



Compliance Tracking Report January to 5 July 2016

Googong Township Integrated Water Cycle Project

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1 Introduction

1.1 Background

Googong Township Pty Ltd (GTPPL) – a joint venture between Canberra Investment Corporation (CIC) and Mirvac – is responsible for the development of the new Googong township located in the Canberra region, around seven kilometres south of Queanbeyan in NSW. The new Googong township will be home to about 18,000 people and developed over 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 IWC Project is being constructed and operated in stages to ensure the infrastructure is appropriately sized to meet the incremental level of demand and development of the Googong township progresses. Once operational, the stages are handed over from GTPPL to Queanbeyan-Palerang Regional Council (QPRC, formerly Queanbeyan City Council) or Icon Water.

On 24 November 2011, the Minister for Planning issued a Concept Approval for the ultimate development (Stage 1 and 2) and a Project Approval for Stage 1 development of the IWC Project under Part 3A (now repealed) of the *Environmental Planning and Assessment Act 1979* (EP&A Act). Stage 1 included 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. Stage 1 was delivered in four sub-stages that have been progressively handed over to the relevant entity, once operational (refer Table 1.1).

Table 1.1 Stage 1 handover dates

Stage	Handover date	Operator
Stage A Network (east)	19 June 2015	Icon Water
Stage A Network (west)	25 February 2015 (interim reservoirs), 5 July 2016 (sewage pumping station)	QPRC
Stage B Network	9 May 2016	QPRC
Stage AB WRP	5 July 2016	QPRC

1.2 Purpose

The Compliance Tracking Program for the IWC Project, required by Condition of Approval A18, was approved by the Department of Planning and Infrastructure (now the Department of Planning and Environment (DP&E)) in October 2012 and stipulates that a compliance tracking report must be prepared every six months during the construction period of the IWC Project, and annually during the first two years of operation.

Pre-construction compliance reports for the first two construction stages were prepared in late 2012, and six construction and operational Compliance Tracking Reports were then prepared for the following periods:

- January to June 2013
- July to December 2013
- January to June 2014
- July to December 2014
- January to June 2015

- July to December 2015.

This Compliance Tracking Report assesses compliance for the period January up to 5 July 2016, which was the handover date of the WRP to QPRC. It is noted that while operational compliance tracking reports need only be issued on an annual basis, GTPL has prepared this Compliance Tracking Report to capture the period from the previous report through to handover of the WRP from GTPL to QPRC, which also was the final stage of the Approved Project.

This Compliance Tracking Report has considered the operation (process verification) of the WRP along with broader IWC Project requirements, noting that the operational compliance of the other sub-stages that have been handed over, is the responsibility of the asset owner (i.e. Icon Water and QPRC).

Lastly, an Independent Environmental Representative (ER) has been appointed for the construction phase of the IWC Project (Richard Sharp, Ecology and Heritage Partners) who was independent of the IWC Project and who oversaw the implementation of all environmental management plans and monitoring programs and advised on compliance obligations. As the IWC Project moved from construction to operation, the ER role ended in May 2016.

1.3 Structure of this 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
- Performance of environmental controls – Section 3
- Compliance with conditions and summary of non-compliances – Section 4
- Environmental incidents – Section 5
- Outcomes of monitoring – Section 6
- Outcomes of inspections and audits – Section 7
- Complaints – Section 8
- Conclusion - Section 9
- Compliance Tracking Register - Appendix A.

2 Scope of activities

2.1 Stage AB Network

2.1.1 Operation – Stage AB Network

During the reporting period, GTPL was responsible for the operation of Sewage Pumping Station (SPS) 1 (Stage A Network West) and SPS 2 (Stage B Network). The operation of the interim reservoirs (Stage A Network West) was the responsibility of QPRC, while the operation of Stage A Network East was the responsibility of Icon Water. Each of the operators adhered to the approved Stage AB Network Operation Environmental Management Plan (OEMP). This report addresses only the operational activities of GTPL.

2.2 Stage AB WRP

2.2.1 Operation – Stage AB WRP (process verification)

Process verification of the Stage AB WRP commenced on 3 December 2015 and included a 21 day reliability test, followed by a 90 day reliability test.

These reliability tests allowed the WRP to be tested under 'operational' circumstances to maintain the plant to a standard expected of a sewage treatment plant in NSW, but all recycled water was discharged to the environment instead of being used in the township (as it had not yet been approved for distribution). This discharge occurred under Environmental Protection Licence (EPL) 20188 issued to GTPL by the EPA, and which was transferred to QPRC on 2 May 2016.

Following the process verification period, Stage AB WRP was handed over from GTPL to QPRC on 5 July 2016. QPRC, as the asset owner and operator, are now eligible to apply for their Section 60 approval under the *Local Government Act 1993* to distribute and use recycled water throughout the township. As of 28 February 2017, this approval was still outstanding.

