



Compliance Tracking Report January to June 2014

Googong Township Integrated Water Cycle Project

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I.0 Introduction

I.1 Background

Googong Township Proprietary Limited (GTPL), a partnership between Canberra Investment Corporation (CIC) and Mirvac, is responsible for the development of the new Googong Township that will be located in the Canberra region, around 7 km south of Queanbeyan in NSW. The new Googong Township will be home to about 16,000 people and developed over the next 25 years.

The township is designed around an Integrated Water Cycle (IWC), with a dedicated Water Recycling Plant (WRP) that will reduce the consumption of potable water in the community by around 60 per cent and recycle the township's water for non-potable use.

The *Googong Township Water Cycle Project Environmental Assessment* (November 2010) (EA) was prepared under (the now repealed) Part 3A of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) to assess the impacts of construction and operation of infrastructure for the potable water, recycled water and sewage system required to service the township.

Concept Approval for the ultimate development (Stage 1 and Stage 2) and a Project Approval for Stage 1 of the Googong Township IWC Project (IWC Project) were granted by the NSW Planning Assessment Commission, under delegation from the Minister for Planning and Infrastructure on 24 November 2011.

Stage 1 of the IWC Project comprises new infrastructure to deliver potable drinking water to the township, treat wastewater and utilise recycled water for re-use in the township and for environmental discharge. Stage 1 includes a new WRP, temporary reservoirs for recycled and potable water, pumping stations and mains pipework (including rising and distribution mains) for sewage, recycled water and potable water.

The IWC Project is being constructed and operated in stages to ensure the infrastructure is correctly sized to meet the incremental level of demand. Construction for Stage 1 commenced in January 2013 (for Stage A Network) and operation of the first water and sewage infrastructure commenced 14 February 2014. An interim sewer service for the first stage of development will be operating until the WRP is commissioned.

The Compliance Tracking Program for the IWC Project, approved by the Department of Planning and Infrastructure (DP&I) in October 2012, stipulates that a Compliance Tracking Report must be prepared every six months during the construction period of the IWC Project and during the first two years of operation. An Environmental Representative (ER) has also been appointed for the IWC Project (Richard Sharp, NGH Environmental) who is independent of the IWC Project and oversees the implementation of all environmental management plans and monitoring programs and advises on compliance obligations.

I.2 Purpose

Pre-construction compliance reports for the first two construction stages were prepared in late 2012 and the first two construction compliance reports have been prepared for the period extending from January to June 2013 and July to December 2013. This Compliance Tracking Report has been prepared to assess compliance of the IWC Project for the reporting period of January 2014 to June 2014.

As noted in Section 1.1, Stage 1 of the IWC Project is being constructed in stages to meet the incremental demand and this report assesses the compliance for stages that were underway or soon to commence during the reporting period (January to June 2014), and includes:

- Stage A Network (west) (construction).
- Stage A Network (east) (construction).

- Stage A Network (operation).
- Stage AB WRP (pre-construction).

Stage B Network, the last of the stages for the Approved Project, is not scheduled to commence construction until around October 2014 and will be included in the next compliance tracking report.

This Compliance Tracking Report has been structured so that each chapter addresses one of the issues, as required by Section 2.2 of the Compliance Tracking Program.

- Scope of activities – Section 2.0.
- Performance of environmental controls – Section 3.0.
- Compliance with conditions and summary of non-compliances – Section 4.0.
- Environmental incidents – Section 5.0.
- Outcomes of monitoring – Section 6.0.
- Outcomes of inspections and audits – Section 7.0.
- Complaints – Section 8.0.

2.0 Scope of works

2.1 Stage A Network

2.1.1 Construction – Stage A Network (west)

Stage A Network (west) comprises Sewage Pumping Station 1 (SPS1), interim reservoirs and connecting pipe mains and has been constructed by GTPL and their contractor Woden Contractors.

A Construction Environmental Management Plan (CEMP) was prepared by GTPL and approved by DP&I on 18 October 2012, with subsequent minor revisions endorsed by the ER. Construction commenced on Stage A Network (west) in January 2013 and was mostly completed during the reporting period, with Wodens undertaking final works, commissioning and rectification activities.

During the reporting period Woden Contractors has undertaken the following construction activities as part of the final works for Stage A Network (west):

- Reservoirs – Commissioning, minor earthworks, pavement works, electrical works, telemetry work and commissioning, and installation of chemical dosing skids.
- SPS – installation of silencer on the odour control unit.
- Pipelines – Super chlorination.

2.1.2 Construction – Stage A Network (east)

Stage A Network (east) comprises temporary connection from ACTEW water treatment plant, Bulk Water Pumping Station (BWPS), associated water main to, and flow meter at junction with Stage A Network (west) and is being constructed by Guideline ACT, under the supervision of ACTEW on behalf of GTPL.

A CEMP was prepared by GTPL and approved by DP&I on 5 December 2012, with subsequent minor revisions endorsed by the ER. Construction commenced for Stage A Network (east) in May 2013.

During the reporting period Guideline ACT has undertaken the following construction activities as part of the Stage A – Network (east):

- BWPS – Finished construction of BWPS building, installed gantry crane, completed fire/ventilation works inside BWPS building, commissioning and defects works.
- Electrical – Fibre optic works, internal lighting fit out and final electrical works in the BWPS building, commissioning and defects works.
- Water main – Providing water supply to GTPL/QCC, construction of the flow meter station at the network junction, and defects works.

2.1.3 Operation – Stage A Network

The DP&I approved an Operation Environmental Management Plan (OEMP) for the combined operation of Stage A Network (west/east) on 14 October 2013. After some commissioning delays, operation of Stage A Network commenced 14 February 2014. It involves the:

- Delivery of potable water from the BWPS to the reservoirs and township.
- Collection of sewage at SPS1.
- Transfer of sewage to ACTEW's disposal point at Coppins Crossing via tanker.

Ecowise have been engaged on behalf of GTPL and QCC to manage the operation of the interim reservoirs and SPS1 (until formal handover to QCC). Transpacific has been engaged to tanker sewage from SPS1 to Coppins Crossing, and on average around 2-3 tanker loads have been transferred to Coppins Crossing (working days only).

2.2 Stage AB WRP

2.2.1 Pre-construction

The next stage of the IWC Project to commence construction is the Stage AB WRP, which involves infrastructure to provide tertiary treatment of sewage and production of recycled water suitable for use within the township. The WRP is situated in the north-eastern corner of NH1A adjacent to Googong Dam Road.

A CEMP was prepared by GTPL and approved by DP&I on 11 December 2013. Construction works are scheduled to commence outside the reporting period in August 2014. As such the pre-construction status has been considered for the Stage AB WRP for the January to June 2014 reporting period.

2.3 Consistency assessments

Four consistency assessments were prepared during the reporting period and issued to the ER and to Department of Planning and Environment (DP&E) (formerly DP&I) and included:

- (1) Construction of new flow meter station at the junction of Stage A Network (west/east).
- (2) Out of hours work to conduct a groundwater pumping test at GGW05 as part of baseline monitoring.
- (3) Increasing the number of daily tanker movements for interim services to transfer sewage waste to an offsite treatment facility prior to WRP commissioning.
- (4) Relocation of the rising main and sewage pumping station 2 (SPS2) from concept to detailed design for Stage B Network.

2.4 Modifications

One modification (Modification 2) was submitted during the reporting period to DP&E on 11 March 2014. The proposed modification involves the construction and operation of a new pipeline from the WRP to transfer recycled water that does not meet the public health criteria and discharge it to Googong Creek through the existing outlet structure immediately downstream of Beltana Park during process commissioning and off-spec events. The modification was assessed by DP&E and approved 9 July 2014.

As a result of the modification, some changes will be made to the Stage AB WRP CEMP to address amendments to the CoA. In addition, this reporting period only considers compliance with the Project Approval and Modification 1 that were in force during the reporting period. The conditions associated with Modification 2 will be considered in the next Compliance Tracking Report.

3.0 Environmental controls

3.1 Introduction

Environmental controls are implemented in a manner that avoids or minimises the impact of the project to the environment and the community. These controls can be short term (during construction) or long term (during operation). The following section outlines environmental controls that have been installed and implemented as part construction of the IWC Project during the reporting period.

3.2 Stage A Network

3.2.1 Construction – Stage A Network (west)

As per the mitigation measures prescribed in the environmental management plans appended to the CEMP, the following environmental controls at Stage A – Network (west) were implemented and/or remained in place during the reporting period:

- Installation and maintenance of erosion and sediment controls as outlined in the Erosion and Sediment Control Plan.
- Appropriate storage of chemicals and spill kits.
- Site fencing.
- A total of ten nest boxes have been installed.
- Collection storage and treatment of concrete waste on site.
- Landscaping – Woden Contractors and Able Landscaping have planted native grass, garden beds and eucalypt trees along Googong Dam Road (i.e. pipe alignment) and planting of grass/shrubs has also taken place at SPS1.

3.2.2 Construction – Stage A Network (east)

As per the mitigation measures prescribed in the environmental management plans appended to the CEMP, the following environmental controls at Stage A – Network (east) were implemented and/or remained in place during the reporting period:

- Installation and maintenance of erosion and sediment controls as outlined in the Erosion and Sediment Control Plan, and water testing (turbidity) after rainfall events.
- Appropriate storage of chemicals and spill kits and bunding of sub-contractor vehicles that have containers of oils.
- A total of 46 nest boxes have been installed.
- Fencing of clearing exclusion zones and erection of signage (e.g. for Endangered Ecological Communities, Hoary Sunray population).
- Heritage fencing around known heritage items.
- Dust suppression through use of water tanker and other measures in accordance with the Air Quality Management Plan to manage dust and vehicle exhaust emissions.
- Installation of security fencing at the revenue station.
- Management of concrete waste on site (reuse or disposal).
- Landscaping – Guideline ACT and Revegetation and Erosion Control Services have planted over 900 trees along the batters either side of the pipe bench and access road. In addition they have also undertaken grass establishment, mulching, weed monitoring and removal.

3.2.3 Operation – Stage A Network

As per the mitigation measures prescribed in the Stage A Network OEMP, the following environmental controls at Stage A – Network were implemented during the reporting period:

- QCC has developed the following additional procedures for operation of the interim reservoirs and network:
 - » Googong Township Interim Water Supply Drinking Water Quality Management Plan (QCC, September 2013).
- Ecowise has developed the following additional procedures for maintenance and operation of the interim reservoirs and SPS1:
 - » T703 Maintenance of Water and Sewerage Assets.
 - » E110 Emergency Preparedness and Response.
 - » O112 Accident Incident Reporting.
- Transpacific has developed the following additional procedures for tankering operations.
 - » Work Instruction – Sewerage Tankering – TIS Unanderra – 2014-06-27T15_04_51.
 - » Risk Assessment Form – Tanker Operations – Non DG – TIS Unanderra – 2014-03-18T13_57_21.
 - » Emergency Procedures Guide for Drivers Operations – TIG OPS F 3251.
 - » Transpacific SWC WI 1056: Effluent Transport Googong Township to Queanbeyan STP or Coppins Crossing (Traffic Management Plan Rev 1.0).
 - » Standard Operating Procedure Waste Transport – TIG SEQ SOP 1178
- Chemicals at interim reservoirs are appropriately labelled and stored in a bunded area.
- Spill kits are kept on board the tanker.
- The aerator at SPS1 is operated as required, to aerate sewage to assist in minimising odour. Covers and valves are also left open for as short as time as possible.
- Valves around SPS1 are closed during pump outs to prevent any spills from entering stormwater system.
- Tankering is only undertaken between 7am and 6pm, and generally only on weekdays.
- Operations did not take place near known heritage items or areas of ecological significance.

3.3 Stage AB WRP

No environmental controls were installed for Stage AB WRP, as works for this stage had not commenced during the reporting period.

4.0 Compliance with conditions

4.1 Compliance tracking

Appendix A includes a Compliance Register that assesses compliance for each of the applicable stages of works under or about to commence for the period from January to June 2014. The Compliance Register was populated by undertaking a review of audits, incident and monthly reports, the complaints database, the project website and discussions with GTPL personnel and their contractors.

4.2 Summary of non compliances

Two non-compliances have been identified from the compliance review, which are summarised in Table 1. They are incorrect dewatering resulting in the release of sediment-laden water, and inadequate implementation and/or monitoring and reporting of landscaping activities required by the Stage A Network Landscape Management Plan.

Table 1 Non-compliances identified during January to June 2014

No	Condition	Comment
B2	Except as may be expressly provided by an Environment Protection Licence for the project, the Proponent shall comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> .	Section 120 of the POEO Act does not allow for any discharges to the environment. However, on 11 April 2014, unattended dewatering of a trench at Stage A Network East resulted in a small volume of sediment-laden water leaving the site. This was identified as a Category 1 incident by the ER as it had the potential to cause harm to the environment and was reported to DP&E and EPA. Follow up actions are described in more detail in Section 5.1.
B16(d)	The Proponent shall prepare and implement a Landscape Management Plan for the project. The Plan shall be prepared in consultation with Councils and include, but not necessarily be limited to: <ul style="list-style-type: none"> (d) procedures and methods to monitor and maintain landscaped or rehabilitated areas. 	Section 8 of the Stage A Network Landscape Management Plan (October 2012) outlines requirements for six monthly monitoring and reporting. As part of the compliance review it was observed that while the landscaping along the Stage A Network (west) alignment is mostly complete, no reports have been prepared by Woden Contractors or Able Landscaping to establish photograph monitoring points, track native cover and consider ongoing management (e.g. for weeds) as is required by the LMP. GTPL will arrange for a monitoring report for Stage A Network (west) to be prepared in accordance with the requirements of the Stage A Network Landscape Management Plan in order to document that the objectives of the plan are being achieved. Guideline ACT has addressed landscaping issues for Stage A Network (east) identified in the audit and has prepared the first six-monthly monitoring report.

5.0 Environmental incidents

5.1 Classification of environmental incidents

There are two categories of environmental incidents.

Category 1 incidents include:

- Unauthorised sediment discharge or fuel, oil or chemical spill leaving site where the pollution incident causes or threatens material harm to the environment or people (as per Part 5.7 of the *NSW Protection of the Environment Operations Act 1997* (POEO Act)).
- Unauthorised impact to threatened species and endangered ecological communities.
- Unauthorised impact to Aboriginal or non-Aboriginal heritage items, sites or relics.
- Carrying out of work without necessary approval/permit/licence.

Category 2 incidents include:

- Pollution incidents that can be cleaned up without material harm to the environment or people (as per Part 5.7 of the POEO Act).
- A non-conformance with the environmental management system that does not result in a Category 1 incident.

5.2 Category 1 incidents

There was one Category 1 incident recorded during the reporting period that occurred at Stage A Network (east) on 11 April 2014.

5.2.1 Incorrect dewatering with sediment-laden water leaving the site

Incorrect dewatering

Dewatering of a trench was undertaken on 11 April 2014 following a period of high rainfall. However, the site was left unattended for a short period of time, and the ER observed sediment laden water being pumped out of the trench, and start to exit the construction site. Whilst only a small amount of water left the construction site (which did not enter any waterways), the incident posed a potential threat to the environment so was classified as a Category 1 incident.

Guideline ACT implemented a number of follow up actions including stopping all pumping once identified by the ER, installing additional straw bales and sediment fences and conducting a tool box talk on the incident.

CEMP review

GTPL undertook a Root Cause Analysis that was then provided to DP&E on 17 April 2014. Following this, DP&E requested a review of the Stage A Network (East) CEMP. The updated CEMP and SWMP were endorsed by the ER and provided to the DP&E on 4 and 5 July 2014, respectively. A close out letter from DP&E was received 25 July 2014.

EPA involvement

The NSW Environment Protection Authority (EPA) was advised of the Category 1 incident by GTPL for Stage A Network (east) on 14 April 2014 and provided with additional follow up information and a Root Cause Analysis. GTPL has not been provided with any additional actions following this incident.

5.3 Category 2 incidents

There were no Category 2 incidents recorded during the reporting period.

6.0 Monitoring

6.1 Introduction

Environmental monitoring is undertaken to measure the effectiveness of environmental controls and the implementation of management plans, and to address approval requirements. Environmental monitoring undertaken for various stages and management plans, is outlined in this section.

6.2 Construction water quality monitoring

- Water monitoring was undertaken in March 2014 at each gully point along the alignment of Stage A Network (east) following a rainfall event. No exceedances of water quality criteria were recorded.
- No water quality monitoring was undertaken for Stage A Network (west) works as works comprised commissioning and defects works.

6.3 Noise monitoring

- Noise monitoring of equipment during construction activities at the interim reservoirs was undertaken on 14 March 2014 to check if operating efficiently and at safe levels for construction personnel. Readings exceeded the control limit of 85 dBA during some construction activities, resulting in changes to work methods including operating the backhoe with cabin door closed, and keeping personnel at least five metres away during roller operation.
- Noise monitoring has been undertaken at the closest property to SPS1 to measure noise levels from the temporary aerator and odour control unit required for operation, in response to an inquiry from a potential property owner in May 2014 (refer Section 8.1):
 - » Noise measurements taken at the property boundary when the aerator, odour control unit and temporary electrical generator were switched off was 37 dBA, and this increased to 52 dBA once the equipment was switched on.
 - » In response to the investigations, a partial enclosure has now been installed around the aerator and additional pipework has been installed at the odour control unit so that the air discharge (i.e. noise source) points away from the property boundary.
 - » Further noise monitoring is scheduled to confirm effectiveness of the attenuation measures or if additional measures are required to meet the operational noise management level of 35 dBA prescribed by CoA B1 of the Project Approval. It is noted that there are not currently private residences at this location but towards the end of the operation of the interim sewer service, houses may be built and occupied before the aerator and odour control unit are decommissioned in which case the noise level prescribed by CoA B1 could be exceeded without attenuation.
- SLR undertook attended and unattended noise monitoring at five sensitive receiver locations around the WRP site between 21 May and 1 June 2014 prior to commencement of construction of early works. The aim of this monitoring was to better understand the existing noise environment prior to commencement of the WRP works. A second round of noise monitoring will then be undertaken during the next reporting period, once works at the WRP have commenced to compare predictive modelled noise levels to actual construction noise levels, to assist in construction noise management.

6.4 Operational monitoring

Monitoring has generally been undertaken as per Table 7 of the Stage A Network Operation Environment Management Plan (OEMP), the conditions of the Deeds of Agreement between GTPL and QCC/ACTEW and EPA Consignment Authorisations.

During the reporting period, fortnightly lab testing of the sewage from SPS1 was undertaken in addition to daily recordings of pH, Oxygen Reduction Potential and temperature. The level of the wet well at SPS1 is also recorded daily along with the number of tanker movements and volume of sewage transported.

Drinking water at the interim reservoirs has been monitored and managed in accordance with the Australian Drinking Water Guidelines (NHRMC & NRMCC, 2011) and sampling and analysis of the reservoirs has been undertaken as per QCC's Interim Drinking Water Quality Management Plan. Ecowise undertake daily testing of chlorine and pH at the reservoirs. Lab analysis of other quality parameters are taken weekly (pH, free chlorine residual and bacterial analysis) and monthly (heavy metal analysis).

6.5 Surface water, aquatic ecology and groundwater

A draft Water Management Plan (CoA D8) has been prepared in consultation with agencies, councils and the Bush on Boundary community group. It outlines the approach and methodology for the Surface Water and Aquatic Ecology Monitoring Program (Appendix A) and Groundwater Monitoring Program (Appendix B). CoA D8 and SoC WQ4 require that at least one year of baseline monitoring must be undertaken prior to the discharge of recycled water. Once this baseline data is obtained, trigger levels for the IWC Project and other operational details will be included in the Water Management Plan to be submitted to the Secretary for approval.

