks before operation commences (or within any other time agreed to by the Director General). The pre-operation compliance report includes: a) Details of how the conditions of approval and commitments required to be addressed before operation were complied with; b) The time when each relevant condition of approval or commitment was complied with, including dates of submission of any required reports and / or approval dates; and c) Details of any approvals or licences issued by relevant government departments for the project's operation.	Construction
1.7	The RTA will submit an **environmental impact audit report -operations** to the Director General a maximum 24 months after the project begins operation and at any additional periods that the Director General may require. The environmental impact audit report - operation will also be submitted to other relevant government departments upon the request of the Director General. The environmental impact audit report - operation will: a) Be certified by an independent person at the RTA's expense. The certifier's details will be provided to the Director General before the environmental impact audit report – operation is prepared; b) Compare the operation impact predictions made in the environmental assessment, submissions report and any supplementary studies with the actual impacts;	Operation

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	c) Assess the effectiveness of implemented mitigation measures and safeguards; d) Assess compliance with the systems for operation maintenance and monitoring; e) Discuss the results of consultation with the local community particularly any feedback or complaints; and f) Be made publicly available.	
2	**Desired environmental outcome – environmental management:** To manage the potential environmental impacts of the project in order to meet the requirements identified in the environmental assessment, and submissions report.	
2.1	**Construction environmental management plan (CEMP)** The RTA will: a) Prepare a construction environmental management plan (CEMP) consistent with the Department of Planning Guidelines for CEMP preparation.	Pre-construction

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	b) Ensure that the mitigation measures identified in the environmental assessment, submissions report and this Statement of Commitments are incorporated into the CEMP. The CEMP will: i. Include a construction program, identifying construction activities and their location and timing; ii. Cover any relevant environmental elements identified by the RTA, or its contractor, from their environmental due diligence investigations; iii. Contain the construction sub plans required by these commitments; iv. Be prepared following consultation with relevant government departments, relevant council/s; v. Be publicly available; vi include a community consultation and notification strategy (including local community, relevant government departments, relevant council/s), and complaints management system; vii. Include environmental management details such as: - Identification of statutory obligations which the RTA is required to fulfil during construction, including all approvals and licences; - An environmental management structure indicating the responsibility, authority and accountability for personnel relevant to the CEMP; - Details of the construction personnel induction and training program; - Emergency response procedures; viii. Include implementation details such as: - Identification of relevant environmental elements; - Measures to avoid and/or control environmental impacts; - The tools to be used to implement the CEMP such as plans, schedules and work instructions; ix. Include monitoring and review details such as: - Performance criteria; - Performance monitoring methods; - Auditing and corrective actions procedures; x. Contingency planning for potential exceedences of applicable criteria; and CEMP review procedures. a) Obtain the Director General, Planning's approval for the CEMP before construction commences or within any other time agreed to by the Director General.	Pre-construction

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2.2	The RTA will: a) Implement the CEMP in accordance with this Statement of Commitments and all relevant acts and regulations. b) Periodically review the CEMP with the aim of continuous improvement.	Construction
3	**Desired environmental outcome – communication and consultation –** To maintain clear and open communication with the local community and road users throughout all phases of the project.	
3.1	**Community involvement plan** The RTA will: a) Prepare a **community involvement plan**. The plan will: i. Include measures to meet the requirements of the environmental assessment; ii. Specifically address the requirements of the commitments for community liaison groups, complaints management, and display centre(s) ; and iii. Include: - Identification of the community likely to be affected by the project including sensitive receivers, and commercial and industrial land uses; - Procedures for informing the local community of investigation and construction activities; - Procedures for informing affected road users of temporary traffic changes; and - Identification of training needs for proponent employees and contractors on implementing the community involvement plan.	Pre-construction
	b) Provide a copy of the **community involvement plan** to the Director General before construction commences.	Pre-construction
3.2	The RTA will form a **community liaison group** for the project and ensure the first meeting is held prior to construction commencing.	Pre construction
3.3	The RTA will: a) Ensure that the local community and businesses are advised of construction activities that could cause disruption. Methods to disseminate this information will be identified in the CEMP. Information to be provided will include: i. Details of any traffic disruptions and controls; ii Construction of temporary detours; and iii. Work approved to be undertaken outside standard construction hours, in particular noisy works, before such works are undertaken.	Construction