Baseline monitoring commenced for both programs in September 2013. SMEC has been engaged by GTPL to install and monitor groundwater bores during the baseline period. Quarterly testing of ground water levels and water quality was undertaken in March and June 2014.

Sentinel has been engaged to undertake the surface water and aquatic ecology monitoring at nine sites along Googong Creek, Montgomery Creek and Queanbeyan River which involves monthly sampling of a range of water quality parameters and diatoms, with quarterly sampling of macrophytes, fish and habitat (i.e. March and June 2014).

An application to install two water-monitoring stations along the Queanbeyan River was submitted to NSW Office of Water during the previous reporting period via a request for a Controlled Activity Approval (under the *Water Management Act 2000*). The application was approved 23 February 2014 and the installation of the two monitoring stations was completed by 7 March 2014. These monitoring stations have been operational since 8 March 2014.

6.6 Meteorological conditions

A weather station was installed near the WRP site in June 2013 and has been recording meteorological data since 22 July 2013. The weather station remains operational and is being managed by Sentinel on behalf of GTPL.

7.0 Inspections and audits

7.1 Inspections

7.1.1 Stage A Network (west) construction

Weekly inspections

The OH&S Representative from Woden Contractors undertook weekly site inspections that covered broader Stage A Network (west) activities but which also included environmental aspects.

Environmental Representative inspections

The ER conducted fortnightly inspections in January 2014, which were scaled back to monthly from February 2014 given most of the work for Stage A Network (west) related to defects and commissioning works. The ER prepared reports that outlined observations and recommendations for Woden Contractors to implement, and also reviewed and approved Erosion and Sedimentation Control Plans.

During the reporting period, the ER also advised on erosion and sediment controls; and made a number of recommendations regarding weed and rehabilitation works.

A review of the documentation has indicated that the ER's observations and actions during the reporting period were of a minor nature and were addressed by GTPL and Woden Contractors.

7.1.2 Stage A Network (east) construction

Weekly inspections

Guideline ACT staff conducted weekly or fortnightly inspections of Stage A Network (east) throughout the reporting period.

Environmental Representative inspections

The ER continued to conduct fortnightly inspections of Stage A Network (east) throughout the reporting period. The ER prepared reports that outlined observations and recommendations for Guideline ACT to implement, and also reviewed and approved Erosion and Sedimentation Control Plans.

During the reporting period, the ER also advised on the installation/rectification of erosion and sediment controls, and made several recommendations regarding appropriate waste management (including litter and concrete), management and prevention of spills (including reporting and cleaning of spills, bunding), revegetation (e.g. sowing or re-sowing of seed), revisions of the Erosion and Sediment Control Plan, communicating of environmental hazards and controls to workers, and fauna management, including the erection of fencing to prevent fauna from falling into trenches.

In summary, there was one Category 1 incident relating to incorrect dewatering that was raised by the ER at the 11 April 2014 inspection (refer to Section 5.1). However a review of the documentation has indicated, that aside from the Category 1 incident, most of the ER's observations and actions during the reporting period were of a minor nature and were addressed by GTPL and the contractor.

7.1.3 Stage A Network operation

During the reporting period Ecowise carried out daily inspections of SPS1 and the interim reservoirs which included:

- Performing routine maintenance and inspection of equipment and identifying any operational, environmental and safety issues/risks.
- Checking levels of SPS1 wet well and interim reservoirs and recording which reservoir was in operation.
- Checking odour levels (H₂S) with staff wearing personal H₂S detectors at all times at SPS1.

7.1.4 Stage AB WRP (pre-construction)

No inspections were required for construction of Stage AB WRP, as works for this stage had not yet commenced during the reporting period.

7.2 Audits

NGH Environmental conducted an independent environmental audit of the IWC Project on 14 May 2014. It involved an opening meeting, site visit and inspection of Stage A Network (east) and Stage A Network (west), review of contractor's documentation, preliminary close-out meeting, review of GTPL documentation and final close-out meeting. The scope was focused on landscaping and rehabilitation given that construction works for Stage A Network (west/east) was nearing completion. A copy of the audit report was provided to DP&E and the ER on 19 June 2014.

There were seven Corrective Action Requests (CARs) and one Observation of Concern (OOC) identified for the Stage A Network (east) works which are summarised in Table 2.

Table 2 Findings and follow up actions from independent audit

No.	Section of report	Details	Follow up action
Correction Action Requests			
1	3.4.2	The Landscape Management Plan (LMP) is not a practical document that is easy to implement on site by on site staff. Given that a large portion of the LMP still requires implementation, consideration should be given to developing a practical Landscape Management Procedure or equivalent that provides guidance to the contractor of their obligations.	ACTEW and Guideline have held workshops with staff to clarify the objectives and requirements of the LMP, and its relationship with the CEMP to better assist with implementation. This included a specific focus on the Network Contractor's actions from the LMP Action Plan (Table 9).
2	3.4.2	A Bushland Regenerator was required to provide a report with mapping that identified the areas subject to weed invasion. The report has not been prepared.	The first six monthly report for the Plant Establishment Period (PEP) was provided to GTPL in June 2014, following the audit, and identified areas susceptible to weed invasion, which will continue to be monitored.
3	3.4.2	Topsoil stripping commenced prior to the Bushland Regenerator report was completed and its findings action.	It is acknowledged that topsoil stripping commenced prior to a Bushland Regenerator preparing a report to advise of any specific stripping requirements. However as the audit report notes, topsoil stripping has been undertaken in a staged approach and generally been reused in the same area which would have helped to limit potential spread of weeds. Weed control measures are in place as part of PEP monitoring.
4	3.4.2	Inadequate soil testing was undertaken prior to the commencement of landscaping works.	It is acknowledged that soil testing was not undertaken at commencement of landscaping works. However the soils on site are not identified as saline, sodic or expansive and the process during construction to strip and stockpile the topsoil for reuse in the same area would have reduced the risk of spreading any potentially chemically hostile sub-soils.

No.	Section of report	Details	Follow up action
5	3.4.2	Landscaping reporting including the 6-monthly and quarterly reports are not being completed.	As per CAR 2, the first six monthly report during the PEP was issued to GTPL in June 2014, following the audit. Quarterly reporting is the responsibility of the Landscape Overlay Contractor and is not part of the Network (east) scope.
6	3.4.2	Photographic monitoring points have not been established.	Six photographic monitoring points have now been established along the Stage A Network (east) alignment. Photos and an index map were included in the June 2014 landscaping report.
7	3.4.2	Native plant cover and weed cover targets are not being monitored.	Native plant cover and weed cover are now being monitored by Guideline and their landscape sub-contractor and will continue to be visually monitored on a six monthly basis throughout the PEP to ensure targets are met.
Observation of Concern			
1		'High weed infestation' areas are not defined in the FFMP and there are no maps that indicate where these areas are.	Appendix D of the Flora and Fauna Management Plan comprises a weed and pest management strategy and identifies weed species present in the area (refer to Table 7.3 of the plan). Section D.5 identifies three weed infestation categories within the Stage A Network (east) study area, including one of 'high weed infestation'. Section D.6 outlines the weed management procedure adapted from the Weed and Pest Management Strategy prepared by Biosis. This strategy includes the targeted removal of the three woody weeds in the 'high weed infestation' area. These areas of 'high weed occurrence' are shown in the figure 'Flora/Fauna Mapping – Vegetation communities and weed occurrence' in Appendix E, by the diagonal blue hatching in the western portion of the study area.

8.0 Environmental complaints

8.1 SPS1 noise and visual inquiry

A prospective purchaser of a lot within close proximity of SPS1 made a noise and visual inquiry over temporary cabinets including aerator and odour control unit associated with SPS1 on 17 April 2014 to the Googong sales team and the details were logged in Consultation Manager as per the Complaints Management Procedure.

As a result of the inquiry, noise consultants, SLR, undertook noise monitoring at SPS1 and noise attenuation measures have now been installed (refer Section 6.3). Further noise monitoring will be undertaken during the next reporting period to confirm effectiveness of the attenuation measures or if additional controls are required.

With regards to the visual concerns, landscaping works around the SPS1 site have now been undertaken including tree planting. Details of these follow up investigations have been provided to the stakeholder.

8.2 Other

There were no environmental complaints lodged relating to the construction/operation of Stage A Network or construction of Stage AB Water Recycling Plant.

9.0 Conclusion

This Compliance Tracking Report has been prepared for the reporting period that extended from January to June 2014 for the construction and operation of Stage A – Network (west/east) and pre-construction of Stage AB WRP.

As part of this review, two non-compliances against the IWC Project's CoA were identified. The non-compliances related to incorrect dewatering at Stage A Network (east) that had the potential to harm the environment; and the implementation of some monitoring and reporting requirements of the Stage A Network Landscape Management Plan for Stage A Network (west).

Following the dewatering incident a number of actions were carried out (refer Section 5.1). Improvements to future stage CEMPs around incident notification and emphasising soil and water impacts as a key risk for the IWC Project have been included and all briefings with future contractors include information on these topics as way of sharing lessons learned from the other stages.

For landscaping, GTPL will arrange for a monitoring report for Stage A Network (west) to be prepared in accordance with the requirements of the Stage A Network Landscape Management Plan in order to document that the objectives of the plan, such as appropriate native cover and weed management, are being achieved.

The next reporting period (July to December 2014) is likely to include the following activities: construction of permanent bulk water connection at Stage A Network (east), Stage AB WRP, pre-construction and construction of Stage B Network and operation of Stage A Network.

Appendix I

Compliance Tracking Register

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion date	Comment	Verification
1.1	The Proponent shall carry out all related projects generally in accordance with the: (a) Major Project Application 08_0236; (b) EA; (c) Submissions Report; and (d) the terms of this approval.	GTPL	Open	Compliant		Works undertaken during the reporting period have been carried out in accordance with this condition. Four consistency assessments were submitted for Stage 1 of the IWC Project. One modification (Mod 2) was submitted by GTPL to DP&E during the reporting period (and approved on 9 July 2014). Refer Section 2.4 and 2.5 of the Compliance Tracking Report for more information.	
1.2	In the event of an inconsistency between: (a) this Concept Plan approval and any document listed in 1.1(a) to 1.1(c) inclusive, this Concept Plan approval shall prevail to the extent of the inconsistency; and (b) any documents listed in 1.1(a) to 1.1(c) inclusive, the most recent document shall prevail to the extent of the inconsistency.	N/A	N/A	N/A	N/A	Noted.	
1.3	If there is any inconsistency between this Concept Plan approval and any related project approvals, this Concept Plan approval shall prevail to the extent of the inconsistency.	N/A	N/A	N/A	N/A	Noted.	
1.4	The Proponent shall comply with any reasonable requirements(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 Concept Plan approval or any related project approvals; and (b) the implementation of any actions or measures contained in these reports, plans or correspondence.	GTPL and contractor	Open	Compliant		Works undertaken during the reporting period have been carried out in accordance with this condition. No requirements were issued by the Director-General during the reporting period.	
1.5	To avoid any doubt, this Concept Plan approval does not permit the construction or operation of any projects associated with the Googong Township Water Cycle Project. Construction or operation cannot commence on any development associated with this Concept Plan unless a separate planning approval has been granted in relation to that project.	N/A	N/A	N/A	N/A	Noted. A Project Approval is in place for Stage 1 of the IWC Project.	
1.6	The Proponent may, with the Director-General's agreement, elect to meet the conditions of approval of multiple projects associated with this Concept Plan in a single consolidated manner (including through a consolidated plan or other document). In this case, the Proponent shall clearly demonstrate how the requirements of each project approval as well as the requirements of this Concept Plan approval have been addressed in the consolidated plan or document.	N/A	N/A	N/A	N/A	Noted.	
2.1	Pursuant to section 75P(2)(c) of the EP&A Act, the following environmental assessment requirements apply with respect to any future development that is subject to Part 4 or Part 5 of the EP&A Act (which are not exempt or complying development), for the subsequent project stages: (a) a detailed project description, including the design and location of ancillary infrastructure (including access roads and temporary construction compounds) and its relationship to the approved concept and approved project stages; (b) an assessment of relevant statutory matters including land zoning, permissibility and consistency with the objects of the EP&A Act; (c) a demonstration that the project is consistent with the requirements of this Concept Plan approval and generally consistent with the scope and intent of the Concept Plan and environmental impacts outlined in the documents under condition 1.1 of this approval; (d) a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment;	N/A	N/A	N/A	N/A	Condition not applicable to current works. This condition will be met during the development phase of future projects beyond Stage 1.	

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion date	Comment	Verification
	<p>(e) a description of the measures that would be implemented to avoid, minimise and, if necessary, offset the potential impacts of the project, and ensure that the project is in the public interest;</p> <p>(f) an assessment of the consistency of the potential impacts and proposed mitigation measures with the management plans approved under the Stage 1 Project and subsequent stages;</p> <p>(g) a detailed project-specific statement of commitments;</p> <p>(h) assessment of the following key issues considering all components of the project (including temporary construction facilities) and cumulative impacts from other projects associated with the Concept Plan:</p> <ul style="list-style-type: none"> ▪ Surface Water – including potential water quality impacts on local creeks and rivers and impacts on surface water flows, as a result of construction and operation of the project; ▪ Soils and Landscape – including potential soil contamination, erosion risks, irrigation and rehabilitation; ▪ Groundwater – including potential impacts on local recharge levels, contamination risks, groundwater mounding, isolated waterlogging of soils and impacts on groundwater quality; ▪ Flora and Fauna – including terrestrial riparian and aquatic, with accurate estimates of vegetation disturbance associated with the project; ▪ Heritage – both Aboriginal and non-Aboriginal, including an assessment of Aboriginal sites affected by the proposed development, their cultural value and the significance of these values for Aboriginal people; ▪ Human Health – including impacts arising from the application of recycled water and discharges of wastewater and recycled water; ▪ Waste Management – including the likely waste quantities and qualities generated during the construction (including spoil generation) and operation of the project; ▪ Hazards and Risk – including details of hazardous materials used or kept on the premises during the construction and operation phases of the project; ▪ Air Quality – including dust and odour impacts; ▪ Noise and Vibration – including construction and operation noise impacts in the context of planned urban development in the area; ▪ Visual Amenity – an assessment of the impact of the project on visual amenity, including future sensitive receptor areas, including residential; ▪ Traffic and Access – including details of transport routes to and from construction and operational sites and associated impacts to existing activities, including safety impact; <p>(i) evidence of an appropriate level of consultation with (but not necessarily limited to) the following parties, including identification of the issues raised and how these have been addressed in the assessment:</p> <ul style="list-style-type: none"> ▪ Commonwealth DSEWPac; ▪ OEH (including its Heritage Branch); ▪ Department of Primary Industries (including the NSW Office of Water); 						

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion date	Comment	Verification
	<ul style="list-style-type: none"> ▪ Department of Trade & Investment, Regional Infrastructure & Services (including its Primary Industries Division); ▪ Roads and Traffic Authority; ▪ QCC; ▪ Palerang Council; ▪ relevant service providers; ▪ property owners and the local community; and <p>(j) the environmental assessment of the project must take into account relevant State Government guidelines, policies and plans;</p> <p>(k) the assessments of the subsequent project stages shall take into account, but not limited to the following guidelines, as relevant:</p> <ul style="list-style-type: none"> ▪ National Water Quality Management Strategy: Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC 2000); ▪ National Water Quality Management Strategy – Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Natural Resource Management Ministerial Council, Environment Protection and Heritage Council and Australian Health Ministers' Conference, 2006); ▪ Environmental Guidelines: Use of Effluent by Irrigation (DEC, 2004); ▪ NSW Industrial Noise Policy (EPA, 2000); ▪ Interim Construction Noise Guidelines (DECC, 2009); ▪ Environmental Noise Management – Assessing Vibration: a Technical Guideline (DECC, 2006); ▪ Environment Criteria for Road Traffic Noise (EPA, 1999); ▪ Approved Methods for the Modelling and Assessment of Air Pollutants in NSW (DEC, 2005); ▪ Assessment and Management of Odour from Stationary Sources in NSW (DEC, 2006); ▪ Technical Notes: Assessment and Management of Odour from Stationary Sources in NSW (DEC, 2006). 						
3.1	Subject to confidentiality, the Proponent shall make all documents required under this approval available for public inspection on request.	GTPL	Open	Compliant		No requests were made to GTPL during the reporting period.	
3.2	Prior to the commencement of construction of any projects associated with this Concept Plan approval, the Proponent shall establish a dedicated website or maintain dedicated pages within its existing website for the provision of electronic information associated with the project. The Proponent shall publish and maintain up-to-date information on this website or dedicated pages including, but not necessarily limited to:	GTPL	Open	Compliant	26-Oct-12	GTPL has established a website for Googong Township Integrated Water Cycle Project. The website provides access to electronic information associated with the works.	http://compliance.googong.net/
	(a) the status of the project;	GTPL	Open	Compliant		GTPL has established a website which provides details on the status of the Stage 1 project.	As above.
	(b) a copy of this approval and any future project approvals and modifications to these approvals;	GTPL	Open	Compliant		GTPL has established a website that provides copies of the Concept and Project Approval issued under the EP&A Act for MP 08_0236, and approvals for Modification 1 and Modification 2.	http://compliance.googong.net/iwc/project-approvals.php

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion date	Comment	Verification
	(c) a copy of each relevant environmental approval, licence or permit required and obtained in relation to the project;	GTPL	Open	Compliant		In addition to the Concept and Project Approvals, the website also has copies of the EPBC Act approval, Environment Protection Licence (EPL) for construction work, Section 138 certificates and construction/occupation certificates issued to date for Stage A Network. Two approvals for water monitoring activities associated with the Water Management Plan have been issued: groundwater licence (under the <i>Water Act 1912</i>) and a Controlled Activity Approval (under the <i>Water Management Act 2000</i>). These are also available on the website.	http://compliance.googong.net/iwc/project-approvals.php
	(d) a copy of each approved plan, report, or monitoring program required by this approval and associated project approvals;	GTPL	Open	Compliant		The website provides copies of all currently approved management plans including the Community Information Plan, Pink-tailed Worm-lizard Protection and Management Plan (EPBC and EP&A Act), Googong Foreshores Interface Management Strategy (EPBC Act), Landscape Management Plan (Stage A – Network), CEMPs and OEMP for Stage A – Network (west/east), and CEMP for Stage AB WRP.	http://compliance.googong.net/iwc/ http://compliance.googong.net/epbc/
	(e) a summary of the monitoring results of the project, which have been reported in accordance with the various plans and programs approved under this approval and associated project approvals;	GTPL	Open	Compliant		A summary of monitoring activities is provided on the website.	http://compliance.googong.net/iwc/monitoring-auditing-and-compliance.php
	(f) details of the outcomes of compliance reviews and audits of the project, to the satisfaction of the Director-General.	GTPL	Open	Compliant		During the reporting period an independent audit was undertaken on 14 May 2014, a summary of audits and reviews have are available on the website.	http://compliance.googong.net/iwc/monitoring-auditing-and-compliance.php