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	b) Establish a **project internet site** before construction commences and maintain the internet site until construction ends. This internet site will contain: i. Periodic updates of work progress, consultation activities and planned work schedules. The site will indicate the date of the last update and the frequency of the internet site updates; ii. A description of relevant approval Authorities and their areas of responsibility; iii. A list of reports and plans that are publicly available under this approval and details of how these can be accessed; iv. Contact names and phone numbers of relevant communications staff; v. The 24 hour toll-free complaints contact telephone number; and vi. Updates of work progress, construction activities and planned work schedules where significant changes in noise or traffic impacts are expected.	Pre-construction
3.3	a) Prepare a **construction complaints management system** as part of the community involvement plan, before construction commences and maintain the system for the duration of construction. The construction complaints management system will be consistent with AS 4269 "Complaints Handling" and include: i. A 24 hour, toll free telephone number listed with a telephone company and advertised; ii. A system to receive, record, track and respond to complaints within a specified timeframe. When a complaint cannot be responded to immediately, a follow-up verbal response on what action is proposed will be provided to the complainant within two hours during night-time works and 24 hours at other times; iii. A process for the provision of a written response to the complainant within 10 days, if the complaint cannot be resolved by the initial or follow-up verbal response; and iv. A mediation system for complaints unable to be resolved.	Pre-construction / Construction
	b) Include information on all complaints received, including the means by which they were addressed and whether resolution was reached with or without mediation, in the construction compliance reports.	Pre-construction

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	c) Establish **display centre(s)**, staffed and maintained as identified in the community involvement plan. Where required, the display centre(s) may: i. Provide facilities to enable members of the community to obtain information about the project; ii. Be open during times identified in the community involvement plan and advised to the community; iii. Contain information (written and/or graphics) covering at least: - Construction activities and programs including temporary works that will affect sensitive receivers, commercial and industrial land uses, pedestrians and public transport users; - Overall architectural and landscape designs with graphics, such as sections, sketches, perspective views etc, for key elements; iv. Provide a computer with internet access to the project's internet site; and v. Provide a phone line that allows the community to contact the Proponent.	Pre-construction / Construction
	d) Advertise in relevant newspapers before construction commences, and then at maximum three monthly intervals, the: i. Nature of the works proposed for the next three months; ii. Areas in which these works are proposed; iii. Construction hours; and iv. A contact telephone number.	All
3.4	The RTA will consult property owners about implementing mitigation measures that affect their property. Mitigation measures will be implemented according to a program derived from that consultation, if consistent with the conditions of approval.	All
4	**Desired environmental outcome –traffic and access:** To maintain access to property and maintain traffic movements on the road network through all phases of the project.	
4.1	The RTA will: a) Prepare **pre-construction road dilapidation reports** for all roads likely to be used by construction traffic. These reports will be prepared before construction commences.	Pre-construction
	b) Prepare **post construction road dilapidation reports** for the roads assessed prior to construction following the completion of construction by the RTA. Any damage resulting from construction, except that resulting from normal wear and tear, will be repaired at the RTA's cost. Alternatively the RTA may negotiate an alternative arrangement for road damage with the relevant roads authority.	Operation
	c) Provide copies of the dilapidation reports to the relevant roads authority.	All
4.2	The RTA will prepare a **construction traffic management sub plan** as part of the CEMP. The sub plan will include: i. Identification of all public roads to be used by construction traffic, in particular roads proposed to transport large quantities of construction materials. The expected timing and duration of road usage will be stated;	Pre-construction