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
A1 (modified)	The Proponent shall carry out the project generally in accordance with the: (a) Environmental Assessment (EA); (b) Statement of Commitments; (c) Googong Township Water Cycle Project Modification Assessment, prepared by Manidis Roberts and dated February 2013; and (d) conditions of this approval.	GTPL and contractor	Open	Compliant		Works undertaken during the reporting period have been carried out in accordance with this condition. Four consistency assessments were submitted for Stage 1 of the Integrated Water Cycle (IWC) Project. One modification (Mod 2) was submitted by GTPL to DP&E during the reporting period (and approved on 9 July 2014). Refer Section 2.4 and Section 2.5 of the Compliance Tracking Report.	
A2	If there is any inconsistency between the documents in condition A1, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.	GTPL and contractor	Open	Compliant		Noted.	
A3	The Proponent shall comply with any reasonable requirement(s) of the Director-General arising from the Department's assessment of: (a) any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted in accordance with this approval; (b) the implementation of any actions or measures contained in these documents.	GTPL and contractor	Open	Compliant		Works undertaken during the reporting period have been carried out in accordance with this condition. No requirements were issued by the Director-General during the reporting period.	
A4	This project approval shall lapse five years after the date on which it is granted, unless works subject of this approval have commenced before that time.	GTPL	Open	Compliant	01-Jan-13	Construction of the IWC Project (Stage A – Network (west)) commenced in January 2013.	
A5	Construction of the project may be undertaken in discrete work packages or stages. Where that occurs, these conditions of approval need only be complied with to the extent that they are relevant to that discrete work package or stage. Prior to the commencement of relevant construction or operation activities, the Proponent shall submit a Staging Report to the Director-General which: (a) describes the stages; and (b) identifies the relevant conditions of approval for each stage and how these will be addressed across and between the stages of the project.	GTPL	Complete	Compliant	28-Aug-12	GTPL prepared a Staging Report to address this condition which was provided to the Director-General on 7 June 2012. The Staging Report describes the construction stages and details how relevant conditions of approval will be met for each stage. Compliance with the conditions of approval will be monitored and documented through the six monthly compliance report. DP&I advised on 28 August 2012 that the Staging Report met the relevant requirements of the conditions of approval. An update to the stages (namely Stage AB Water Recycling Plant (WRP) to be built at the same time instead of separate A/B stages) was provided to DP&I on 30 July 2013.	Refer attached 'DP&I Acceptance Staging Report Letter_28Aug2012.pdf'
A6	With the approval of the Director-General, the Proponent may submit any strategy, plan or program required by this approval on a progressive basis.	GTPL	Open	Compliant		Noted.	
A7	The Proponent shall ensure that all licences, permits and approvals are obtained and maintained as required throughout the life of the project. No condition of this approval removes the obligation of 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.	GTPL and contractor	Open	Compliant		In addition to the Concept and Project Approvals, GTPL or its contractors have obtained an EPBC Act approval, Environment Protection Licence (EPL) for construction work, along with Section 138 certificates (refer CoA C15) and construction and occupation certificates (refer CoA A12) for Stage A Network. Two approvals for water monitoring activities associated with the Water Management Plan have been issued: groundwater licence (under the <i>Water Act 1912</i>) and a Controlled Activity Approval (under the <i>Water Management Act 2000</i>). A copy of the relevant approvals are kept at the site offices for Stage A – Network (west) and Stage A – Network (east) and the relevant offices/depots of GTPL, Queanbeyan City Council (QCC), ACTEW for the operation of Stage A Network. Not applicable for Stage AB WRP as construction had not commenced during the reporting period.	http://compliance.googong.net/iwc/approvals-licences-and-permits.php

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
A8	The Proponent shall ensure that employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.	GTPL and contractor	Open	Compliant		Competence, training and awareness requirements are detailed in Section 5 of the Construction Environmental Management Plans (CEMPs) for Stage A – Network (west/east) and Stage AB WRP. Regular toolbox talks are undertaken to provide information on responsibilities to employees, contractors and sub-contractors. Competence, training and awareness requirements are detailed in Section 5 of the Operation Environmental Management Plan (OEMP) for Stage A – Network and will be implemented during the operation phase.	
A9	The Proponent shall be responsible for environmental impacts resulting from the actions of all persons that it invites onto the site, including contractors, sub-contractors and visitors.	GTPL	Open	Compliant		Noted.	
A10	Subject to confidentiality, the Proponent shall make all documents required under this approval available for public inspection on request.	GTPL	Open	Compliant		No requests have been made during the reporting period, however GTPL will make all documents required under this approval publicly available upon request. GTPL has established a website with copies of relevant documentation.	http://compliance.googong.net/
A11	The detailed design and construction of the project shall be undertaken in consultation with Councils and include consideration of Councils' requirements in relation, but not limited, to: (a) project staging, easements and certification, (b) site access, parking and servicing, (c) safety, security, facilities and amenities, (d) site and infrastructure maintenance, (e) design and development specifications, including relevant Australian and Council codes, standards and specifications.	GTPL and contractor	Open	Compliant	01-Nov-12	As QCC is the ultimate operator for Stage A Network (west) and the Stage AB WRP, GTPL and QCC have worked closely throughout the design and construction stages to address the various elements raised in this condition. GTPL has consulted with QCC throughout the detailed design and construction of Stage A – Network (west) – refer attached. Also refer CoA A12 and construction certificates/S138 certificates that have been issued by QCC. GTPL have also been heavily involved in the planning leading up to the construction of the Stage AB WRP including monthly Design Co-ordination Meetings and Steering Committee Meetings. QCC will have an approval role the WRP design as it progresses through the Section 60 (LG Act) approval to construct process with NSW Office of Water. QCC also review each of the various management plans that are required to be prepared by the various Conditions of Approval, prior to the plans being submitted to DP&E. Palerang Council has not been involved in design of Stage A – Network (west) as this work does not fall within their local government area.	Refer attached 'QCC response to A11_Network West_1Nov2012.pdf'
					02-May-14	GTPL has consulted with Palerang Council throughout the early planning phase of Stage A – Network (east). However as Palerang Council will not own or operate the Stage A – Network (east) infrastructure, they have advised GTPL that they do not request a formal review of design elements. GTPL has consulted with Palerang Council during development of the CEMP for Stage A – Network (east). An update was then provided to Palerang in early 2014 with regards to the upcoming Bulk Water Connection (BWC) works at Stage A Network (east). Palerang had no issues with the BWC works. ACTEW (as the Principal and the future owner operator) were consulted during development of the Stage A – Network (east) CEMP. They are project managing the construction works and supervising the construction contractor (Guideline ACT). QCC has not been involved in detailed design of Stage A – Network (east) as this work does not fall within their local government area.	Refer attached 'Palerang Council A11 response_2012 and 2014.pdf'

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
A12	<p>The Proponent shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.</p> <p>Notes:</p> <ul style="list-style-type: none"> ▪ Under Part 4A of the EP&A Act, the Proponent is required to obtain construction and occupation certificates for the proposed building works; and ▪ Part 8 of the EP&A Regulation sets out the requirements for the certification of the project. 	GTPL	Open	Compliant		<p>GTPL has applied for two construction certificates from QCC for Stage A – Network (west) works. This has included for the telemetry tower and ring beam structures for the interim reservoirs. The telemetry tower construction certificate was issued 28 August 2013. The reservoir construction certificate was issued 10 February 2014.</p> <p>ACTEW and Guideline applied for a construction certificate for the pumphouse at the Bulk Water Pumping Station (BWPS) as part of the Stage A – Network (east) works. It was issued 18 October 2013. An occupation certificate for the BWPS was issued on 14 July 2014.</p>	http://compliance.googong.net/iwc/other-approvals.php
A13	The Proponent shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation or rehabilitation of the project.	GTPL and contractor	Open	Compliant		<p>GTPL has prepared CEMPs and management plans to manage risks to the environmental during construction for both Stage A – Network (west/east) and Stage AB WRP. Contractors and GTPL are responsible for their implementation.</p> <p>GTPL has prepared an OEMP for interim operations (ie operation of Stage A – Network prior to operation of the Stage AB WRP) to manage risks to the environmental during operation.</p>	
A14	<p>Prior to the commencement of construction, the Proponent shall prepare and implement a Community Information Plan which sets out the community communication and consultation processes to be implemented during construction and operation of the project. The Plan shall be prepared in consultation with QCC and to the satisfaction of the Director-General, and include, but not be limited to:</p> <p>(a) procedures to inform the local community of planned investigations and construction activities, including blasting works (if any);</p> <p>(b) procedures to inform the relevant community of construction traffic routes and any potential disruptions to traffic flows and amenity impacts;</p> <p>(c) procedures to consult with local landowners with regard to construction traffic to ensure the safety of livestock and to limit disruption to livestock movements;</p> <p>(d) procedures to inform the community where work outside the construction hours specified in condition C7, in particular noisy activities, has been approved;</p> <p>(e) procedures to inform and consult with affected landowners to rehabilitate impacted land;</p> <p>(f) procedures to inform the community of operational activities, including results of monitoring undertaken in accordance with conditions D7 to D9;</p> <p>(g) procedures to inform the community of their rights, including those relevant to the management of visual and noise amenity and the process for lodgement of complaints, as identified under this Approval.</p>	GTPL and contractor	Open	Compliant		<p>GTPL has prepared the Googong Township water cycle project – Stage 1 Community Information Plan (CIP) to address this condition. The CIP is Appendix A of the Community Engagement and Stakeholder Management Plan.</p> <p>The CIP was provided to the Director-General on 1 August 2012. QCC was also provided with a copy of the CIP for review and comment (refer attachment). DP&I advised on 21 September 2012 that the CIP met the relevant requirements of the CoA.</p> <p>The various actions prescribed in the CIP have been implemented during the reporting period.</p> <p>In addition to the CIP, GTPL has also prepared a Noise and Vibration Management Plan (NVMP) for each CEMP which details the procedure for Out of Hours Work (Attachment 1), including notification to the community.</p>	<p>Refer attached 'QCC comments Stg A Network Mgmt Plans (incl CIP)_9Aug2012.pdf'</p> <p>Refer attached 'DP&I CIP Endorsement_21Sep12.pdf'</p>

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
A15	Prior to the commencement of construction, the Proponent shall ensure that the following are available for community complaints for the life of each project related to the subject concept plan approval (including construction and operation) or as otherwise agreed by the Director-General:	GTPL	Complete	Compliant	26-Oct-12	Details on how to contact GTPL during construction has been provided through targeted mail-outs to potentially affected residents, advertising in local papers, road side signage and the project website.	http://compliance.googong.net/
	(a) a 24-hour telephone number on which complaints about construction and operational activities at the site may be registered;					GTPL has established a 24 hour toll-free community information line where complaints/enquiries can be made.	The phone number is: 1800 838 438
	(b) a postal address to which written complaints may be sent; and					GTPL has established a postal address to which written complaints can be sent.	Googong Integrated Water Cycle c/o CIC Australia PO Box 1000 Civic Square ACT 2608
	(c) an email address to which electronic complaints may be transmitted.					GTPL has established an email address to which electronic complaints can be sent.	iwc@googong.net
	The telephone number, postal address and email address shall be advertised in a newspaper circulating in the area of the project, on at least one occasion prior to the commencement of construction; and at six-monthly intervals during construction and for a period of two years following commencement of operation of the project. These details shall also be provided on the Proponent's internet site required by condition 3.2 of the associated Concept Plan Approval. The telephone number, the postal address and the email address shall be displayed on a sign near the entrance to the construction site(s), in a position that is clearly visible to the public.	GTPL	Open	Compliant		During the reporting period, one advertisement providing a construction update was included in the Queanbeyan Age on 17 January 2014. The previous advertisement was posted 13 August 2013. Signage has been provided on fencing at the construction sites and contact information is available on the website.	
A16	The Proponent shall record details of all complaints received through the means listed in condition A15 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 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 timeframes for implementing the action; 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.	GTPL	Open	Compliant		The Complaints Management Procedure is included as Appendix B of the Community Engagement and Stakeholder Management Plan. GTPL has access to Consultation Manager software to record and manage complaints and a complaints register can be generated through the software. Complaints received during the reporting period are addressed in Section 8.0 of the Compliance Tracking Report. The inquiry was passed on by the sales team and recorded in Consultation Manager in accordance with the requirements of this condition. No requests have been made during the reporting period. GTPL will continue to make the complaints register available for inspection by the Director-General/Secretary upon request.	
A17	The Proponent shall provide an initial response to any complaints made in relation to the project during construction or operation within 48 hours of the complaint being made. The response and any subsequent action taken shall be recorded in accordance with condition A16. Any subsequent detailed response or action is to be provided within two weeks, or as otherwise agreed by the complainant/Director-General.	GTPL and contractor	Open	Compliant		Complaints received during the reporting period are addressed in Section 8.0 of the Compliance Tracking Report. Follow up response and information have been provided to stakeholders in accordance with this condition.	

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
A18	Prior to the commencement of construction, the Proponent shall develop and implement a Compliance Tracking Program, to track compliance with the requirements of this approval during the construction and operation of all project and shall include, but not necessarily be limited to:	GTPL	Open	Compliant	04-Oct-12	GTPL has prepared a Compliance Tracking Program (CTP) to address this condition.	
	(a) provisions for periodic reporting of compliance status to the Director-General including at least prior to the commencement of construction of the project, prior to the commencement of operation of the project and within two years of operation commencement;			Compliant		GTPL has prepared pre-construction compliance reports for both Stage A – Network (west/east) in November and December 2012 respectively. The first two construction compliance tracking reports prepared for the period January to June 2013, and July-December 2013 have been submitted to DP&E. This compliance tracking table assesses compliance of construction and operation of Stage A – Network from January 2014 to June 2014. It also considers the pre-construction of Stage AB WRP. GTPL will continue to prepare six monthly reports to document compliance with the Minister's Conditions of Approval, Statement of Commitments and other approvals/licenses.	
	(b) a program for independent environmental auditing in accordance with AS/NZ ISO 19011:2003 – Guidelines for Quality and/or Environmental Management Systems Auditing;			Compliant		GTPL has prepared a CTP to address this condition which requires independent audits to be undertaken every six months during construction. Refer to Section 2.3 of CTP. For details of the independent audit undertaken 14 May 2014 by NGH Environmental refer Section 7.2 of the Compliance Tracking Report.	
	(c) procedures for rectifying any non-compliance identified during environmental auditing or review of compliance;			Compliant		GTPL has prepared a CTP which outlines procedures for rectifying non-compliances. Refer to Section 2.4 of CTP. Findings of the independent audit in May 2014 were provided to ACTEW and Guideline who were responsible for addressing the findings and providing a response to GTPL. More information on how non-compliances identified in the audit are addressed in Table 2 of the Compliance Tracking Report.	
	(d) mechanisms for recording environmental incidents and actions taken in response to those incidents;			Compliant		GTPL has prepared a CTP to address this condition. Refer to Section 2.5 of the CTP. Incident recording requirements are outlined in Section 7.2 of the various CEMPs and Section 7.2 of the OEMP for Stage A – Network. Contractors are required to develop and track incidents in an incident register. GTPL also maintain an overarching Environmental Incident and Non-Conformance Register for Stage 1 of the IWC Project.	
	(e) provisions for reporting environmental incidents to the Director-General during construction and operation; and			Compliant		GTPL has prepared a CTP to address this condition. Refer to Section 2.6 of the CTP. Incident reporting requirements are outlined in Section 7.3 of various CEMPs and Section 7.3 of the OEMP for Stage A – Network. Incident reporting flowcharts have been issued to all contractors and are required to be posted up in the site office. There was one Category One incident that occurred which was reported in accordance with this condition to DP&E on 14 April 2014. A detailed follow up response, including CEMP review was also provided.	
	(f) 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.			Compliant		CEMPs and management plans have been developed for Stage A – Network (west/east) and Stage AB WRP that detail the training and induction requirements for all personnel on site. Refer to Section 5 of the CEMPs. Section 4.2 of the OEMP highlights responsibilities for the different operators for Stage A – Network, specific training and induction requirements are listed in Section 5. Regular tool box talks have been undertaken during the reporting period, which have explained responsibilities for contractors, and sub-contractors working on Stage A – Network (west/east).	

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B1	The Proponent shall ensure that all the plant and equipment used on site is: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Contractor	Open	Compliant		Plant and equipment has been maintained in a proper condition during the reporting period through the implementation of the mitigation measures detailed in the Stage A – Network (west/east) Air Quality Management Plan (AQMP).	
B2	Except as may be expressly provided by an Environment Protection Licence for the project, the Proponent shall comply with section 120 of the <i>Protection of the Environment Operations Act 1997</i> .	Contractor	Open	Non compliant		Legal registers and the Soil and Water Management Plans (SWMPs) developed as part of the CEMPs for Stage A – Network (west/east), and Stage AB WRP and the OEMP for Stage A – Network outline this requirement to comply with the POEO Act. A Category 1 incident relating to incorrect dewatering and the potential to cause harm to the environment was recorded by the Environment Representative on 11 April 2014. Details on this incident and the follow up response are provided in Section 5.1.1 of the Compliance Tracking Report.	
B3	The Proponent shall provide a compensatory water supply to any land owner whose water entitlements are adversely impacted (other than an impact that is negligible) as a result of the project, in accordance with the criteria established in the Water Management Plan in condition D8. The compensatory water supply measures shall provide an alternate water supply for the duration of the impact attributed to the project. The alternate water supply shall at least be of an equivalent quality and quantity to the affected supply and be provided within 24 hours of the loss being identified, or as otherwise agreed by the affected resident/land owner. If the Proponent is unable to provide an alternative supply of water, then it shall provide reasonable alternative compensation in consultation with the affected land owner. If the Proponent and the land owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.	GTPL	N/A	N/A	N/A	Condition not applicable to construction of Stage A – Network (west/east) or pre-construction of Stage AB WRP. Condition is also not applicable to operation of Stage A – Network, as this stage does not include operation of the WRP and discharge of recycled water downstream. This condition will be met once the WRP and is operational through the implementation of the Water Management Plan (WMP) (as per CoA D8(b)).	
B4	Erosion and Sediment controls consistent with <i>Managing Urban Stormwater: Soils and Construction Manual</i> (Landcom 2004, or its latest version) are to be installed prior to the commencement of soil disturbance and maintained until such time as the disturbed area has been rehabilitated in accordance with the rehabilitation objectives in the CEMP.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) SWMPs. Erosion and Sediment Control Plans (ESCPs) have been prepared, updated and approved by the ER for both construction stages during the reporting period. Controls have generally been maintained throughout the reporting period. A SWMP has been prepared as part of the CEMP for the Stage AB WRP. It includes requirements for ESCPs.	
B5	The Proponent shall carry out rehabilitation progressively, and as soon as reasonably practicable following disturbance in accordance with Condition C20(e).	Contractor	Open	Compliant		Compliance with this condition has been managed through the mitigation measures detailed in the Stage A – Network (west/east) SWMPs and Stage A Network Landscape Management Plan (LMP). Replanting and reseeding activities of backfilled areas took place during the reporting period. Rehabilitation mitigation measures have been included in the CEMP for the Stage AB WRP and a LMP is being prepared for the WRP which also details rehabilitation.	
B6	The Proponent shall ensure no offensive odours are emitted from the project site, as defined under the <i>Protection of the Environment Operations Act 1997</i> .	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) AQMPs. There were no odour complaints made during the reporting period. An AQMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	

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B7	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 <i>Protection of the Environment Operations Act 1997</i> , if such a licence is required in relation to that waste.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) Waste and Resource Management Plans (WRMP). No waste incidents were recorded during the reporting period. A WRMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	
B8	The Proponent shall maximise the reuse and/or recycling of waste materials generated on site, to minimise the need for treatment or disposal of those materials outside the site.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) WRMPs. A WRMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	
B9	The Proponent shall ensure that all liquid and/or non-liquid waste generated by the project is assessed and classified in accordance with <i>Waste Classification Guidelines</i> (DECC 2008, or any future guideline that may supersede that document) and where removed from the site is only directed to a waste management facility lawfully permitted to accept those materials.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) WRMPs. No waste incidents were recorded during the reporting period. A WRMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	
B10	The Proponent shall ensure that no green waste is burned on site during the life of the project.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) WRMPs. There were no recorded incidents of green waste being burnt on site during the reporting period. A WRMP and AQMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	
B11	The Proponent shall limit the clearing of native vegetation to the minimum extent practicable. Details regarding the procedures for clearing vegetation, minimising the extent of clearing and the extent and location of these reductions shall be included in the Flora and Fauna Management Plan prepared in accordance with condition C20.	Contractor	Open	Compliant		The design of Stage A – Network (west/east) and Stage AB WRP has considered the need to minimise clearing of native vegetation as far as possible. Compliance with this condition and prescribing limits for clearing for Stage A – Network (west/east) and Stage AB WRP works has been managed in accordance with the mitigation measures detailed in the relevant Flora and Fauna Management Plans (FFMP). There were no recorded incidents of excessive vegetation clearing or clearing of areas not designated for clearing during the reporting period.	
B12	All hollow bearing trees shall be retained to the greatest extent practicable. Where this is not feasible, trees containing hollows shall be inspected by a suitably qualified ecologist prior to disturbance, and where native fauna are located using the tree hollows, procedures shall be developed and implemented under the guidance of the qualified ecologist to minimise impacts on the native fauna. Details of actions to be taken and measures to monitor their effectiveness shall be included in the Flora and Fauna Management Plan.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west) works and has been managed through the mitigation measures detailed in the Stage A – Network (west) FFMP and the Hollow Relocation and Nest Box Strategy. All of the required 10 nest boxes were installed prior to construction and no additional clearing took place during the reporting period. Monitoring of the nest boxes will be arranged for Spring/Summer 2014. Compliance with this condition is ongoing throughout Stage A – Network (east) works and has been managed through the mitigation measures detailed in the Stage A – Network (east) FFMP and the Hollow Relocation and Nest Box Strategy. All of the required 46 nest boxes have been installed and no additional clearing took place during the reporting period. Monitoring of the nest boxes will be arranged for Spring/Summer 2014. A FFMP and the Hollow Relocation and Nest Box Strategy has been prepared for Stage AB WRP in accordance with this condition. Nest boxes will be installed prior to commencement of clearing for this stage.	