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	ii. Management methods to ensure construction traffic uses identified roads; iii. Identification of all public roads that may be partially or completely closed during construction and the expected timing and duration of these closures. Consideration will be given to programming construction works to minimise road closures during peak hours and/or holiday periods; iv. Impacts on existing traffic (including pedestrians, vehicles, cyclists and disabled persons); v. Temporary traffic arrangements including property access; vi. Access to construction sites including entry and exit locations and measures to prevent construction vehicles queuing on public roads; vii. A response plan for any construction traffic incident; and viii. Monitoring, review and amendment mechanisms.	
4.3	The RTA will implement the Construction Traffic Management Sub Plan.	Construction
4.4	The RTA will:	
	a) Ensure that **access to properties** is maintained during construction and, where necessary and feasible, provide temporary alternative access.	Construction
	b) Ensure that where any legal property access is permanently affected by the project, that alternative access to an equivalent standard to and from a public road is provided where a property has no other legal means of access and where such alternative access is feasible and practical. Alternatively, where alternative access arrangements are not feasible or practical and a property is left with no access to a public road, ensure that negotiations are undertaken with the relevant property owner for the acquisition of the property in accordance with the provisions of the *Land Acquisition (Just Terms Compensation) Act 1991*.	Construction
5	**Desired environmental outcome – construction noise and vibration:** To manage noise and vibration generated during the construction and minimise the affects of construction noise and vibration on the community.	
5.1	The RTA will:	
	a) Consult with education institutions and minimise the impact of noise generated during construction works in their vicinity. The RTA will ensure that construction works audible at an institution are not timetabled during important events, such as examination periods, unless arrangements acceptable to the affected institutions are made at no cost to the affected institutions.	Pre-construction
	b) Prepare a **construction noise and vibration management (NVM) sub plan**. The sub plan will be prepared in consultation with the relevant council/s and the community liaison group and assign responsibility and timing of mitigation and monitoring measures. The sub plan will include: - An education program for construction personnel about noise minimisation; - Identification of each construction activity, including ancillary facilities, and their associated noise sources; - Identification of all potentially affected sensitive receivers; - The appropriate construction vibration criteria identified within these Statement of Commitments; - Determination of appropriate noise and vibration objectives for each identified sensitive receiver;	

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	- Noise and vibration monitoring, reporting and response procedures; - Assessment of potential noise and vibration from each construction activity including noise from construction vehicles and any traffic diversions; - A description of management methods and procedures and specific noise mitigation treatments that will be implemented to control noise and vibration during construction; - Justification for any activities outside the construction hours specified in the statement of commitments. This includes identifying areas where construction noise will not be audible at any sensitive receiver; - Procedures for notifying residents of construction activities that are likely to affect their noise and vibration amenity; and - Contingency plans to be implemented in the event of non-compliances and/or noise complaints.	
	c) Seek approval from Director General for the construction NVM sub plan as part of the CEMP.	Pre-construction
	d) Where reasonable and feasible, implement operation noise mitigation measures at the start of construction (or at other times during construction) to minimise construction noise impacts.	
5.2	The RTA will undertake **pre – construction noise monitoring** as identified in the **NVM sub-plan**.	Pre-construction
5.3	The RTA will: a) Implement measures as identified in the **NVM sub-plan** to reduce noise impact of construction activities including blasting to nearby residences.	Construction
	b) Ensure that public address systems used at any construction site are not used outside the normal construction hours listed unless otherwise approved through the NVM sub plan. Public address systems will be designed to minimise noise spillage off-site.	Construction
5.2	a) Schedule rock breaking, rock hammering, sheet piling, pile driving and any similar activity only between the following hours unless otherwise approved in the NVM sub plan: i. 9 am to 12 pm and 2 pm to 5 pm, Monday to Friday; and ii. 9 am to 12 pm, Saturday.	Construction
	b) Ensure that wherever practical, and where sensitive receivers may be affected, driven piles are not used. If driven piles are required they will only be installed where approved in the NVM sub plan.	Construction
5.3	c) Limit vibration caused by construction and received at any structure outside the project to the following unless, otherwise approved in the NVM sub plan: i. German standard DIN 4150 Part 3 Structural Vibration in Buildings. Effects on Structures; and ii. The evaluation criteria presented in British Standard BS 6472 - Guide to Evaluate Human Exposure to Vibration in Buildings (1Hz to 80	Construction

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	Hz) for low probability of adverse comment.	
	d) Undertake **blasting** between the hours of 9:00 am and 3:00 pm, Monday to Friday, and 9:00 am to 12:00 pm on Saturday, unless otherwise approved in the NVM sub plan.	Construction
	e) Ensure that the **vibration level due to blasting activities** will meet the requirements of any relevant DEC licence. The guideline "Technical Basis for Guidelines to Minimise Annoyance due to Blasting Overpressure and Ground Vibration" prepared by the Australian and New Zealand Environment and Conservation Council (ANZECC) would generally apply to blasting.	Construction
	f) Undertake **blasting trials** if blasting is to be used. Results from the trials will be used to determine site-specific blast designs that will enable the performance criteria specified in the construction NVM sub plan to be satisfied.	Construction
	g) Make all reasonable attempts to **contact sensitive receivers** located within 500 metres of a blast location. The contact will be made at least 48 hours before a blast and advice given to the receiver will include a schedule of blast time(s) and a telephone number and contact name.	Construction
	h) Undertake the **noise monitoring** requirements as per the **NVM sub-plan**.	Construction
6	**Desired environmental outcome – operational noise:** The RTA will design and construct operational noise treatments to achieve the goals established in the NSW Government's " *Environmental Criteria for Road Traffic Noise*".	
6.1	The RTA will: a) Prepare an **operation noise management report** in consultation with the Department of Environment and Climate Change, detailing the RTA's investigation of "Reasonable and Feasible" operation noise mitigation methods. The operation noise management report will: i. Be prepared in accordance with the NSW Government's "Environmental Criteria for Road Traffic Noise" (ECRTN) and the RTA's "Environmental Noise Management Manual" (ENMM); ii. Use up to date traffic data for any modelling; iii. Identify the operation noise criteria; iv. Identify sensitive receivers; v. Predict noise levels at all sensitive receivers; vi. Detail "reasonable and feasible" noise mitigation measures, physical and managerial. An analysis for the entire project will be undertaken in accordance with Practice Note IV of the RTA's "*Environmental Noise Management Manual*"; vii. Consider urban design issues relating to noise control measures; viii. Identify which noise mitigation measures will be implemented, including their location, type and when they would be implemented; and ix. Detail noise monitoring, reporting and complaint response procedures. The noise mitigation measures identified in the report will be selected in consultation with affected property owners.	Construction

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	b) Obtain the approval of the Director General for the operation noise management report prior to the commencement of construction or within any other time agreed to by the Director General.	
	c) Implement the requirements of the **operational noise management report**.	Construction / Operation
6.2	The RTA will: a) Undertake the monitoring of operation noise in accordance with Practice Note VIII of the RTA's ENMM.	Operation
6.3	a) Assess the adequacy of the implemented traffic noise mitigation measures between six months and one year after opening the project. Should the assessment indicate traffic noise levels exceeding those predicted in the **operation noise management report**, the RTA will i. Advise the Director General; and ii. Investigate and implement further "reasonable and feasible" mitigation measures in accordance with the NSW Government's ECRTN and RTA's ENMM. The selection of these measures will be undertaken in consultation with affected property owners and be consistent with the operation noise management report.	Operation
7	**Desired environmental outcome – flora and fauna:** To manage adverse impacts on native vegetation, fauna and their habitats, and threatened flora and fauna in accordance with the strategies contained in the environmental assessment.	
7.1	The RTA will: a) Prepare a **flora and fauna management sub plan**. The sub plan will be prepared in consultation with relevant government departments, relevant council/s and include: i. Appropriate mitigation measures identified in the environmental assessment and submissions report; ii. Plans showing terrestrial and aquatic vegetation communities; iii. Methods to manage impacts on flora and fauna species (terrestrial and aquatic) and their habitat which may be directly or indirectly affected by the activity; iv. Rehabilitation details; v. A weed management plan; and vii A program for reporting on the effectiveness of terrestrial and aquatic flora and fauna management measures against the identified performance criteria.	Pre-construction
	b) Undertake the design and construction of bridges and culverts in consultation with the Department of Environment and Climate Change and Department of Primary Industries (Fisheries). The RTA will ensure the design and construction of bridges and culverts are consistent with RTA and Department of Primary Industries (Fisheries) guidelines.	
	c) Submit the flora and fauna management sub plan to the Director General.	