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B13	Where possible, the removal of trees which form potential habitat for the Speckled Warbler (<i>Chthonicola sagittata</i>) shall occur outside of the August to January period breeding season of the species. If clearing cannot be avoided during this time, the area must be inspected by a qualified ecologist prior to any disturbance to identify potential nesting sites. If a nesting site is observed and it contains young, the area must be retained for at least 3 weeks to allow the young to fledge.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) FFMP. No clearing was undertaken during the reporting period. A FFMP and Vegetation Clearance Procedure have been prepared for Stage AB WRP in accordance with this condition. Clearing for the WRP is scheduled to take place prior to spring.	
B14	The Proponent shall establish and maintain in perpetuity a dedicated area of land on the project site for the conservation of the Pink-tailed Legless Lizard (<i>Aprasia parapulchella</i>) as outlined in the plan prepared in accordance with condition D9 and shown in Appendix 2.	GTPL	Open	Compliant		GTPL has prepared a Pink-tailed Worm-lizard Protection and Management Plan to address this condition. The plan details the conservation boundary and measures to establish it in perpetuity. The Plan (Rev 3) was prepared in accordance with Condition of Approval D9, and was approved by DP&I on 15 August 2013. A revised Plan (Rev 4) was then approved by DP&E on 10 June 2014. The amendments related to the removal of sewerage infrastructure works within 50 metres of the conservation area as a trigger for Year 0 works. Works for Year 0 and establishment of the conservation area will now be triggered by future subdivision works as per the amended Plan.	Refer attached 'PTWL approval letters_May&Jun2014.pdf'
B15	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) for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund; and (c) DECC's <i>Environment Protection Manual Technical Bulletin – Bunding and Spill Management</i> . 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.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) Hazard, Risk and Safety Management Plans (HRSMP). A HRSMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	
B16	The Proponent shall prepare and implement a Landscape Management Plan for the project. The Plan shall be prepared in consultation with Councils and include, but not necessarily be limited to: (a) an identification of the project elements which may impact on the visual amenity of the area and potential sensitive receiver locations, including residents of the Googong Township urban development area; (b) measures to minimise and/or avoid visual amenity impacts to sensitive receiver locations, including: (i) landscape design, including a schedule of species to be used in landscaping and revegetation; (ii) built elements, including proposed treatments, finishes and materials of exposed surfaces (including colour specifications and samples);	GTPL	Open	Compliant		GTPL has prepared a Stage A – Network LMP to address the requirements of this condition. The LMP describes the landscape and rehabilitation measures to be applied to Stage A – Network. The Stage A Network LMP was provided to QCC and Palerang Council for comment. Comments have been addressed in the final LMP. The LMP was provided to the Director-General 22 October 2012, prior to the commencement of construction of those stages. A LMP is being prepared for Stage AB WRP and will be issued to DP&E prior to commencement of works on site for the WRP Detailed Design and Construct contract (which is separate to WRP early works as per the DP&E extension letter issued on 2 June 2014). The Stage AB WRP LMP is being prepared in consultation with QCC.	Refer attached 'QCC & Palerang comments Stg A Ntwk LMP_Oct2012.pdf' and 'DP&E WRP LMP extension letter_2Jun2014.pdf'

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	<p>(iii) lighting design;</p> <p>(c) details of the timing and progressive implementation the visual mitigation works; and</p> <p>(d) procedures and methods to monitor and maintain landscaped or rehabilitated areas.</p> <p>The Plan shall be prepared and submitted to the Director-General prior to construction, unless otherwise agreed by the Director-General.</p>			Non compliant		<p>Landscaping works were the focus of the 14 May 2014 audit and there was observations made around the implementation of the Stage A Network LMP for Stage A Network (east) – refer Section 7.2 of the Compliance Tracking Report. In addition a review of documentation as part of this compliance tracking review identified that while landscaping has been undertaken for Stage A Network (west), the reporting and monitoring aspects of the LMP have not been adequately implemented. More information on this non-conformance is included in Section 4.2 of the Compliance Tracking Report.</p> <p>Refer comments above for submission of plans to DP&E.</p>	
B17	<p>The Proponent shall:</p> <p>(a) take all practicable measures to mitigate off-site lighting impacts from the construction and operation of the project; and</p> <p>(b) ensure that all external lighting associated with the project complies with Australian Standard AS4282 – 1997 – <i>Control of the Obtrusive Effects of Outdoor Lighting</i>.</p>	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) HRSMPs. No night time works have taken place and as such lighting has not been required.</p> <p>Operation of Stage A Network includes the BWPS (Network east) and Interim Reservoirs and SPS1 (Network West). The BWPS and reservoirs are located well away from receivers and the pole mounted lights are only switched on at night when required. There is no additional lighting at SPS1 except for the existing street lights.</p> <p>A HRSMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement. No night time works are currently proposed.</p> <p>The detailed design of the Stage AB WRP will consider operational lighting impacts.</p>	
C1	Prior to the commencement of construction of the project, the Proponent shall clearly define work areas (including access trails) using the measures outlined in the CEMP under condition C19. All on-site construction movements shall be restricted to these areas to prevent uncontrolled or inadvertent access by vehicles or construction personnel.	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) CEMP which includes maps with clearly defined work areas. No incidents relating to work outside these areas was recorded during the reporting period.</p> <p>A CEMP has also been prepared for Stage AB WRP which includes maps with a clearly defined work area.</p>	
C2	Prior to commencing construction of the project, the Proponent shall investigate the presence and extent of any soil contamination on the site, including but not limited to the sites identified in the EA.	GTPL	Complete	Compliant	09-Aug-12	GTPL has investigated the presence and extent of potential soil contamination for Stage A – Network and the Stage AB WRP area. A site survey was carried out by Geotechnique on 19 and 20 July 2012. No sites of potential contamination were identified.	
C3	The Proponent shall ensure any areas affected by the project that are potentially contaminated are remediated prior to commencing construction in those areas. All remediation work shall be conducted in accordance with the requirements of the <i>Contaminated Land Management Act 1997</i> and <i>Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites</i> (EPA, 1997).	GTPL	Complete	Compliant		<p>No areas of contamination were identified within the Stage A – Network (west/east) of Stage AB WRP sites prior to construction (refer CoA C2).</p> <p>Should areas of potential contamination be identified during construction of Stage A – Network (west/east) or Stage AB WRP, the potential contamination is to be managed through the implementation of the mitigation measures detailed in the Stage A – Network (west/east) and Stage AB WRP SWMPs.</p>	Refer attached 'Geotechnique Contamination Assessment_7Aug2012.pdf'

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C4 (modified)	<p>The Proponent shall salvage, through surface collection, identified artefacts at site GWTP2 prior to the commencement of construction at the water recycling plant site. Salvage should be carried out in accordance with the salvage methods described in Navin Officer Heritage Consultants Pty Ltd October 2012 "Methodology: Googong Township Truck Water Main and Recycled Water System".</p> <p>Salvaged artefacts should be relocated in accordance with the artefact relocation methods as described in Navin Officer Heritage Consultants Pty Ltd, 24 June 2010, "Back to Country Proposal to Reposition Salvaged Aboriginal Artefacts from the Googong New Town (Neighbourhood 1A) Development".</p> <p>The Proponent shall not impact any other item of Aboriginal or non-Indigenous heritage significance identified in the EA.</p>	GTPL	Open	Compliant		<p>Stage A – Network (west) works do not directly impact items of Aboriginal or non-Aboriginal heritage. Compliance with this condition will be ongoing for Stage A – Network (west) works and has been managed through mitigation measures detailed in the Stage A – Network (west) Heritage Management Plan (HMP). No heritage incidents were recorded during the reporting period.</p> <p>Stage A – Network (east) works do not directly impact items of Aboriginal or non-Aboriginal heritage. Compliance with this condition will be ongoing for Stage A – Network (east) works and has been managed through mitigation measures detailed in the Stage A – Network (east) HMP. No heritage incidents were recorded during the reporting period.</p> <p>With regards to GWTP2 – Salvage of four artefacts from the GWTP2 site was undertaken on 7 May 2013 as part of the approved salvage, referred to in this condition, prior to the commencement of the construction of Stage AB WRP (where the GWTP2 site is situated). These artefacts will be relocated following completion of the WRP works. There are no other known items of Aboriginal or non-Indigenous heritage significance within the construction footprint for the Stage AB WRP. Measures to protect heritage are included in the HMP for Stage AB WRP.</p>	Refer attached 'Stage AB WRP GWTP2 Artefact Collection_10May2013.pdf'
C5	In the event of uncovering unidentified Aboriginal objects or relics, work shall cease immediately in the vicinity of the site and the event shall be reported immediately to OEH and the Department. Relevant works shall not recommence until written authorisation from the Director-General to proceed in those areas has been received.	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) HMPs and unexpected finds procedures. No unexpected finds occurred during the reporting period.</p> <p>A HMP (including unexpected find procedure) has also been prepared for Stage AB WRP that includes mitigation measures to address the requirements of this condition.</p>	
C6	If during the course of construction the Proponent becomes aware of any previously unidentified non-Indigenous heritage object(s), all works likely to affect the object(s) shall cease immediately and the Heritage Council of New South Wales and the Department shall be notified as soon as practicable in accordance with section 146 of the NSW <i>Heritage Act 1977</i> . Relevant works shall not recommence until written authorisation from the Director-General to proceed in those areas has been received.	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) HMPs. No unexpected finds occurred during the reporting period.</p> <p>A HMP (including unexpected find procedure) has also been prepared for Stage AB WRP that includes mitigation measures to address the requirements of this condition.</p>	
C7	<p>Subject to conditions C9 and C10, construction works that would generate audible noise at any sensitive receiver shall only be undertaken during the following hours:</p> <p>(a) 7:00 am to 6:00 pm, Mondays to Fridays, inclusive;</p> <p>(b) 8:00 am to 1:00 pm on Saturdays; and</p> <p>(c) at no time on Sundays or public holidays.</p> <p>Note: this condition does not apply in the event of a direction from police or other relevant authority for safety reasons.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) NVMPs. No out of hours works took place and there were no construction-related noise complaints during the reporting period.</p> <p>A NVMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	
C8	The hours of construction specified under condition C7 may be varied with the prior written approval of the Director-General. Any request to alter the hours of construction shall be:	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works. Procedures for varying hours of construction are detailed in the Stage A – Network (west/east) NVMPs. No requests for out of hours works were made during the reporting period.</p> <p>A NVMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	

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	(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 any other information necessary to reasonably determine that activities undertaken during the varied construction hours will not adversely impact on the acoustic amenity of receptors in the vicinity of the site; and						
	(c) require that affected residential receivers are informed of the timing and duration of any construction activities approved under this condition at least 48 hours before that work commences.						
C9	<p>Any work generating high noise that has impulsive, intermittent, low frequency or tonal characteristics, including jack hammering, line drilling, pile driving, rock hammering, rock breaking, saw cutting, sheet piling, vibratory rolling but excluding blasting, shall only be undertaken:</p> <p>(a) between the hours of 8.00 am and 6.00 pm Monday to Friday;</p> <p>(b) between the hours of 8.00 am and 1.00 pm Saturday; and</p> <p>(c) in continuous blocks of no more than three hours, with at least one hour respite between each block of work generating high noise impact, where the location of the work is likely to impact the same receivers; except as otherwise approved by the Director-General.</p> <p>For the purposes of this condition "continuous" includes any period during which there is less than a one hour respite between ceasing and recommencing any of the work the subject of this condition.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) NVMPs. No out of hours works took place and there were no construction-related noise complaints during the reporting period.</p> <p>A NVMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	
C10	<p>Blasting associated with the construction of the project is only permitted during the following hours:</p> <p>(a) 9.00 am to 5.00 pm, Mondays to Fridays, inclusive;</p> <p>(b) 9.00 am to 1.00 pm on Saturdays; and</p> <p>(c) at no time on Sundays or public holidays.</p> <p>Where compelling safety reasons exist, the Director-General may permit blasting outside of these hours on a case-by-case basis where any request is accompanied by details of the nature and need for blasting outside the approved hours and the measures to be implemented to minimise impacts.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) NVMPs. No blasting was undertaken during the reporting period.</p> <p>A NVMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	
C11	The Proponent shall implement all reasonable and feasible noise mitigation measures to minimise noise generated by construction of the project, consistent with the requirements of the <i>Interim Construction Noise Guidelines</i> (DECC, July 2009).	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) NVMPs. The plan has considered the requirements of the Interim Construction Noise Guidelines. No construction-related noise complaints were received during the reporting period.</p> <p>A NVMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	
C12	The Proponent shall ensure that blasting and vibration resulting from construction of the project does not cause exceedances of the criteria in Table C1.	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) NVMPs. No blasting was undertaken during the reporting period.</p> <p>A NVMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	

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C13	At least two weeks prior to commencing blasting activities, the Proponent shall notify Council and potentially affected landowners, including details of time, location and frequency of the blasting and providing a contact point for inquiries and complaints.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) NVMPs. No blasting was undertaken during the reporting period. A NVMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	
C14	Prior to the commencement of construction of the project, the Proponent shall assess the condition of roads and footpaths which may be potentially impacted by construction of the project (including over-mass or over-dimensional vehicles), in consultation with the relevant roads authorities.	GTPL	Complete	Compliant	29-Aug-12	A pre-construction dilapidation survey of Googong Dam Road (including of existing pavement, drainage, road furniture and line markings) was carried out by Brown Consulting on behalf of GTPL in August 2012. A copy of the report was issued to QCC (road authority), and can be made available upon request.	
C15	The Proponent shall:	GTPL and contractor	Open	Compliant		A pre-construction dilapidation survey of Googong Dam Road (including of existing pavement, drainage, road furniture and line markings) was carried out by Brown Consulting on behalf of GTPL in August 2012. A copy of the report was issued to QCC, and can be made available upon request. Partial reconstruction of some sections of road has been undertaken however complete restoration has not been completed as construction works are still under way. It is likely that major restoration works will be delayed until other stages of the IWC Project are also constructed (eg Stage AB WRP and subdivision works), but partial road restoration will continue as required. Road verges have been restored in accordance with the Stage A Network LMP.	
	(a) ensure that any measures to restore roads as a result of the construction of the project, are undertaken in a timely manner, to the satisfaction of the relevant road authority and at the full expense of the Proponent;					Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and will be managed through mitigation measures detailed in the Stage A – Network (west/east) Traffic Management Protocols (TMP). No traffic/access complaints were received during the reporting period. A TMP has also been prepared for the Stage AB WRP that include mitigation measures to meet the requirements of this condition.	
	(b) ensure that adequate signage is provided to inform road users of any change in traffic conditions resulting from construction works; and					Works during the reporting period have been undertaken in consultation with QCC. No new Section 138 Certificates were required/obtained during the reporting period. Existing Section 138 Certificates are available on the compliance website.	http://compliance.googong.net/iwc/approvals-licences-and-permits.php
C16	(c) undertake all roadworks in consultation with Councils and any relevant road authority.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) AQMPs. No air quality complaints were received during the reporting period. An AQMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	
	The Proponent shall:						
	(a) implement best practice air quality management on site, including all reasonable and feasible measures to minimise off-site odour, fume and dust emissions generated by the project;						
C17	(b) minimise any visible air pollution generated by the project; and	GTPL	Complete	Compliant	21-Sep-12	Richard Sharp (NGH Environmental) has been engaged as the Environmental Representative (ER) for Stage 1 and was appointed prior to construction commencing. The ER was endorsed by the Director-General on 21 September 2012. The ER is independent of the design, construction and operation personnel and is employed by NGH Environmental. Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and Stage AB WRP works. The roles and responsibilities of the ER are outlined in Section 4.1 of the relevant CEMPs. Section 8.1 of the CEMP outlines the ER's role for regular site inspections. For Stage A – Network (west/east) the ER has undertaken fortnightly	Refer attached 'DP&I Approval Indep Env Rep_21Sep12.pdf'
	(c) regularly assess the meteorological forecasting data, and relocate, modify and/or stop activities on site to ensure compliance with the relevant conditions of this approval.						
	(a) be independent of the design, construction and operation personnel;						
	(b) oversee the implementation of all environmental management plans and monitoring programs required under this approval and advise the Proponent upon the achievement of all project environmental outcomes;						
	(c) consider and advise the Proponent on its compliance obligations against all matters specified in the conditions of this approval and any other approval, permits and/or licences; and						

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	(d) have the authority and independence to: (i) recommend to the Proponent reasonable steps to be taken to avoid or minimise unintended or adverse environmental impacts; and (ii) 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 likely to be a significant risk of an adverse impact on the environment, until reasonable steps are implemented to avoid such impact.					inspections and provided a copy of this report to DP&E, the contractor and to GTPL. A summary of the key issues identified in his inspections is included in Section 7.1 of the Compliance Tracking Report. The ER has also endorsed minor changes to the CEMPs.	
C18	The Proponent shall act on all recommendations made by the Environmental Representative(s) as soon as practicable, unless otherwise agreed by the Director-General. If the Proponent chooses not to implement recommendations of the Environmental Representative(s), it shall provide written justification of the alternate course of action to the satisfaction of the Director-General within 7 days of receiving the recommendation from the Environmental Representative(s).	GTPL and contractor	Open	Compliant		The ER makes recommendations in each of his inspection reports for all relevant construction stages and these actions are then reviewed and closed out in the next inspection report, (if adequately addressed by contractor). All ER recommendations made during the reporting period have been implemented by GTPL or their contractors.	
C19	Prior to the commencement of construction, 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 Plan shall be consistent with the <i>Guideline for the Preparation of Environmental Management Plans</i> (DIPNR 2004, or its latest revision) and shall include, but not necessarily be limited to: (a) a description of all relevant activities to be undertaken on the site during construction, including stages of construction where relevant; (b) details of measures to clearly define work areas (including access trails) using a combination of posts, fencing or markers, and suitably marked up maps, as appropriate. (c) details of mitigation, management and rehabilitation measures specific to the site that would be implemented, including but not limited to the requirements identified in the documents referred to under condition A1; (d) statutory and other obligations that the Proponent is required to fulfill during construction including all relevant approvals, consultations and agreements required from authorities and other stakeholders, and key legislation and policies; (e) a description of the roles and responsibilities for all relevant employees and contractors involved in the construction of the project; (f) a description of relevant training and induction provisions for ensuring that all employees, contractors and sub-contractors are aware of their environmental and compliance obligations under these conditions of approval; (g) measures to monitor and manage dust emissions, including dust generated by traffic on unsealed public roads and unsealed internal access tracks; (h) details of actions to be taken to address identified potential adverse environmental impacts;	GTPL	Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13	A CEMP has been prepared for Stage A – Network (west) in accordance with this condition. The CEMP was prepared in consultation with a number of agencies and stakeholders. DP&I approved the CEMP on 18 October. A CEMP has been prepared for Stage A – Network (east) in accordance with this condition. The CEMP was prepared in consultation with a number of agencies and stakeholders, including the future operator (ACTEW). DP&I approved the CEMP on 5 December 2012. A CEMP has been prepared for Stage AB WRP in accordance with this condition. The CEMP was prepared in consultation with a number of agencies and stakeholders. DP&I approved the CEMP on 11 December 2013.	