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7.2	The RTA will: a) Implement all requirements of the **flora and fauna management sub plan.**	Construction
	b) Establish contractual systems for the construction contractor to conduct inspections and monitor compliance with plan requirements.	Pre-construction
7.3	The RTA will implement all post construction requirements of the **flora and fauna management sub plan**.	Operation
8	**Desired environmental outcome – Aboriginal heritage –** To manage adverse impacts on indigenous heritage in accordance with the strategies contained in the environmental assessment.	
8.1	The RTA will: a) Prepare a cultural heritage conservation management plan (CHCMP). The CHCMP will be prepared following consultation with the local Aboriginal community and Department of Environment and Climate Change. The CHCMP will include the details of: i. The procedures that will be used when investigating potential archaeological deposits that may be impacted by the project; ii. The protocol that will be implemented should any human skeletal remains be encountered during construction works on the project; iii. Aboriginal heritage induction training strategy to be implemented for the project; iv. Aboriginal heritage measures listed in the environmental assessment; v. Details of the archaeological investigations to be undertaken and any associated licences or approvals required; vi. Procedures to be implemented if previously unidentified Aboriginal objects are discovered during construction; and vii. An education program for construction and project supervision personnel on their obligations for Aboriginal cultural materials.	Pre-construction
8.2	The RTA will: a) Implement the cultural heritage conservation management plan.	Construction
	b) Should it become aware of any unexpected indigenous heritage object(s) during the course of construction, immediately cease all work likely to affect the object(s) and inform the Department of Environment and Climate Change in accordance with the *National Parks and Wildlife Act 1974*.	Construction

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9	**Desired environmental outcome – Non-indigenous heritage –** To manage adverse impacts on heritage items and structures.	
9.1	The RTA will: Prepare a **non-indigenous heritage management sub plan** as part of the CEMP. The sub plan will be prepared in consultation with the Heritage Office, relevant council/s and include: i. Details of additional mitigation measures proposed to address impacts on non-Indigenous heritage items and sites; ii. Details of any investigations to be undertaken and any approvals required; iii. Procedures to be implemented if previously unidentified non-indigenous relics are discovered during construction; and iv. An education program for construction personnel on their obligations for non-indigenous relics.	Pre-construction
9.2	The RTA will: a) Implement the non-indigenous heritage management sub plan.	Construction
	b) Should it become aware of any unexpected non-indigenous heritage object(s) during the course of construction, immediately cease all work likely to affect the object(s) and inform the Heritage Council in accordance with the *Heritage Act 1977*.	Construction
10	**Desired environmental outcome – Soil and water management –** To manage soil and water impacts to achieve the objectives of Landcom's guideline "Managing Urban Stormwater - Soils and Construction" (2004), the Acid Sulfate Soils Manual (1998), the RTA's Code of Practice for Water Management (1999).	
10.1	The RTA will prepare a **soil and water management (S&WM) sub plan** in consultation with relevant government departments, relevant council/s as part of the CEMP. The sub plan will: i. Where relevant, be consistent with the Landcom's guideline "Managing Urban Stormwater – Soils and Construction", the RTA's "Guidelines for the Control of Erosion and Sedimentation in Roadworks" and the DIPNR "Constructed Wetlands Manual"; ii. Identify the construction activities that could cause soil erosion or discharge sediment or water pollutants from the site; iii. Describe management methods to minimise soil erosion or discharge of sediment or water pollutants from the site including a strategy to minimise the area of bare surfaces during construction; iv. Describe the location and capacity of erosion and sediment control measures; v. Identify the timing and conditions under which construction stage controls will be decommissioned; vi. Include contingency plans to be implemented for events such as fuel spills; and vii. Identify how the effectiveness of the sediment and erosion control system will be monitored, reviewed and updated.	Pre-construction

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10.2	The RTA will prepare an **acid sulfate soil management sub plan** in consultation with relevant government departments as part of the CEMP. The sub plan will: i. Be consistent with the "Acid Sulfate Soils Manual" (Acid Sulfate Soil Management Advisory Committee, 1998) or update; ii. Include a contingency plan to deal with the unexpected discovery of actual or potential acid sulphate soils; and iii. Include a water quality monitoring program.	Pre-construction
10.3	The RTA will prepare a **spoil and fill management sub plan** as part of the CEMP. The sub plan will include: i. The locations of major (defined as a volume greater than 500 cubic metres) spoil stockpiles; ii. The source of imported fill material and where it will be stockpiled and used; and iii. Methods to re-use or dispose excess or unsuitable spoil material including estimated volumes and disposal sites.	Pre-construction
10.4	The RTA will investigate the potential for changes in the **groundwater** table before any major earthworks (defined as a cut or fill area with depth or height exceeding five metres). Where a potential for change is identified the RTA will: i. Assess the significance of the change and any resultant effects within and outside the road reserve; and ii. Where necessary, design and implement measures to manage the changes. Management measures will be determined in consultation with the regional office of DNR.	Pre-construction
10.6	The RTA will implement a **water monitoring** program before construction in accordance with the **S&WM sub-plan**.	Pre-construction
10.7	The RTA will ensure all operation stage controls for stormwater drainage and water pollution are located, designed, constructed, operated and maintained to meet the requirements of the RTA's "Code of Practice for Water Management – Road Development and Management". These controls will be designed in consultation with relevant Government Departments, Relevant Council/s.	All
10.8	The RTA will: a) Implement the S&WM sub plan, the acid sulfate soil management sub plan and the spoil and fill management sub plan.	Construction
	b) Consult an appropriately qualified soil conservationist according to a schedule identified in the S&WM sub plan to: - Undertake inspections of temporary and permanent erosion and sedimentation control devices; - Ensure that the most appropriate controls are being implemented; - Check that controls are being maintained in an efficient condition; and - Check that controls meet the requirements of any relevant approval and/or licence condition.	Construction
	c) Implement a monitoring program during construction in accordance with **SW&M sub-plan**.	Construction

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	d) Report the results of inspections undertaken by the **soil conservationist** and any follow-up actions in the construction compliance reports required by this Statement of Commitments	Construction
10.9	The RTA will: a) Implement **operational water management controls** as listed in the **SW&M sub-plan**.	Operation
	b) Implement a **maintenance and inspection program** for operational controls as listed in the **SW&M sub-plan**.	Operation
11	**Desired environmental outcome – air quality –** To manage adverse air quality impacts on the community to meet air quality targets.	
11.1	The RTA will prepare an **air quality management (AQM) sub plan** as part of the CEMP. The sub plan will identify and include: i. The air quality mitigation measures. ii. Potential sources of dust; iii. Dust management objectives consistent with Department of Environment and Climate Change guidelines; iv. A monitoring program to assess compliance with the identified objectives. Monitoring for dust deposition and particulate concentration will be undertaken according to the Department of Environment and Climate Change Guideline "Approved Methods for Sampling and Analysis of Air Pollutants in New South Wales"; v. Mitigation measures to be implemented, including measures during weather conditions where high level dust episodes are probable (such as strong winds in dry weather); and vi. A progressive rehabilitation strategy for exposed surfaces with the aim of minimising exposed surfaces.	Pre-construction
11.2	The RTA will: a) Implement the **air quality management sub plan**.	Construction
	b) Ensure that all plant and equipment used in connection with the project are: i. Maintained in a proper and efficient condition; and ii. Operated in a proper and efficient manner.	Construction
	c) Ensure that construction vehicles using public roads are maintained to prevent any loss of load, whether dust, liquid or soils. Facilities will be provided at exit points of all construction sites/compounds to minimise tracking mud, dirt or other material onto a public road or footpath. In the event of any spillage, the RTA will remove the spilled material as soon as practicable within the working day of the spillage.	Construction
	d) Implement a dust monitoring program in accordance with the **AQM sub-plan**.	Construction

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12	**Desired environmental outcome – greenhouse gases and energy –** To manage energy consumption and greenhouse gas generation during construction.	
12.1	The RTA will: a) Promote the reduction of greenhouse gases by adopting energy efficient work practices including: i. Developing and implementing procedures to minimise energy use; and ii. Conducting awareness programs for all site personnel regarding energy conservation methods.	Pre-construction
	b) Conduct energy audits during the project to identify and address energy waste.	Construction
12.2	The RTA will: a) Use electrical energy derived from a renewable energy source accredited by the National Green Power Accreditation Steering Group (or equivalent) for the supply of at least 50 per cent of the on-site electrical energy requirements for the project's construction unless otherwise agreed by the Director General.	Construction
	c) Report on the power consumption (green power or other) in the Construction Compliance Reports.	Construction
13	**Desired environmental outcome – urban design and landscaping –** To minimise the visual impacts of the project	
13.1	**Urban design and landscape plan** The RTA will: a) Prepare an urban design andlandscape plan before construction commences in consultation with relevant council/s and the community liaison group unless otherwise agreed to by the Director General. The plan will present an integrated urban design for the project. The plan will include design treatments for: i. Location and identification of existing vegetation and proposed landscaped areas; ii. Built elements including retaining walls, bridges and noise walls; iii. Pedestrian and cyclist elements including footpath location, paving types and pedestrian crossings; and iv. Fixtures such as seating, lighting, fencing and signs.	Pre-construction
	b) Also include the following information in the plan: i. The visual and landscape; ii. Graphics for key elements such as sections, sketches, perspective views etc.; iii. A schedule of species to be used in landscaping. The derivation of the schedule will be explained including its relationship with the project's ecological studies; iv. Details of the timing and progressive implementation of landscape works considering related environmental controls such as erosion and sedimentation controls and drainage; and	Pre-construction