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	(i) 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;						
	(j) a complaints handling procedure during construction; and						
	(k) procedures for the update of the Construction Environmental Management Plan as necessary.						
	The CEMP shall be prepared in consultation with the relevant authorities and Councils, and submitted for the approval of the Director-General no later than one month prior to the commencement of any construction works associated with the project, or as otherwise agreed by the Director-General. Construction works shall not commence until written approval has been received from the Director-General.			Compliant	18-Oct-12	GTPL prepared the Stage A – Network (west) CEMP in consultation with the following stakeholders: QCC, Palerang Council, OEH, EPA, RMS, DSEWPaC. The CEMP was provided to DP&I for approval on 27 July 2012. The Director-General approved the CEMP on 18 October 2012.	Refer attached 'DP&I Approval Stage A Network West CEMP_18Oct2012.pdf' and 'Stage A Network CEMP agency correspondence.pdf'
					05-Dec-12	GTPL prepared the Stage A – Network (east) CEMP in consultation with the following stakeholders: QCC, Palerang Council, OEH, Environment Protection Authority, RMS, DSEWPaC. The CEMP was provided to DP&I for approval. The Director-General approved the CEMP on 5 December 2012. See correspondence attached.	Refer attached 'DP&I Approval Stage A Network East CEMP_5Dec2012.pdf' and 'Stage A Network CEMP agency correspondence.pdf'
					11-Dec-13	GTPL prepared the Stage AB WRP CEMP in consultation with the following stakeholders: QCC, OEH, Environment Protection Authority, RMS, DSEWPaC. The CEMP was provided to DP&I for approval. The Director-General approved the CEMP on 11 December 2013. See correspondence attached.	Refer attached 'DP&I Stage AB WRP CEMP approval_11Dec2013' and 'Stage AB WRP CEMP agency comments_2013'
C20	As part of the Construction Environmental Management Plan for the project, prepared under condition C19 of this approval, the Proponent shall prepare and implement the following:	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) SWMP in consultation with the following stakeholders: QCC, EPA and OEH.	
	(a) a Soil and Water Management Plan to manage water quality impacts and to minimise soil erosion and the discharge of sediments and other pollutants to lands and/or waters during construction. The Plan shall be prepared in consultation with OEH and Councils and shall include, but not necessarily be limited to:				05-Dec-12	GTPL has prepared a Stage A – Network (east) SWMP in consultation with the following stakeholders: QCC, Palerang Council, EPA, and OEH.	
	(i) detailed engineering designs for the recycled water discharge structure;			N/A		Condition not applicable to construction of Stage A – Network (west/east) or operation phase of Stage A – Network. The design of recycled water discharge structures will be undertaken during detailed design of the Stage AB WRP.	
	(ii) detailed engineering designs and rehabilitation methodology for each category of watercourse crossing;	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) SWMP in accordance with this condition.	
	(iii) a description of the quantity and source of all water supplies relating to construction, hydro-testing and operation;				05-Dec-12	GTPL has prepared a Stage A – Network (east) SWMP in accordance with this condition.	
	(iv) a description of any dewatering activities associated with groundwater interception and measures to minimise the impacts associated with dewatering activities, including the disposal or reuse of water;				11-Dec-13	GTPL has prepared a Stage AB WRP SWMP in accordance with this condition.	
	(v) details on potential occurrence of expansive soils and saline areas within the project site and management and mitigation measures;						
	(vi) details of the measures to mitigate the risk of impacting the local groundwater recharge levels (such as the planning of construction works during dry periods and the employment of construction techniques which aim to shorten the time the trenches are left open);						

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	(vii) a description of measures to minimise soil erosion and the potential for the transport of sediment to downstream waters, including progressive rehabilitation;						
	(viii) monitoring of impacts on water quality and soils;						
C20	(b) a Hazards, Risk and Safety Management Plan to address: <ul style="list-style-type: none"> (i) the safety of construction workers in the event of a flood, bushfire and any other likely hazard or risk; (ii) the management of the risk of fuel spillages and associated activities, with respect to potential groundwater contamination, including an description of designated fuel distribution points; (iii) the safety of the public (such as bushwalkers) near the site during construction, such as installation of signage and fencing as necessary; 	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13	GTPL has prepared a Stage A – Network (west) HRSMP in accordance with this condition. GTPL has prepared a Stage A – Network (east) HRSMP in accordance with this condition. GTPL has prepared a Stage AB WRP HRSMP in accordance with this condition.	
C20	(c) a Traffic Management Protocol to outline the management of traffic impacts that may occur during construction of the project. The Plan shall be developed in consultation with Councils, the RTA and any other relevant road authority and shall include, but not necessarily be limited to: <ul style="list-style-type: none"> (i) details of traffic routes for heavy vehicles, including any necessary route or timing restriction for oversized loads; (ii) measures to verify the condition of roads used by construction vehicles prior to and following construction; (iii) details of how the construction of project infrastructure will be managed in proximity to local and regional roads and with respect to sensitive receivers located in close proximity to these roads (such as maintaining access to property) and any other concurrent works occurring in close proximity to the project, such as the Googong Dam Spillway Remediation Works; (iv) detailed consideration of measures to be employed to ensure traffic volumes and acoustic and amenity impacts along heavy vehicle routes are minimised; (v) details of requirements to restore roads used for the construction of the project, including Old Cooma Road and Googong Dam Road; and (vi) demonstration that all statutory responsibilities with regard to road traffic impacts have been complied with; 	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13	GTPL has prepared a Stage A – Network (west) TMP in consultation with the following stakeholders: QCC, and RMS. GTPL has prepared a Stage A – Network (east) TMP in consultation with the following stakeholders: QCC, Palerang Council, and RMS. GTPL has prepared a Stage AB WRP TMP in consultation with the following stakeholders: QCC, EPA and RMS.	
C20	(d) a Noise and Vibration Management Plan to identify measures to monitor and manage noise and vibration and to identify all feasible and reasonable noise and vibration mitigation measures. The Plan shall be developed in consultation with OEH and QCC and include, but not necessarily be limited to:	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13	GTPL has prepared a Stage A – Network (west) NVMP in accordance with this condition and in consultation with the following stakeholders: QCC and EPA. GTPL has prepared a Stage A – Network (east) NVMP in accordance with this condition and in consultation with the following stakeholders: QCC, Palerang Council and EPA. GTPL has prepared a Stage AB WRP NVMP in accordance with this condition and in consultation with the following stakeholders: QCC, EPA and the OEH.	

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	(i) the identification all potentially affected sensitive receivers (such as future residents of the Googong township due to the undertaking of final works associated with the water recycling plant), and noise management levels;						
	(ii) a review of the assumptions made in Appendix J of the EA to the final determined construction noise levels;						
	(iii) details of the measures to avoid and/or mitigate the actual noise levels, including the noise mitigation measures identified under section 13.4.4 of the EA;						
	(iv) an assessment, if blasting is proposed, to calculate the maximum instantaneous charge (MIC) able to be used in order to meet amenity-based ground vibration and overpressure criteria in condition C12;						
	(v) details of the consultation process for noise mitigation measures with any affected sensitive receivers; and						
	(vi) details of noise monitoring to be undertaken to manage potentially elevated noise levels;						
C20	(e) a Flora and Fauna Management Plan to outline measures to protect, and minimise the loss of, terrestrial, riparian and aquatic native vegetation and native fauna habitat as a result of construction of the project. The Plan shall be prepared in consultation with OEH, DSEWPaC and QCC, and include, but not necessarily be limited to:		Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13	GTPL has prepared a Stage A – Network (west) FFMP in consultation with the following stakeholders: QCC, OEH and Commonwealth Department of the Environment (DotE) (formerly DSEWPaC). GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following stakeholders: QCC, Palerang Council, OEH and DotE. GTPL has prepared a Stage AB WRP FFMP in consultation with the following stakeholders: QCC, OEH, EPA and DotE.	
	(i) procedures for pre-construction surveys to identify key flora and fauna features within and adjacent to the construction area;						
	(ii) procedures to accurately determine the total area, type and condition of vegetation community to be cleared;						
	(iii) plan/s showing terrestrial vegetation communities, important flora and fauna habitat areas, EECs, threatened species (Hoary Sunray <i>Leucochrysum albicans</i> var. <i>tricolor</i> , Speckled Warbler <i>Chthonicola sagittata</i> and Pink-tailed Legless Lizard <i>Aprasia parapulchella</i>), weeds and areas to be cleared. The plans shall also identify vegetation adjoining the site which contains important habitat areas and/or threatened species, populations or ecological communities;						
	(iv) methods to avoid and manage potential impacts on flora and fauna species and their habitat which may be directly or indirectly affected by the project, such as location of fencing to exclude access to sensitive areas, procedures for vegetation clearing or soil removal/stockpiling and procedures for re-locating hollows or installing nesting boxes and managing weeds;						
	(v) measures for conserving and reusing topsoil;						
	(vi) procedures to be implemented for controlling weeds and feral pests;						
	(vii) rehabilitation details and success criteria;						
	(viii) a program for reporting on the effectiveness of flora and fauna management measures; and						
	(ix) a procedure to review management methods where they are found to be ineffective;						

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C20	<p>(f) a Heritage Management Plan to manage potential impacts on Aboriginal and non-Indigenous heritage items. The plan shall be prepared in consultation with OEH and include, but not necessarily be limited to:</p> <p>(i) details of measures to be carried out to avoid impacts to known and potential Aboriginal sites and deposits;</p> <p>(ii) procedures for dealing with previously unidentified Aboriginal objects (excluding human remains), including:</p> <ul style="list-style-type: none"> ▪ halting of works in the vicinity; ▪ assessment of the significance of the item(s) and determination of appropriate mitigation measures (including when works can recommence) by a qualified archaeologist in consultation with registered Aboriginal stakeholders; ▪ assessment of the consistency of any new Aboriginal heritage impacts against the approved impacts of the project; and – registering of the new site/s in the OEH AHIMS register; <p>(iii) procedures for dealing with human remains (including halting of works in the vicinity and notification of the NSW Police, OEH and registered Aboriginal stakeholders and not re-commencing any works in the area unless authorised by OEH and the NSW Police); and</p> <p>(iv) Aboriginal cultural heritage induction processes for construction personnel and procedures for ongoing Aboriginal consultation and involvement.</p>	GTPL	Open	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p>	<p>GTPL has prepared a Stage A – Network (west) HMP in accordance with this condition and in consultation with the OEH and QCC.</p> <p>GTPL has prepared a Stage A – Network (east) HMP in accordance with this condition and in consultation with the OEH, QCC and Palerang Council.</p> <p>GTPL has prepared a Stage B WRP HMP in accordance with this condition and in consultation with the OEH, EPA and QCC.</p>	
D1	<p>Noise emitted from the operation of project-related infrastructure shall not exceed 35 dB(A) (LAeq (15min)) at any residence on privately-owned land.</p> <p><i>Note: Noise generated by the project is to be measured in accordance with the relevant requirements, and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy.</i></p>	GTPL	Open	Compliant		<p>There are not yet residences built near SPS1, however a prospective buyer was concerned about the potential noise from the temporary aeration blower at a nearby block to SPS1 which they might build and occupy before the blower is to be removed. Noise monitoring indicated that the noise level at the future property boundary (yet to be sold by GTPL) was above the 35 dBA level but a range of acoustic treatments have now been installed. Further monitoring is required to confirm the reduction in noise. More information is contained in Section 6.3 and 8.1 of the Compliance Tracking Report.</p>	
D2	<p>Water provided as drinking water to service the Googong Township, as outlined under the documents referred to in condition A1, shall comply with the <i>Australian Drinking Water Guidelines 2004</i>.</p>	QCC	N/A	Compliant		<p>QCC and GTPL commenced operations of the Interim Reservoirs in February 2014. A range of monitoring and management measures are in place to ensure potable water is supplied in accordance with the guidelines.</p>	
D3	<p>Ongoing management and monitoring of the supply of the drinking water shall form part of the NSW Drinking Water Monitoring Program.</p>	QCC	N/A	Compliant		<p>QCC has prepared a Interim Drinking Water Quality Management Plan to meet this condition. GTPL, QCC and their subcontractors have been collecting a range of water quality data throughout the monitoring period.</p>	
D4	<p>Water provided as recycled water to service the Googong Township, as outlined under the documents referred to in condition A1, shall comply with <i>National Water Quality Management Strategy – Australian Guidelines for Water Recycling: Managing Health and Environmental Risks (Natural Resource Management Ministerial Council, Environment Protection and Heritage Council and Australian Health Ministers' Conference, 2006)</i>.</p>	GTPL and QCC	N/A	N/A	N/A	<p>No recycled water has been generated or discharged during the reporting period.</p> <p>However QCC has prepared a Recycled Water Quality Management Plan to support their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP. The detailed design of the Stage AB WRP will be undertaken so that the WRP can operate to meet the requirements of this plan and the D5 effluent criteria.</p>	

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D5	The recycled water discharged to the environment shall not exceed the water quality parameters identified in Table D1 below. If the results of water quality monitoring undertaken in accordance with the Water Management Plan in condition D8 indicates that the downstream ambient water quality criteria of the Queanbeyan River is exceeded as a result of the project, then the project shall be adjusted to reduce the concentration of the relevant parameters in the recycled water discharged to the environment.	GTPL and QCC	N/A	N/A	N/A	Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. No recycled water has been generated or discharged during the reporting period. The WRP will be designed so that it can treat sewage to meet the D5 effluent criteria. The OEMP for the Stage AB WRP and WMP will be the key documents to manage compliance of this condition.	
D6	No recycled water shall be discharged to the environment until at least 12 months of baseline data for the receiving waterways has been obtained and the flow release protocol has been established, in accordance with the approved Water Management Plan in condition D8.	GTPL and QCC	N/A	N/A	N/A	Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. No recycled water has been generated or discharged during the reporting period. Baseline monitoring in accordance with the draft WMP commenced in September 2013. Sentinel and SMEC have been engaged by GTPL to collect the data required in the monitoring programs.	
D7	<p>The Proponent shall prepare and implement an Operation Environmental Management Plan (OEMP) for the project, in accordance with <i>Guideline for the Preparation of Environmental Management Plans</i> (DIPNR, 2004) or its latest version. The Plan shall be prepared in consultation with Councils, OEH and NOW and include, but not necessarily be limited to:</p> <p>(a) identification of all statutory and other obligations that the Proponent is required to fulfill in relation to the operation of the development, including all consents, licences, approvals and consultations;</p> <p>(b) specific consideration of relevant measures to address any requirements identified in the documents referred to under condition A1;</p> <p>(c) a management organisational chart identifying the roles and responsibilities for all relevant employees involved in the operation of the project;</p> <p>(d) overall environmental policies and principles to be applied to the operation of the project;</p> <p>(e) management policies to ensure that environmental performance goals are met and to comply with the conditions of this approval;</p> <p>(f) standards and performance measures to be applied to the project, and means by which environmental performance can be periodically reviewed and improved (where appropriate), including 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:</p> <p>(i) detailed contingency procedures for dealing with: power failures; sewer overflow following failures at the sewage pumping stations and/or during extended periods of wet weather flows; and structural failures in the sewage and recycled water transfer pipeline infrastructure;</p> <p>(ii) noise emissions including measures for regular performance monitoring of noise generated by the project and measures to proactively respond to and deal with noise complaints;</p> <p>(iii) air quality impacts, particularly odour;</p> <p>(iv) operational traffic impacts, particularly during maintenance, and procedures to restore any damage attributable to the project during the operation phase;</p>	GTPL, contractors, QCC and ACTEW	Open	Compliant	14-Oct-13	Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. GTPL has prepared an OEMP for the operation of Stage A – Network in accordance with this condition that was submitted to the relevant agencies for comment during 2013. The OEMP was approved by DP&I on 14 October 2013. Operations then commenced in February 2014 and in addition to the OEMP, a number of Deed of Agreements are also in place between QCC and ACTEW to help manage interim operations. One noise complaint was received with regards to a blower at SPS1, and more information is provided in Section 8.1 of the Compliance Tracking Report.	Refer attached 'Stg A Network OEMP consultation_2013'

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	(v) mosquito control and the potential for algal blooms;			N/A		Mosquito risks occur as a result of the operation of the WRP and introduction of recycled water to the environment – as such it is not applicable to the operation of Stage A Network, but will be addressed in future OEMP/s for the IWC Project.	
	(vi) impacts of operational activities on the Googong Dam and foreshores area, particularly water quality;			Compliant			
	(vii) hazard and safety and emergency management measures including measures to prevent and control bushfires;						
	(g) procedures for the periodic review and update of the Operation Environmental Management Plan as necessary;						
	(h) the Management Plans listed under conditions D8 and D9; and						
	(i) the environmental monitoring requirements outlined under this approval. The 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 as otherwise agreed by the Director-General. Operation activities shall not commence until written approval has been received from the Director-General.				14-Oct-13	Operations commenced on 14 February following approval of the Stage A Network OEMP in October 2013.	Refer attached 'DP&I Approval Stage A Network OEMP_14Oct2013'
D8	The Proponent shall prepare and implement a Water Management Plan for the project to manage potential impacts on surface water and groundwater systems during operation of the project. The plan must be prepared in accordance with <i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality</i> (ANZECC & ARMCANZ, 2000), particularly Volume 1, Chapter 5: <i>Guidelines for Recreational Water Quality and Aesthetics and Volume 2, section 8.2.3: Aquatic Ecosystems</i> , and include:	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. GTPL has prepared a WMP to address this condition and which includes the monitoring programs and plans required by this condition. Baseline monitoring commenced in September 2013. The WMP will then be updated and issued to agencies for their review once baseline monitoring has been completed, and then issued to DP&I for approval prior to any discharge of recycled water to the environment.	
D8	(a) a Surface Water Monitoring Program, including: (i) procedures to obtain detailed baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the project, including relevant parameters and monitoring locations; (ii) surface water and stream health impact assessment criteria including trigger levels for investigating any potentially adverse surface water impacts and for the supply of compensatory water; (iii) a program to monitor and assess: ▪ surface water flows and quality; ▪ impacts on water users; ▪ stream health and habitat; and ▪ channel stability;	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. GTPL has prepared a WMP that includes a Surface Water and Aquatic Ecology Monitoring Program to meet the requirements of this condition. Refer to Appendix A of the WMP.	
D8	(b) a Groundwater Monitoring Program, including: (i) detailed baseline data of groundwater levels, yield and quality in the region, and privately-owned groundwater bores, that could be affected by the project; (ii) groundwater impact assessment criteria including trigger levels for investigating any potentially adverse groundwater impacts;	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. GTPL has prepared a WMP that includes a Groundwater Monitoring Program to meet the requirements of this condition Refer to Appendix B of the WMP.	