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	v. Procedures and methods to monitor and maintain landscaped or rehabilitated areas both inside and outside the project.	
	c) Obtain the approval of the Director General for the urban design and landscape plan before construction commences or within any other time agreed to by the Director General.	Pre-construction
13.2	The RTA will implement the urban design and landscape plan.	Construction / Operation
13.3	The RTA will implement any required remedial measures to maintain landscaping works to the design standard established in the urban design and landscape plan.	Construction / Operation
13.4	The RTA will monitor and maintain landscape or rehabilitation works which, following construction, are not the responsibility of the RTA. The monitoring and maintenance will be carried out by a landscape specialist for a period of three years following completion of any landscaping stage or as otherwise identified in the urban design and landscape plan.	Construction / Operation
14	**Desired environmental outcome – hazard and risk –** To manage potential for hazards and reduce the risks associated with the project.	
14.1	**Hazard and risk management sub plan** The RTA will prepare hazards and risk management sub plan as part of the construction and operation EMPs. The sub plan will include: i. The hazard and risk measures; ii. Details of the hazards and risks associated with the project; and iii. Mitigation measures including contingency plans.	Pre-construction / Construction
14.2	The RTA will implement the hazard and risk management sub plan – construction.	Construction
14.3	The RTA will implement the hazard and risk management sub plan – operation.	Operation
15	**Desired environmental outcome – waste –** To manage waste in accordance with the principles of the waste management hierarchy referred to in the *Waste Avoidance and Resource Recovery Act 2001* and the NSW Government's Waste Reduction and Purchasing Policy.	
15.1	**Waste management and re-use sub plan** The RTA will prepare waste management and re-use sub plan(s). The sub plan(s) will address the management of wastes during the construction and operation stages respectively in accordance with the NSW government's waste reduction and purchasing policy. The sub plan(s) will identify requirements for: i. All waste measures; ii. The application of the waste minimisation hierarchy principles of avoid/reduce/re-use/recycle/dispose; iii. Waste handling and storage; iv. Disposal of wastes. Specific details will be provided for cleared vegetation, contaminated materials, glass, metals and plastics,	Pre-construction / Construction

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	hydrocarbons (lubricants and fuels) and sanitary wastes; and v. Any waste material that is unable to be re-used, re-processed or recycled will be disposed at a facility approved to receive that type of waste.	
15.2	The RTA will: a) Implement the waste management and re-use sub plan – construction.	Construction
	b) Ensure that the re-use of material generated from construction is maximised in preference to importing fill. All material excavated from construction will be re-used or recycled unless otherwise approved in the spoil and fill management sub plan.	Construction
15.3	The RTA will implement the waste management and re-use sub plan – operation.	Operation
16	**Miscellaneous issues**	
16.1	**Utilities and services** The RTA will identify the utilities and services (hereafter "services") potentially affected by construction to determine requirements for diversion, protection and/or support. Alterations to services will be determined by negotiation between the RTA and the service providers. The RTA in consultation with service providers will ensure that disruption to services resulting from the project are minimised and customers advised of any disruptions.	Pre-construction / Construction
16.2	**Ancillary construction facilities** The RTA will ensure the sites for ancillary facilities satisfy the criteria provided through the CEMP.	Pre-construction
16.3	**Property impacts** The RTA will reinstate a water supply of equivalent quality and quantity where a licensed bore, dam or other property water supply is adversely affected by the project or alternatively negotiate compensation for the loss with the landowner.	All