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	(iii) a program to monitor and assess: <ul style="list-style-type: none"> impacts on the groundwater supply of potentially affected landowners; impacts on any groundwater dependent ecosystems and riparian vegetation; 						
D8	(c) a Recycled Water Flow Release Protocol, including: <ul style="list-style-type: none"> (i) recommended discharge rates based on baseline data of receiving waterways and meteorological conditions; (ii) the detailed design and operation specifications for the discharge structure/s; (iii) procedures for the review and amendment of flow release protocols based on the outcomes of monitoring; 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. GTPL has prepared a WMP that includes a Recycled Water Flow Release Protocol to meet the requirements of this condition. Refer to Appendix C of the WMP.	
D8	(d) a Surface and Ground Water Response Plan, including: <ul style="list-style-type: none"> (i) a response protocol for any exceedances of the surface water and groundwater assessment criteria; (ii) measures to notify and compensate landowners of privately-owned land whose water supply is adversely affected by the project; and (iii) measures to mitigate and/or offset any adverse impacts on waterways, groundwater dependent ecosystems and/or riparian vegetation; and 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. GTPL has prepared a WMP that includes a Surface and Ground Water Response Plan to meet the requirements of this condition. Refer to Appendix D of the WMP.	
D8	(e) an Irrigation Management Plan prepared in accordance with relevant guidelines including Environmental Guidelines: Use of Effluent by Irrigation (DEC, 2004) and National Guidelines for Water Recycling: Managing Health and Environmental Risks (Natural Resource Management Ministerial Council, Environment Protection and Heritage Council and Australian Health Ministers' Conference, 2006), which must: <ul style="list-style-type: none"> (i) include detailed baseline data of the soil properties of the proposed irrigation areas, including salinity levels and a nutrient budget; (ii) identify any potential off-site risks and impacts and describe measures to minimise any environmental impacts; (iii) include a protocol for the use of recycled effluent for irrigation including application rates and restrictions; and (iv) include a program to monitor areas subject to irrigation. 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. GTPL has prepared a WMP that includes an Irrigation Management Plan to meet the requirements of this condition. Refer to Appendix E of the WMP.	
D8	The Water Management Plan and sub-plans shall be prepared in consultation with OEH, NOW, NSW Health and DTIRIS (Fisheries), and be submitted to the Director-General for approval by the end of June 2012 and prior to commencing operation of the project, unless otherwise agreed by the Director-General.	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. An extension for the submission of the WMP to 29 March 2013 was received on 21 September 2012. The draft WMP was then submitted to DP&I for review on 26 March 2013. The latest version (Rev 5) of the WMP was then issued in December 2013 following more consultation and review. The WMP will not be updated until the baseline monitoring is complete, after which time it will be re-issued to agencies for their review, and then to DP&E for approval prior to the discharge of recycled water to the environment. GTPL has prepared the WMP in consultation with the EPA, OEH, NSW Office of Water, NSW Health and Department of Primary Industries (Fisheries), QCC and ACTEW. Further consultation will take place once the WMP is updated after baseline monitoring.	Refer attached 'DP&I WMP extension approval_26Sep12.pdf' Refer attached 'draft WMP agency consultation_2013'

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
D9	The Proponent shall prepare and implement a Pink tail worm lizard protection and management plan for the project to provide and maintain habitat for the Pink-tailed Legless Lizard in accordance with condition B14. This plan must be prepared in consultation with OEH and DSEWPaC, and be submitted to the Director-General for approval by the end of June 2012. The plan must:	GTPL	Open	Compliant	10-Jun-14	GTPL has prepared a Pink-tailed Worm-lizard Protection and Management Plan to address this condition. The Plan was prepared in accordance with condition D9, and Rev 3 of the Plan was approved by DP&I on 15 August 2013. An amended version (Rev 4) was then submitted to DP&E for approval which proposed to remove IWC works within the 'year 0' line as the trigger for the implementation of the management measures, as IWC works posed no risk to the conservation area given the works are to be contained within a designated construction footprint, away from the conservation boundary. Instead conservation area measures will be deferred until subdivision works commence within the 'year 0' line. DP&E approved Rev 4 of the Pink-tailed Worm-lizard Protection and Management Plan on 10 June 2014.	Refer attached 'PTWL approval letters_May&Jun2014.pdf'
	20-May-14				The Pink-tailed Worm-lizard Protection and Management Plan (Rev 4) was developed in consultation with Office of Environment and the DotE (formerly DSEWPaC), and was approved by DotE on 20 May 2014.		
	(a) be prepared or peer reviewed by a suitably qualified ecologist;						
	(b) be based on the recommendations in the EA and the objectives of the National Recovery Plan for the species;						
	(c) outline the roles and responsibilities of parties that would implement the plan;						
	(d) set out the appropriate objectives, actions and milestones for the Proponent, prior to handing over ownership of this land to QCC;						
	(e) include:						
	(i) procedures to survey and mark the boundary of the conservation area and a 20 metre buffer zone;						
	(ii) procedures for the establishment and maintenance of boundary fencing, including measures to promote kangaroo grazing;						
	(iii) procedures and success criteria for habitat restoration and weed management;						
	(iv) procedures to control and monitor access and use of the conservation area by domestic and feral animals;						
	(v) a community education program;						
	(vi) procedures to achieve long-term security for the conservation area;						
	(vii) a program to monitor the Pink-tailed Legless Lizard population within the conservation area; and						
	(viii) a program which sets out milestone dates for achieving the actions and measures in the plan.						
D10	Prior to the commencement of operation of the project, the Proponent shall assess the condition of all public roads and footpaths traversed by construction traffic associated with the project (including over-mass or over-dimensional vehicles) in consultation with the relevant road authorities. Should this assessment identify any damage to roads or footpaths attributable to the project, the Proponent shall repair the damage to the satisfaction of the relevant road authority.	GTPL	Open	Compliant	29-Aug-12	A pre-construction dilapidation survey of Googong Dam Road (including of existing pavement, drainage, road furniture and line markings) was carried out by Brown Consulting on behalf of GTPL in August 2012. A copy of the report was issued to QCC, and can be made available upon request. Partial reconstruction of some sections of road has been undertaken however complete restoration has not been completed as construction works are still under way. It is likely that major restoration works will be delayed until other stages of the IWC Project are also constructed (eg Stage AB WRP and subdivision works), but partial road restoration will continue as required. Road verges will be restored in accordance with the Stage A Network LMP.	

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
D11	Prior to the commencement of operation, the Proponent shall submit to the Director-General details of recommendations made by the relevant road authority and how these have been addressed.	GTPL	Open	Compliant		As above.	
E1	The Proponent shall notify the Director-General and any other relevant agencies of any incident associated with the project as soon as practicable after the Proponent becomes aware of the incident. Within 7 days of becoming aware of the incident, the Proponent shall provide the Director-General and any relevant agencies with a detailed report on the incident.	GTPL and contractor	Open	Compliant		There was one Category one incident for incorrect dewatering at Stage A Network (east) that was reported to DP&E on 11 April 2014 in accordance with this condition (refer Section 5.0 of the Compliance Tracking Report for details).	
E2	The Proponent shall meet the requirements of the Director-General to address the cause or impact of any incident, as it relates to this approval, reported in accordance with condition E1 of this approval, within such period as the Director-General may require.	GTPL and contractor	Open	Compliant		Following the Category one dewatering incident on 11 April 2014, DP&E requested that a review of the CEMP be undertaken. A copy of the updated CEMP and covering letter were provided on 3-4 July 2014. DP&E issued a close out letter on 25 July 2014.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
A1	Avoid impacts on and monitor changes to aquatic ecology.	<p>Aquatic ecology impacts are considered under WQ4.</p> <p>A water quality and aquatic ecology monitoring program will be developed to monitor construction and operation impacts of the Project on waterways (refer to WQ4 for further details). The monitoring program will include siting of the aquatic ecology monitoring location to ensure viable comparison with historical and other recent river ecology data.</p> <p>Riparian vegetation, weeds and invasive scrub will be managed within the Googong township site. This will include surveying, mapping and managing invasive species.</p>	GTPL	Open	Compliant		<p>Noted.</p> <p>Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP.</p> <p>GTPL has prepared a Water Management Plan (WMP), as required by CoA D8 that incorporates the requirements of this SoC and SoC WQ4 and includes a Surface Water and Aquatic Ecology Monitoring Program. Refer to Appendix A of the WMP.</p> <p>Collection of baseline data commenced September 2013.</p> <p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) and Stage AB WRP works and will be managed through the mitigation measures detailed in the Flora and Fauna Management Plans (FFMPs) (Weed Management Strategy).</p>	
A2	Minimise impacts on aquatic habitats.	<p>Riparian zones within the Googong township site will be revegetated with species of local providence to increase stability.</p> <p>Further measures to ensure minimal impact on aquatic habitats are addressed in Statement of Commitments WQ1-WQ5.</p>	GTPL	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west) works and will be managed through mitigation measures detailed in the Stage A – Network (west) FFMP. The Stage A – Network Landscape Management Plan (LMP) also provides detail on revegetation measures to be implemented as part of Stage A – Network (west).</p> <p>There are no riparian zones affected by the construction of Stage A – Network (east) or the Stage AB WRP. No specific mitigation measures required for these stages.</p>	
AQ1	Ensure detailed design and urban layout of the Googong township meet air quality requirements for odour.	<p>The dispersion modelling undertaken as part of the Googong New Town WRP Odour Impact Assessment will be validated at a later stage in the design, for the ultimate development. This will include consideration of:</p> <ul style="list-style-type: none"> ▪ Site-specific meteorological data, collected at the WRP site for at least 12 months prior to commissioning. ▪ Site specific odour data collected during and following commissioning, prior to the residential development of the immediate area west of the WRP. 	GTPL	Open	Compliant		<p>Condition not applicable to Stage A – Network (west/east) or operation of Stage A – Network.</p> <p>This condition applies to the detailed design of Stage AB WRP that is to occur during 2014.</p> <p>Meteorological data collection at the WRP site commenced in July 2013, more than 12 months prior to the scheduled commissioning of the WRP. Data will be used to inform the detailed design of the Stage AB WRP.</p> <p>Condition not applicable to construction of Stage A – Network (west/east), construction of Stage AB WRP or operation of Stage A – Network. Odour data for the Stage AB WRP will be collected during commissioning stages of the WRP in 2015.</p>	
AQ2	Minimise odour impacts of WRP and SPS at nearby receivers.	<p>Odour control facilities at the SPSs and the WRP will be installed as detailed in the EA (refer to Sections 4.4.2 and 5.13 of Appendix B).</p>	GTPL and contractor	Open	Compliant		<p>An odour control unit and aerator/blower have been installed at SPS1 and have been operational during the reporting period.</p> <p>Condition not applicable to Stage A – Network (east), as it does not include sewage infrastructure.</p> <p>Odour control facilities for the Stage AB WRP will be included as part of the detailed design and construction which is to take place during 2014. The detailed design report will be submitted to the NSW Office of Water mid to late 2014.</p>	
AQ3	Monitor, verify then act on odour complaints.	<p>Odour complaints will be registered and investigated. Verified odour issues will be addressed with engineering, operational or other mitigation and management measures.</p>	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP.</p> <p>GTPL has prepared an OEMP for Stage A – Network that considers odour risks and complaints. Odour aboveground at SPS1 was monitored daily using an odour monitor and no odour was detected during the reporting period. In addition no odour complaints were received during the reporting period.</p>	

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AQ4	Minimise the impact of construction activities on dust generation.	The CEMP will include typical dust suppression measures. Nuisance dust will be minimised by: <ul style="list-style-type: none"> Reducing speed limits during high dust conditions. Clearing vegetation and topsoil only within the designated footprint. Progressive reinstatement of disturbed areas. Employment of water trucks to reduce dust in dry, windy conditions. 	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) Air Quality Management Plans (AQMPs). No dust complaints were received during the reporting period. An AQMP has also been prepared for the Stage AB WRP that includes mitigation measures to address this requirement.	
AQ5	Minimise dust generated by construction activities such as blasting.	Blasting will be conducted at appropriate times, with consideration of site conditions and sensitive receivers.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) Noise and Vibration Management Plans (NVMPs), AQMPs, and the Blast Management Plans. No blasting was undertaken during the reporting period. An AQMP and NVMP (that includes a requirement to prepare a Blast Management Plan if blasting) has also been prepared for the Stage AB WRP that includes mitigation measures to address this requirement.	
AQ6	Manage construction activities according to weather conditions to minimise the potential for dust storms.	Working practices will be modified during periods of high winds by limiting the use of some machinery, particularly when in close proximity to dwellings, and reducing vehicle travel speeds.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) AQMPs. No dust complaints were received during the reporting period. An AQMP has also been prepared for the Stage AB WRP that includes mitigation measures to address this requirement.	
AQ7	Avoid adverse impacts on air quality due to smoke.	The burning of material on site will be prohibited, except under the instruction of fire services.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) AQMPs. No burning took place on site and no smoke-related complaints were received during the reporting period. An AQMP has also been prepared for the Stage AB WRP that includes mitigation measures to address this requirement.	
AQ8	Minimise emissions from vehicle use.	Vehicles will be well maintained to ensure emissions are kept to the minimum practicable.	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) AQMPs. No air quality complaints were received during the reporting period. An AQMP has also been prepared for the Stage AB WRP that includes mitigations measures to address this requirement.	
C1	Put management systems in place for protection of the environment.	A construction environmental management plan (CEMP) will be developed in consultation with relevant agencies to manage the environmental issues assessed in this EA and implement the identified mitigation and management measures where required.	GTPL and contractor	Complete	Compliant	18-Oct-12	A CEMP been prepared for Stage A – Network (west). The plan was provided to relevant authorities/agencies for comment in June and July 2012. Comments were addressed and the revised Stage A – Network (west) was submitted to DP&I. DP&I approved the CEMP on 18 October 2012.	Refer attached 'DP&I Approval Stage A Network West CEMP_18Oct2012.pdf' and 'Stage A Network CEMP Agency Correspondence.pdf'
						05-Dec-12	A CEMP been prepared for Stage A – Network (east). The plan was provided to relevant authorities/agencies for comment in June and July 2012. ACTEW (as the Principal and the future owner operator) were also consulted during development of the Stage A – Network (east) CEMP. Comments were addressed and the revised Stage A – Network (east) was submitted to DP&I. DP&I approved the CEMP on 5 December 2012.	Refer attached 'DP&I Approval Stage A Network East CEMP_5Dec2012.pdf' and 'Stage A Network CEMP Agency Correspondence.pdf'

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
						11-Dec-13	A CEMP been prepared for Stage AB WRP. The plan was provided to relevant authorities/agencies for comment in 2013. Comments were addressed and the revised Stage AB WRP CEMP was submitted to DP&I. DP&I approved the CEMP on 11 December 2012.	Refer attached 'DP&I Stage AB WRP CEMP approval_11Dec2013' and 'Stage AB WRP CEMP agency comments_2013'
C2	Minimise impacts on human amenity as a result of construction hours.	Construction work will generally be undertaken between the hours of 6.00am and 7.00pm Monday to Friday, and 8.00am to 1.00pm Saturdays. At all other times, construction noise levels will be as agreed with the relevant receiver(s).	Contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) NVMPs. Construction during the reporting period was undertaken during the approved hours and no out of hours complaints were received. A NVMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	
CS1	Ensure effective consultation with community and other stakeholders is continued.	A combined consultation strategy for community stakeholders and key government agencies will continue to be implemented throughout the Project. The outcomes of ongoing consultation will continue to influence the Project.	GTPL	Open	Compliant		GTPL has prepared a Stage 1 Community Engagement and Stakeholder Management Plan. The actions of this plan have been implemented during the reporting period. This include regular and close liaison with QCC and ACTEW through design and construction and seeking feedback from other government agencies on the various management plans required for the project. In addition a Bush on Boundary (BoB) group has been formed for the Googong Township and includes representatives from local catchment management authorities, QCC and community members. The BoB group had their second meeting on 12 June 2014, where the water monitoring program and discharge modification was discussed.	
CS2	Ensure all affected stakeholders are kept informed of the construction schedule.	During construction, affected communities will be informed prior to the start of any works in their area and will be notified at regular intervals throughout the construction process according to a project-specific community engagement and stakeholder management plan.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage 1 Community Engagement and Stakeholder Management Plan and Community Information Plan. During the reporting period, notification letters were issued at the end of May prior to commencement of construction works for the Stage AB WRP which commenced 4 August 2014 (after some weather delays). Letters were sent to new residents in the township, nearby receivers and a range of other stakeholders including ACTEW, councils, local MPs, emergency services and the BoB group.	
CS3	Ensure coverage of water cycle issues in the broad community education strategy for the Googong township.	A community education strategy will be developed, which will focus on minimising environmental and human health risks associated with the use of recycled water.	GTPL	Open	Compliant		Condition not applicable to construction stages (ie Stage A – Network (west/east) and Stage AB WRP). GTPL has updated its Community Education Strategy for Stage 1 of the Googong Township Integrated Water Cycle Project in consultation with QCC and will arrange a meeting with NSW Health in the next reporting period. In addition QCC has prepared a Recycled Water Quality Management Plan that also details education and consultation strategies. GTPL and QCC will continue to progress actions before the IWC Project moves into operation phase and recycled water is available to residents.	
D1	Ensure final location and design of all water cycle infrastructure minimise impacts on natural environment and human health.	Any location and/or design changes will be subject to a consistency assessment, informed through a desktop analysis of each of the environmental issues addressed in this EA.	GTPL	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the Compliance Tracking Program (CTP) developed to meet CoA A18. The CTP details the commitment to ensure design changes are assessed for consistency with the approved project. Four consistency assessments were submitted for Stage 1 of the IWC Project, refer Section 2.4 of the Compliance Tracking Report for more information.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
D2	Ensure final location and design of all water cycle infrastructure minimise impacts on natural environment and human health.	Where any final location and/or design changes are not generally consistent with the Part 3A approval of the Project, the proponent will apply for modification under Section 75W of the EP&A Act.	GTPL	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) and Stage AB WRP works and has been managed through the CTP which details the commitment to ensure design changes are assessed for consistency with the approved project.</p> <p>One modification (Modification 2) was submitted by GTPL to DP&E during the reporting period (and approved on 9 July 2014 so the new modified conditions will be considered in the next reporting period). Refer Section 2.5 of the Compliance Tracking Report for more detail.</p> <p>No other modifications were issued for the IWC Project.</p>	
D3	Ensure final location and design of all water cycle infrastructure minimise impacts on natural environment and human health.	The construction and operation of the Project will comply with QCC's Development Specification – Googong.	GTPL and contractor	Open	Compliant		The Stage A – Network (west/east) and Stage AB WRP CEMPs have been prepared with consideration of the QCC's Development Construction Specifications which are also provided to contractors. QCC has been provided with a copy of each CEMP for review and found the document to be adequate.	
F1	Protect native flora and fauna.	A flora and fauna management plan will be prepared prior to construction as part of the CEMP. All feasible and reasonable measures will be undertaken to minimise the impact of construction on native vegetation and fauna including:	GTPL	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) FFMP in consultation with the following agencies: QCC, OEH and the Commonwealth Department of the Environment (DotE) (formerly DSEWPaC).	
						05-Dec-12	GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following agencies: QCC, OEH and DotE.	
						11-Dec-13	GTPL has prepared a Stage AB WRP FFMP in consultation with the following agencies: QCC, EPA, OEH and DotE.	
		▪ Minimising the disturbance of native flora and hollow-bearing trees.	GTPL and contractor	Open	Compliant	<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) FFMPs. Ten of the required nest boxes were installed prior to construction for Stage A – Network (west) and remained in place at the end of the reporting period. All of 46 required nest boxes have now been installed for Stage A – Network (east) and remained in place at the end of the reporting period. For both stages there were no recorded incidents of clearing beyond the survey limits.</p> <p>A FFMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>		
		▪ Implementing weed control measures.			Compliant	<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) FFMPs (Weed and Pest Management Strategy).</p> <p>A FFMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>		
		▪ Revegetating with endemic species.			Compliant	<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) FFMPs and the Stage A – Network LMP, developed to meet CoA B16.</p> <p>A FFMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement. A LMP is being prepared for Stage AB WRP.</p>		
▪ Minimising soil disturbance.			Compliant	<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) FFMPs. A FFMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>				

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
		<ul style="list-style-type: none"> Implementing clearing protocols to protect flora and fauna. 					<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) FFMPs. Refer to Table 5.1 and Attachment 2 (Vegetation Clearing Procedure). Areas to be protected (i.e. Endangered Ecological Communities) have been fenced off with signage. Tree felling was undertaken under the supervision of a qualified ecologist.</p> <p>A FFMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	
F2	Protect threatened flora and fauna.	<p>The Flora and fauna management plan (within the CEMP) will contain specific additional measures for threatened species, including:</p> <ul style="list-style-type: none"> Only approved works will be undertaken within 5m of a threatened species and exclusion fencing will be erected around threatened flora species and threatened fauna habitats and maintained in place until such time as construction works are completed, unless otherwise approved by OEH. Site-specific management measures will be implemented for the protection of the Pink-Tailed Worm Lizard near the site proposed for SPS2 and at Hill 800, and for the Hoary Sunray near the BWPS site, including exclusion zones, signage and pre-construction surveys. These works will be undertaken under the supervision of an appropriately qualified ecologist. 	GTPL	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p>	<p>GTPL has prepared a Stage A – Network (west) FFMP in consultation with the following agencies: QCC, OEH and DSEWPaC.</p> <p>GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following agencies: QCC, OEH and DSEWPaC.</p> <p>GTPL has prepared a Stage AB WRP FFMP in consultation with the following agencies: QCC, EPA, OEH and DoE (formerly DSEWPaC).</p>	
		<ul style="list-style-type: none"> Only approved works will be undertaken within 5m of a threatened species and exclusion fencing will be erected around threatened flora species and threatened fauna habitats and maintained in place until such time as construction works are completed, unless otherwise approved by OEH. 	GTPL and contractor	Complete	Compliant		<p>The requirements of this commitment has been managed through the mitigation measures in the Stage A – Network (west/east) FFMPs that detail management measures for working in proximity to native vegetation (flora and fauna constraints maps). Areas to be protected (i.e. Endangered Ecological Communities) have been fenced off with signage throughout the reporting period.</p> <p>There are no threatened species/habitat present at the Stage AB WRP site, and so no exclusion fencing will be required.</p>	
		<ul style="list-style-type: none"> Site-specific management measures will be implemented for the protection of the Pink-Tailed Worm Lizard near the site proposed for SPS2 and at Hill 800, and for the Hoary Sunray near the BWPS site, including exclusion zones, signage and pre-construction surveys. These works will be undertaken under the supervision of an appropriately qualified ecologist. 		Open			<p>Condition not applicable to construction of Stage A – Network (west) or Stage AB WRP as these works are not located in the vicinity of the Pink-tailed Worm-lizard habitat or Hoary Sunray.</p> <p>GTPL has prepared a Stage A – Network (east) FFMP that details management measures for working in proximity to Hoary Sunray population (flora and fauna constraints maps). The Hoary Sunray population remained fenced off during the reporting period.</p>	
F3	Protect terrestrial flora and fauna.	An Operational environmental management plan (OEMP) will be prepared for the Project, and implemented. This will detail emergency, spill and maintenance procedures as well as monitoring and reporting regimes as they relate to the protection of terrestrial and aquatic ecology.	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east) and Stage AB WRP.</p> <p>GTPL has prepared an OEMP for Stage A – Network but operations for this stage do not involve discharge of water to the environment or risks to aquatic ecology. The OEMP for the Stage AB WRP and the WMP will be the key documents to manage the requirements of this condition. Baseline monitoring for the WMP commenced in September 2013.</p>	
G1	Prevent impacts to groundwater recharge.	Timing of trench construction will be monitored and planned to ensure, where practical, the time the trench is open is reduced and during periods of low rainfall.	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) SWMPs. No groundwater issues were identified during the reporting period.</p> <p>A SWMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	

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G2	Minimise groundwater contamination	<p>Site environmental management measures will be developed and outlined in the CEMP with the purpose of minimising the potential for spills to occur and implementing remedial actions (refer to SG1). These will include:</p> <ul style="list-style-type: none"> Mapping unregistered nearby groundwater bores, if identified. Ensuring that all refuelling, where possible, occurs at designated fuel distribution points. These points will be underlain by compacted earth to prevent the significant loss of fuel to the ground during a spill and will be bunded to contain large spills. 	GTPL and contractor	Complete	Compliant		<p>GTPL has prepared SWMPs for Stage A – Network (west/east) and Stage AB WRP that outline management measures and procedures relating to spills.</p> <p>Letters inviting nearby property owners to participate in baseline monitoring were issued late 2013, and a site visit to two interested property owners was undertaken in December 2013. It was later discussed and noted that the two bores would not be able to be sampled for technical and access reasons.</p> <p>GTPL has prepared SWMPs for Stage A – Network (west/east) and the Stage AB WRP that outline management measures and instructions around refilling. No refuelling spills were recorded during the reporting period.</p>	
G3	Monitor groundwater quality to minimise adverse impacts.	<p>Develop a groundwater monitoring program for the Project in consultation with relevant stakeholders. This program will address the following:</p> <ul style="list-style-type: none"> The salt levels in groundwater will be regularly monitored during and after Stage 1 of the Project. Groundwater samples will be collected from both the shallow and regional aquifers, and soil conductivity (that is, salt) mapping will be carried out where possible in areas of inferred impact. The monitoring of salt levels in the receiving waters will be indicative of the effectiveness of the stormwater system (refer below). 	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP.</p> <p>GTPL has prepared a Groundwater Monitoring Program as part of the WMP in accordance with this SoC and in consultation with relevant stakeholders. Baseline monitoring commenced in September 2013.</p>	Refer attached 'draft WMP agency consultation_2013'
G4	Minimise impact on drainage.	Develop the layout of infrastructure to reduce the impact on natural surface and subsoil drainage.	GTPL	Open	Compliant		The WRP, BWPS, SPS1 and Interim Reservoir sites have been designed to minimise earthworks so that the impact natural surface level is minimised. This will in turn minimise the impact on subsoil drainage.	
G5	Minimise the potential for groundwater mounding.	Construct in accordance with the approved materials and provisions of water supply code (WSA) 03-2002 to minimise leakage from water cycle infrastructure.	Contractor	Open	Compliant		The WRP, BWPS, SPS1 and Interim Reservoir sites have been designed in accordance with the Water Supply Code.	
G6	Minimise the potential for waterlogging.	<p>The risks associated with waterlogging will be considered and accommodated through the design of the drainage system.</p> <p>Irrigation systems will be designed and scheduled to avoid overwatering.</p>	GTPL	Open	Compliant		<p>This commitment is being met through the design of the reticulation network in the subdivision in addition to the IWC infrastructure.</p> <p>Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP and relates more to the subdivision works where green space is to be irrigated during the long term. An Irrigation Management Plan for communal green space areas that will be irrigated with recycled water has been prepared as part of the WMP to meet the requirements of this commitment.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
G7	Minimise salinity impacts on soil and plant growth.	Soil monitoring in low-lying areas, where salt is likely to accumulate, will be undertaken. If salt levels were shown to be increasing, engineered drainage structures to nearby creek lines will be constructed.	GTPL	Open	N/A		Condition not applicable to construction of Stage A – Network (west/east) and Stage AB WRP. GTPL has prepared a WMP that addresses soil monitoring. Soil monitoring will be undertaken prior to commencement of operation of the WRP and once subdivision works have been completed in Neighbourhood 1A.	
		As a preventative measure, to avoid future bare soil patches and erosion, salt-tolerant landscaping will be used in low-lying areas.			Compliant		A LMP for Stage A – Network has been prepared with consideration for salt-tolerant landscaping. The Part 4 subdivision works have also had regard for this SoC and salt tolerant plants have also been established in the township. Future LMPs for the IWC Project will also take into account the need for salt-tolerant landscaping in low-lying areas where relevant.	
G8	Further investigate the groundwater environment, potential changes to recharge, and likelihood of long-term impacts.	Undertake the groundwater monitoring program as outlined in Table 12 of this report.	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. GTPL has prepared a Groundwater Monitoring Program in accordance with this commitment (refer to Appendix B of the WMP) to better understand the existing groundwater conditions. Baseline monitoring commenced in September 2013.	
H1	Avoid and/or minimise impacts on indigenous heritage.	Generally, indigenous heritage on the site will be managed in accordance with Appendix G of the EA, including the four identified indigenous heritage sites. The avoidance, relocation or disturbance of any Aboriginal heritage sites and PADs will be in accordance with relevant guidelines and permits. An archaeologist and representatives of the local Aboriginal community will conduct any relocation works.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) Heritage Management Plan (HMPs). There were no heritage incidents recorded during the reporting period. A HMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	
H2	Protect unknown indigenous heritage.	Should any unknown indigenous heritage items be located during the proposed works by the site environmental officer or any other construction staff, all work will cease in the vicinity of the find until specialist indigenous heritage advice is received.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) HMPs. Refer also to Attachment 2 (Unexpected Heritage Finds Procedure). No unexpected finds occurred during the reporting period. A HMP for Stage AB WRP has also been prepared and includes mitigation measures to address this requirement, (including an Unexpected Heritage Finds Procedure).	
HH1	Ensure recycled water meets all relevant guidelines.	Recycled water will meet the requirements for non-potable domestic use as defined in the <i>Australian Guidelines for Water Recycling: Managing Health and Environmental Risks</i> (NRMMC, EPHC & AHMC, 2006). Recycled water will be appropriately planned and industry accepted management systems put in place to assure appropriate product quality.	GTPL and QCC	N/A	N/A	N/A	Condition not applicable to construction of Stage A – Network (west/east) or operation of Stage A – Network, as they do not involve the construction/operation of the WRP (and hence supply of recycled water to the township). QCC has prepared Recycled Water Quality Management Plan (RWQMP) as part of their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP, which addresses the requirements of this commitment. The detailed design of the Stage AB WRP will be undertaken so that the WRP can operate to meet the requirements of this plan and the D5 effluent criteria.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
HH2		<p>A Recycled Water Risk Management Plan (RWRMP) will be prepared based on the risk management framework outlined in <i>Australian National Guidelines for Water Recycling – Managing Health and Environmental Risks</i> (2006). This RWRMP will be a living document that will be refined throughout operation of the recycled water scheme. It will involve:</p> <ul style="list-style-type: none"> ▪ Developing the RWRMP through hazard identification (for the operation of the recycled water system and use of recycled water). ▪ Identifying the significant human and environmental health risks. ▪ Conducting validation, operational and verification monitoring to determine the success of the following respective components of the scheme: the risk management system, preventative measures, and the achievement of safe and sustainable water recycling. ▪ Completing the RWRMP, based on the monitoring results. 	GTPL and QCC	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east) or operation of Stage A – Network, as they do not involve the construction/operation of the WRP (and hence supply of recycled water to the township).</p> <p>QCC has prepared RWQMP as part of their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP, which addresses the requirements of this commitment. The detailed design of the Stage AB WRP will be undertaken so that the WRP can operate to meet the requirements of this plan and the D5 effluent criteria.</p>	
HH3	Reduce risks associated with exposure to recycled water.	<p>The Proponent will apply the following risk management practices to limit exposures to recycled water:</p> <ul style="list-style-type: none"> ▪ Installation regulations and codes of practice that include systematic processes to reduce the probability of cross-connections. ▪ Materials codes and regulations that easily discriminate drinking and recycled water plumbing. ▪ Regulations that limit the legal installation and modification of plumbing systems to licensed individuals. ▪ Education on recycled water use and the need to avoid creating cross-connections. ▪ Installation of backflow prevention. ▪ Operational checking (that is, testing of recycled effluent quality following treatment) and connection auditing. ▪ Continue to liaise with relevant stakeholders to ensure awareness and understanding of the Project (including discharges of excess recycled water to the environment) and to address arising issues. 	GTPL and QCC	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east) or operation of Stage A – Network, as both do not involve the construction/operation of the WRP (and hence supply of recycled water to the township).</p> <p>QCC has prepared RWQMP as part of their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP, which addresses some of the requirements of this commitment.</p> <p>Design guidelines and a plumbing standard for builders and property owners in the township have also been developed and distributed to help ensure the recycled water network is installed correctly. Also refer to Statement of Commitment CS3 for more information on the Community Education Strategy and communication around recycled water for operation.</p>	http://googong.net/sales/design-guidelines.php

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
N1	Minimise the noise impact associated with construction.	Construction noise and vibration management strategies will be outlined in the CEMP. Measures will include the overall construction times (refer to C2) as well as the following:	GTPL	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A – Network (west) NVMP that details measures to manage noise and vibration impacts in accordance with this commitment. No construction-related noise complaints were received during the reporting period.	
		05-Dec-12				GTPL has prepared a Stage A – Network (east) NVMP that details measures to manage noise and vibration impacts in accordance with this commitment. No construction related noise complaints were received during the reporting period.		
		11-Dec-13				GTPL has prepared a Stage AB WRP NVMP that details measures to manage noise and vibration impacts in accordance with this commitment. Construction of the WRP had not yet commenced during the reporting period.		
		<ul style="list-style-type: none"> ▪ Construction noise goals. ▪ Liaising with community to advise on likely timing and duration of noisy activities. ▪ Procedures for resolving complaints received from residents and landowners and dealing with exceedances (including the appointment of a liaison person to maintain relationships between the community and the construction contractors in accordance with AS 2436:1981 <i>Guide to noise control on construction, maintenance and demolition sites</i>). ▪ Using noise abatement measures (physical and managerial) where reasonable and feasible. ▪ Procedures for liaising with the relevant agencies to discuss the need to construct outside of regular hours, for specific cases. 						
N1A	Assess the potential for vibration impacts should blasting be required.	Should blasting at the WRP or SPS sites be necessary based on geotechnical information and construction methodology, a construction vibration assessment will be undertaken in accordance with <i>Assessing Vibration: A Technical Guideline</i> (DECC, 2006) to determine any additional management measures required for blasting activities.	Contractor	Open	Compliant		<p>No blasting was undertaken during the reporting period, however NVMPs and Blast Management Plans are in place for both Stage A – Network (west/east) works that considered vibration impacts.</p> <p>A NVMP has been prepared for Stage AB WRP to meet the requirements of this condition, and includes a requirement to prepare and implement a Blast Management Plan (with vibration assessment) if blasting is required.</p>	
N2	Meet noise requirements near the WRP site boundary during operations.	The acoustic treatments specified for the WRP components, as outlined in Appendix J, will be implemented and then reviewed for effectiveness following noise measurement verification.	GTPL	N/A	N/A	N/A	<p>Condition not applicable to construction of Stage A – Network (west/east) or operation of Stage A – Network.</p> <p>Noise attenuation will be considered as part of the detailed design for the Stage AB WRP. Some initial noise modelling has been undertaken during the reporting period based on the updated concept design to help understand what kind of acoustic treatments will be required for the design. Operational noise testing will be undertaken as part of commissioning for the WRP.</p>	
NH1	Avoid and/or minimise impacts on non-indigenous heritage.	<p>Generally, non-indigenous heritage on the site will be managed in accordance with Appendix G of the EA.</p> <p>Construction and maintenance activities will be managed to avoid structural damage on heritage items as a result of vibration.</p> <p>Construction activities will be excluded from the identified heritage sites. However, if impacts are unavoidable then a further heritage assessment of the impacted site(s) will be conducted.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) HMPs. There were no heritage incidents to non-Indigenous heritage items recorded during the reporting period.</p> <p>A HMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
NH2	Continue to investigate heritage values of site GH14 (refer to Section 7.3 of Appendix G of the EA).	Investigation into the value of site GH14 is continuing. The results of this study will inform the approach to mitigation of impacts to non-indigenous heritage.	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) and Stage AB WRP, or the operation of Stage A – Network as works will not impact on site GH14. GH14 is located in the subdivision works for the township and the management of this heritage item is being managed under the subdivision works program and a Part 4 (EP&A Act) approval. GTPL has completed excavation works at this site, carried out under a S146 permit under the NSW <i>Heritage Act 1977</i> and the item is currently stored in a container. The structure will be re-built when the subdivision works are completed.	
NH3	Protect unknown non-indigenous heritage items.	If any material of potential archaeological significance is unearthed, work will cease in the vicinity of the find until specialist heritage advice has been obtained. The NSW Heritage Council will be notified of the discovery of any relics.	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) HMPs. No unexpected finds occurred during the reporting period. A HMP has also been prepared for Stage AB WRP and includes mitigation measures to address this requirement.	
OP1	Ensure comprehensive monitoring of operation of the water cycle.	Establishment and location details for monitoring sites will be in accordance with WQ4. Results of all monitoring programs that form part of these Statement of Commitments will be considered in terms of overall environmental impact on a regular basis, including: <ul style="list-style-type: none"> ▪ The trade-off between potable water savings, reduction in stormwater discharges and increased recycled water discharges. ▪ Relative impacts of excess recycled water discharges compared to impacts on soil and groundwater from recycled water uses. ▪ The timeframe for relative comparisons of impacts of components of the water cycle will be determined in consultation with the relevant government agencies. ▪ The ability to feedback results for further stages of Googong township. 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. GTPL has prepared a WMP to meet this condition (refer CoA D8), and baseline data currently being obtained will be used to set appropriate operational triggers for the WRP and assist with the management of the WRP in accordance with this condition. Baseline monitoring commenced in September 2013.	
OP2	Ensure comprehensive monitoring of operation of the water cycle.	Telemetry will be installed on all major water cycle infrastructure to gather operational data.	GTPL	Open	Compliant		Telemetry has been installed at the BWPS, Interim Reservoirs and SPS1 during construction. GTPL has prepared an OEMP for Stage A – Network that outlines requirements to obtain operational data from the telemetry which will help to inform design for future stages.	
OP3	Adaptive management	Management plans will be reviewed with consideration of the outcomes of monitoring programs: <ul style="list-style-type: none"> ▪ Additional management and mitigation measures will be implemented, should monitoring identify that the water cycle system is operating outside of modelled or expected parameters. 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) and Stage AB WRP. GTPL has prepared an OEMP for Stage A – Network and WMP that includes information about the review of management plans and adaptive management. Note that the operation of Stage A – Network does not involve the discharge or water to the environment. Future OEMPs will consider in more detail the additional mitigation measures to address when the water cycle infrastructure is operating outside the modelled or expected parameters.	
R1	Manage the operational risks associated with storage and delivery of chemicals.	Measures typical of facilities of the nature and size of the Project will include: <ul style="list-style-type: none"> ▪ Storing relevant chemicals below threshold quantity levels. ▪ Undertaking activities in accordance with relevant MSDS's. 	GTPL and contractor	Open	Compliant		Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) HRSMPs. No storage or chemical-related incidents were recorded during the reporting period. A HRSMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
		<ul style="list-style-type: none"> Installing bunded areas for the storage and delivery of chemicals in accordance with AS 3780:2008 <i>The storage and handling of corrosive substances</i> and the relevant MSDS's. Developing and implementing appropriate procedures for delivery, handling and accidental spills of chemicals. 						
R2	Manage risks in emergency and/or maintenance situations at the key infrastructure.	<p>The OEMP and RWRMP will outline the management of emergency situations for all key water cycle infrastructure. For emergency or maintenance events associated with the WRP, the following will be implemented/installed, and will include measures such as:</p> <ul style="list-style-type: none"> Telemetry at all key infrastructure (e.g. SCADA). An alarm system. Backup procedures should the power to infrastructure be interrupted. First flush tank at the WRP and wet well emergency storage at the SPS's. Overflows at the WRP and the SPS's. 	GTPL, QCC and ACTEW	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east) and Stage AB WRP. However the detailed design of the WRP will consider emergency infrastructure requirements as required by this condition.</p> <p>GTPL has prepared an OEMP for Stage A – Network that includes information about emergency situations as required by this condition (telemetry, alarms, and back up power supply – NB the storage at SPS1 is for ultimate development and the expected volumes in SPS1 during the operation of Stage A – Network prior to commissioning at the WRP would be lower so that not all the emergency storage or emergency overflow would need to be utilised).</p> <p>In addition, QCC has prepared RWQMP as part of their application to NSW Office of Water under Section 60 of the <i>Local Government Act 1993</i> to construct the WRP, which helps to address the requirements of this commitment.</p>	
S1	Ensure proper management of soils.	<p>Soil and water management plans will be developed and implemented for the construction phase, via the CEMP, in accordance with <i>Managing urban stormwater: soils and construction, Volume 1</i> (the 'Blue book').</p> <p>Soil types will be identified and delineated within the study area. Soil management measures will be developed according to soil type and be documented in the CEMP.</p>	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) SWMPs.</p> <p>A SWMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	
S2	Prevent soil erosion and minimise loss of topsoil.	<p>The CEMP will detail erosion and sedimentation control measures, to maintain surface and soil stability at all times during cut and fill excavation activities (also necessary to ensure site safety).</p> <p>Graded soil will be stockpiled separately so that local soils can be recovered for respreading. During restoration and cleanup, the following will be applied in relation to stabilisation of soils:</p> <ul style="list-style-type: none"> Reprofiling of the site to achieve soil stability and congruity with the surrounding landscape. This will be done in consideration of the landscape and open space strategy (LOSS) for the Googong township. Reseeding and the use of geotextile materials as required. 	GTPL and contractor	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p>	<p>GTPL has prepared a Stage A – Network (west) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.</p> <p>GTPL has prepared a Stage A – Network (east) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.</p> <p>GTPL has prepared a Stage AB WRP SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
		<ul style="list-style-type: none"> Backfilling of trenches in layers with compaction. Management and exclusion of site access to assist with site recovery. 						
S3	Prevent and manage spills.	<p>To prevent and manage spills, the proponent will:</p> <ul style="list-style-type: none"> Implement chemical transport, storage, handling and disposal procedures, in accordance with requirements for dangerous goods, of environmental legislation and industry standards. Ensure spill response procedures and equipment for containment and recovery are available on site. Conduct workforce training on the transport, storage, handling and disposal procedures relating to chemicals. 	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west) SWMPs. There were no chemical spill incidents recorded during the reporting period.</p> <p>A SWMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	
S4	Manage potential and/or real soil contamination on site.	<p>To manage soil contamination, the proponent will:</p> <ul style="list-style-type: none"> Manage contaminated soil disposal or removal from site in accordance with OEH <i>Waste Classification Guidelines</i>. Conduct further investigations at the newly identified area of concern (AEC – identified as Site 3 in Section 9.3.5 of the EA) prior to construction. An OEH accredited site auditor will provide advice on the need for further investigations at AEC3, if it is to be disturbed by the Project. Develop a sampling strategy for AEC2 (shown in Section 9.3.5 of the EA) as soon as the existing uses at the site cease, in consultation with an OEH accredited site auditor. <p>If potential or actual contamination is found during earthworks, stop all work in the affected area until a suitably qualified person has inspected the site, the hazard has been assessed and appropriate action has been taken (including delineating areas of concern as required until earthworks can resume safely).</p>	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) SWMPs. No contamination issues were recorded during the reporting period.</p> <p>A SWMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p> <p>No contaminated waste/spoil was identified during the reporting period.</p>	
				Complete	Compliant	09-Aug-12	GTPL has investigated the presence and extent of potential soil contamination for Stage A – Network and Stage AB WRP. A site survey was carried out by Geotechnique on 19 and 20 July 2012. No sites of potential contamination were identified.	Refer attached 'Geotechnique Contamination Assessment_7Aug2012.pdf'
				N/A	N/A	N/A	The contamination assessment found that given the AEC2 was situated away from the Stage A – Network and Stage AB WRP sites, such that a desktop study and walkover / site inspection of the site was sufficient due diligence.	
				Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) SWMPs. No contamination issues were recorded during the reporting period.</p> <p>A SWMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
S5	Ensure minimal impact on soil salinity and groundwater quality.	<p>Ensure that appropriate materials are used to mitigate against the corrosive impacts of high salinity.</p> <p>Design, where possible, the salt sensitive urban stormwater drainage system to direct potential saline runoff to a water body that is able to assimilate the expected salt load being applied to the landscape, without adverse impacts on aquatic and riparian ecosystems. Place and design built structures in consideration of existing and potential soil salinity levels.</p> <p>The proposed WRP should be designed to minimise the need for additions of chemicals for phosphorus removal, to minimise salt loading. The Proponent will explore options to switch off the phosphorus removal process during peak irrigation demand periods in accordance with Statement of Commitment OP1.</p> <p>Early stages of Googong township will be used as a trial to better understand the movement of salt in the landscape. It will involve the installation of carefully located piezometers and the monitoring of results, as well as monitoring the effectiveness of pre-emptive measures such as any subsurface drainage system. The results will be used to improve strategies for ensuing stages.</p> <p>Recycled water users will be informed of the specific risks associated with irrigation with recycled water, in the context of developing a complete awareness of the Project and its environmental trade-offs. This will include:</p> <ul style="list-style-type: none"> ▪ Education on salinity impacts on soil and plant damage and regrowth. ▪ Encouragement to grow salt-tolerant species, particularly in areas considered to be of high risk. <p>Householders will be educated on the benefits of using detergents that are low in phosphorus, sodium and salt – in terms of the impact on recycled water quality. This will form part of the broad community education program.</p>	GTPL	N/A	N/A	N/A	<p>Condition not applicable to construction of Stage A – Network (west/east) or operation of Stage A – Network. This condition will be met during detailed design and construction phases of Stage AB WRP.</p> <p>Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP. This condition will be met during detailed design phase for the stormwater ponds as part of the Part 4 subdivision works.</p> <p>Condition not applicable to construction of Stage A – Network (west/east). This condition will be met during detailed design phase for the WRP and implementation of the WMP (as per CoA D8) that has been prepared and will be updated prior to operation of the WRP.</p> <p>Condition not applicable to construction of Stage A – Network (west/east) and Stage AB WRP. GTPL has prepared an Irrigation Management Plan, as part of the WMP to address this condition. Refer to Appendix E of the WMP. Soil monitoring will be undertaken prior to commencement of operation of the WRP and once subdivision works have been completed in Neighbourhood 1A.</p> <p>Condition not applicable to construction of Stage A – Network (west/east), Stage AB WRP or operation of Stage A – Network as the WRP will not be operational. GTPL has updated its Community Education Strategy for Stage 1 of the Googong Township IWC Project in consultation with QCC and will arrange a meeting with NSW Health in the next reporting period. In addition QCC has prepared a RWQMP that also details education and consultation strategies. GTPL and QCC will continue to progress actions before the IWC Project moves into operation phase and recycled water is available to residents.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
T1	Minimise disturbance to local traffic and amenity during construction.	<p>A traffic management plan will be prepared prior to the commencement of construction. It will detail traffic arrangements for the construction phase of the Project. This will include:</p> <ul style="list-style-type: none"> ▪ The use of standard mitigation and management controls. ▪ Planning of vehicle use to maximise efficiency and reduce vehicle trips. ▪ An education program for construction personnel in relation to local traffic arrangements (as per the plan) and local conditions (such as the intersection of Googong Dam Road and Old Cooma Road). ▪ Access to properties and provisions for temporary access. <p>A traffic control contractor will be engaged to implement the traffic management plan (such as partial road closures), where necessary specialist advice is required.</p>	GTPL and contractor	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p>	<p>GTPL has prepared a Stage A – Network (west) Traffic Management Protocol (TMP) in accordance with this commitment and in consultation with the following agencies: QCC and RMS.</p> <p>GTPL has prepared a Stage A – Network (east) TMP in accordance with this commitment and in consultation with the following agencies: QCC, Palerang Council, and RMS.</p> <p>GTPL has prepared a Stage AB WRP TMP in accordance with this commitment and in consultation with the following agencies: QCC, EPA and RMS.</p>	
T2	Manage traffic, transportation and access with local authorities.	Traffic, transportation and access will be managed in consultation with relevant stakeholders, including QCC and the RTA, including impact mitigation and management measures to address partial road closures, access to properties and provisions for temporary access and re-instatement.	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) TMP.</p> <p>Two Section 138 Certificates have been issued by QCC for works on Googong Dam Road under the <i>Roads Act 1993</i>.</p> <p>A TMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	http://compliance.googong.net/iwc/other-approvals.php
T3	Minimise the impact of transportation.	Any oversized or overweight loads will be transported in accordance with RTA guidelines and requirements.	Contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) TMP. No permits have been required to date.</p> <p>A TMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	
T4	Minimise impact of traffic and access on stakeholders and the local community.	Councils, property owners and local community members will be informed of any potential loss of or disruption to access to properties, roads and/or pathways. Appropriate temporary measures to either provide alternative access or to reinstate access at the end of each workday will be negotiated with relevant parties.	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through the mitigation measures detailed in the Stage A – Network (west/east) TMP.</p> <p>A TMP has also been prepared for Stage AB WRP that includes mitigation measures to address this requirement.</p>	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
T5	Manage operational traffic, transportation and access to minimise impacts on local conditions.	<p>A Traffic management plan will be prepared for the operation and maintenance of key water cycle infrastructure, which will include:</p> <ul style="list-style-type: none"> Standard management and mitigation measures for managing vehicle movements at water cycle infrastructure sites. Timing of truck movements for deliveries and disposal, and parking arrangements. 	GTPL and contractor	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (west/east) or Stage AB WRP.</p> <p>A TMP for tankering operations during operation of Stage A – Network is included in the OEMP (refer Appendix E) which addresses these conditions. Routes, access arrangements, timing restrictions and parking arrangements are detailed in the TMP.</p>	
V1	Minimise visual impact by maintaining existing vegetation where practical.	At relevant sites, existing vegetation will be maintained where practical and where appropriate. Additional vegetation will be planted along site boundaries to obscure views of infrastructure from sensitive receivers.	GTPL and contractor	Open	Compliant		<p>Compliance with this condition is ongoing throughout Stage A – Network (west/east) works and has been managed through mitigation measures detailed in the Stage A – Network (west/east) FFMPs and limiting clearing as much as practicable.</p> <p>A FFMP and LMP have also or are being prepared for the Stage AB WRP that includes mitigation measures to address this requirement.</p> <p>Visual planting was included as part of the LMP for Stage A – Network. Replanting has been undertaken along Googong Dam Road for Stage A Network (west) including trees and shrubs around the aboveground cabinets at SPS1. Screen planting is not required for Stage A Network (east) given the distance of sensitive receivers.</p>	
V2	Minimise the visual impact of the reservoirs and access road (located on Hill 800).	<p>Visual impact of the reservoirs will be minimised through painting the structures a colour that will be chosen as the most compatible and/or appropriate with the surrounding environment and proposed Googong township.</p> <p>The landscaping approach for the reservoirs and associated access road will ensure minimal visual impact by:</p> <ul style="list-style-type: none"> Achieving the most appropriate finished landform profile of the top of the hill that integrates the reservoirs. 	GTPL	N/A	N/A	N/A	Condition not applicable to Stage 1 (ie Stage A and B). This condition will be met during detailed design phase of the permanent reservoirs (Stage C/D).	
		<ul style="list-style-type: none"> Detailing siting and design of any elements over and above the reservoirs to minimise visibility (e.g. plant equipment, fencing, signage and lighting). Ensure the access road alignment is a careful balance of limited visible road profile and minimised cutting/embankment visibility where following contours. Considering the location and extent of tree groups to best mitigate visual impacts. Considering soil and microclimate factors and amelioration to ensure healthy and rapid tree growth. 						

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W1	Practice responsible resource management during construction.	<p>The CEMP will address the principles of the resource management hierarchy (avoidance, resource recovery and disposal in that order) and disposal will be to a licensed waste facility. The CEMP will include the following:</p> <ul style="list-style-type: none"> ▪ Procedures to classify waste types in accordance with the Waste Classification Guidelines and NSW legislative requirements. ▪ Resource recovery and re-use strategies for each waste type. ▪ Details of treatment and storage of on-site waste. ▪ Procedures and disposal arrangements for relevant materials. ▪ Reporting and recording requirements for all waste movements, allowing determination of recycling and re-use levels achieved. 	GTPL and contractor	Complete	Compliant	<p>18-Oct-12</p> <p>05-Dec-12</p> <p>11-Dec-13</p>	<p>GTPL has prepared a Stage A – Network (west) Waste and Resource Management Plan (WRMP) that outlines the principles of the resource management hierarchy. No waste management issues were recorded during the reporting period.</p> <p>GTPL has prepared a Stage A – Network (east) WRMP that outlines the principles of the resource management hierarchy. No waste management issues were recorded during the reporting period.</p> <p>GTPL has prepared a Stage AB WRP WRMP that outlines the principles of the resource management hierarchy. No waste management issues were recorded during the reporting period.</p>	
W2	Practice responsible resource management during operation.	<p>Operational management of wastes will be incorporated into the OEMP for the key sites. Some inclusions are procedures for:</p> <ul style="list-style-type: none"> ▪ The collection and transportation of grit and screenings from the WRP to an appropriately licensed facility. ▪ Treatment and handling of biosolids, suitable for use in agriculture, forestry, soil and site rehabilitation (Grade B), in accordance with OEH's Environmental Guidelines on the Use and Disposal of Biosolids Products (2007). ▪ Management and monitoring of the discharge of treated effluent (recycled water) during commissioning and verification phases of the WRP operation. ▪ Waste management for putrescible and recyclable wastes generated from the WRP and other water cycle infrastructure. ▪ Procedures for the collection and dewatering of any solid matter removed through maintenance activities of water cycle infrastructure, and transportation and disposal off site. ▪ Vehicle routes, and the timing of trips, associated with waste management, in consideration of the traffic management plan. 	GTPL	Open	Compliant		<p>Condition not applicable to construction of Stage A – Network (east/west) and Stage AB WRP. GTPL has prepared an OEMP for Stage A – Network that includes mitigation measures to meet the requirements of this commitment. In addition a TMP (refer Appendix E of the OEMP for Stage A – Network) has also been prepared that details vehicle routes for sewage tankering from SPS1.</p>	

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WQ1	Implement water quality and hydrology management procedures.	To reduce risks associated with water quality, soil and water management plans will be developed and implemented for the construction phase, via the CEMP, in accordance with <i>Managing urban stormwater: soils and construction, Volume 1</i> (the Blue book).	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13	GTPL has prepared a Stage A – Network (west) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment. GTPL has prepared a Stage A – Network (east) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment. GTPL has prepared a Stage AB WRP SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	
WQ2	Minimise the risk of surface water contamination.	A spill management and response procedures will be developed in the CEMP for the construction phase of the Project. These will specify that: <ul style="list-style-type: none"> Any fuels and chemicals will be stored to meet relevant standards in bunded or contained areas and a spill kit will be provided at all locations where fuels and/or chemicals are used. Fuel and chemical storage sites will not be located in the vicinity of any permanent and/or flowing waterway. The maintenance or refuelling of equipment will not be undertaken within the vicinity (within 150m) of any waterway. 	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12 11-Dec-13	GTPL has prepared a Stage A – Network (west) SWMP that outlines the spill management response in accordance with this commitment. GTPL has prepared a Stage A – Network (east) SWMP that outlines the spill management response in accordance with this commitment. GTPL has prepared a Stage AB WRP SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	
WQ3	Ensure bank stabilisation in construction sites.	The CEMP will incorporate measures to ensure that creek banks are stabilised during the construction phase, such as: <ul style="list-style-type: none"> Stabilising where required by establishing rocks, sandbags/ matting to prevent scouring, ensuring that they are placed to conform as far as possible with existing contours. Respreading topsoil over the area from where it was removed. 	GTPL and contractor	Complete	Compliant	18-Oct-12 05-Dec-12	GTPL has prepared a Stage A – Network (west) SWMP that outlines the measures to stabilise creek banks. GTPL has prepared a Stage A – Network (east) SWMP that outlines the measures to stabilise creek banks. There are no creek banks at the Stage AB WRP construction site.	
WQ4	Monitor impacts on waterways.	A monitoring program to assess the potential impacts of the Project on the Queanbeyan River (including water quality, flow, fish migration, macrophytes and macro invertebrate communities) will be undertaken. <ul style="list-style-type: none"> Details of the monitoring program will be determined in consultation with relevant government authorities/stakeholders (including the OEH, DPI and, potentially, ACTEW Corporation). Such consultation will ensure the sharing of available data for the Queanbeyan River for comparative and impact assessment purposes. 	GTPL	Open	Compliant		Condition not applicable to construction of Stage A – Network (west/east) and Stage AB WRP. GTPL has prepared a Surface Water and Aquatic Ecology Monitoring Program as part of the WMP (refer CoA D8) to address this commitment. Condition not applicable to construction of Stage A – Network (west/east) and Stage AB WRP. The WMP was developed in consultation with the stakeholders listed in this condition – refer attached correspondence.	Refer attached 'draft WMP agency consultation_2013'

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		<ul style="list-style-type: none"> A new monitoring site within the Queanbeyan River is proposed to measure water quality and aquatic ecology impacts over the medium term. This site will be located near the confluence of Googong Creek and Queanbeyan River (and will be sited to enable comparison with data collected from upstream and downstream sites). Monitoring will commence approximately 12 months prior to commissioning the water recycling plant. 					<p>Surface/groundwater monitoring commenced in September 2013 to allow for at least 12 months of monitoring prior to operation of the WRP. The WMP will be updated with the monitoring results, issued to agencies for review and submitted to DP&I for approval, prior to operation of the WRP. In total there are nine monitoring sites including near the confluence of Googong Creek and Queanbeyan River.</p> <p>Monitoring commenced in September 2013 which is more than 12 months from the scheduled commissioning date where recycled water would be discharged (ie mid 2015).</p>	
WQ5		The operation environmental management plan (OEMP) will outline erosion and sediment control measures to protect buffer and riparian vegetation zones, in general accordance with Statement of Commitment WQ3.	GTPL	N/A	N/A	N/A	Condition not applicable to the operation of Stage A – Network as it does not include discharge of water to the environment and so there are no additional risks to downstream vegetation zones.	