2.3 Consistency assessments

There was one consistency assessment submitted to DP&E during the reporting period; a consistency review for the increase of the maximum design equivalent population (EP) from 3,600 EP to 4,700 EP for Stage 1 of the IWC Project. This assessment was lodged to DP&E on 26 May 2016.

In addition, a consistency review was undertaken on the detailed design of the chemical storage area at the Stage AB WRP which changed the location and operation of this area from the concept design for the Approved Project. This assessment has been submitted to DP&E with this report.

2.4 Modifications

There were no requests to modify the Concept Approval or Project Approval during the reporting period.

3 Environmental controls

3.1 Introduction

Environmental controls should be implemented in a manner that avoids or minimises the impact of the project to the environment and the community, at both construction and operation stages. This section outlines the environmental controls that have been implemented as part of the operation of the IWC Project during the reporting period, as construction activities were complete as of January 2016.

3.2 Stage AB Network

3.2.1 Operation – Stage AB Network

As per the mitigation measures prescribed in the Stage AB Network OEMP, the necessary environmental controls for Stage AB Network were implemented by GTPL, QPRC and Icon Water. Construction activities had ceased by January 2016, and the ER closed out the construction period by conducting final monthly inspections until May 2016.

3.3 Stage AB WRP

3.3.1 Operation – Stage AB WRP

Environmental controls have been implemented as per the mitigation measures prescribed in the Stage AB WRP OEMP. The implementation of these measures for construction activities have been monitored and assessed through monthly inspections carried out by the ER, and for operational conditions have been monitored through monthly assessments and reports prepared for GTPL by John Holland Pty Ltd (JHPL, GTPL's construction contractor).

The ER identified minor landscaping and fencing issues that would need to be rectified to avoid future impacts to sediment near a drainage line and fencing infrastructure.

The monthly reports prepared by JHPL provided GTPL with a track record of progress on environmental performances and information regarding various aspects of environmental monitoring, including inspections, incidents, non-conformances and non-compliances, complaints and enquiries. Refer to Table 4.1 for further information on non-compliances identified during the reporting period.

4 Compliance with conditions

4.1 Compliance tracking

Appendix A includes a Compliance Tracking Register that assesses compliance for each of the applicable stages of works being constructed or operating during the reporting period from January to 5 July 2016. The Compliance Tracking Register was populated by undertaking a review of audits, incident and monthly reports, the complaints database, the project website and discussions with GTPPL personnel and their contractors.

4.2 Summary of non-compliances

Four (4) non-compliances have been identified from the compliance review, which are summarised in Table 4.1.

Table 4.1 Non-compliances identified during January to 5 July 2016.

CoA	Condition	Comment
A1	<p>The Proponent shall carry out the project generally in accordance with the:</p> <ul style="list-style-type: none"> (a) Environmental Assessment (EA), (b) Statement of Commitments, (c) Googong Township Water Cycle Project Modification Assessment, prepared by Manidis Roberts and dated February 2013; (d) Modification to Approved Project: Googong Township Integrated Water Cycle Project – Proposed Discharge Point at Googong Creek, prepared by RPS Manidis Roberts and dated March 2014; and (e) conditions of this approval. 	<p>The detailed design for Stage AB WRP relocated and changed the operation of the chemical storage area from the concept design for the Approved Project. A consistency review was not completed prior to the construction of this area.</p> <p>A consistency review has been undertaken for this design change and is being submitted to DP&E with this report.</p>
A15	<p>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.</p>	<p>At the end of the last reporting period, one advertisement providing a construction update was included in the Queanbeyan Age on 11 December 2015. The most recent construction update was included in the Queanbeyan Age on 22 July 2016, more than six months from the previous update.</p> <p>Signage had been in place for the duration of the reporting period on fencing at the construction sites and contact information was available on the website.</p>

CoA	Condition	Comment
D5	<p>The recycled water discharged to the environment or any water discharged to the environment through Discharge Point 3 shall not exceed the water quality parameters identified in Table D1 below.</p> <p>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.</p>	<p>The WRP has been designed so that it can treat sewage to meet the D5 effluent criteria. The OEMP for the Stage AB WRP and Water Management Plan (WMP) are the key documents to manage compliance of this condition.</p> <p>During the reporting period, weekly effluent monitoring was undertaken at nine locations. From 1 June to 20 June 2016, the WRP was discharging water with elevated levels of ammonia. After investigating the exceedance in consultation with MWH (GTP's engineers) and JHPL (operators of the WRP), GTP understands that the elevated ammonia levels were attributable to the following factors:</p> <ul style="list-style-type: none"> ▪ Onset of winter and colder temperatures, which led to reduced nitrification performance in the bioreactor. ▪ Coincidentally, due to commissioning there was also more frequent operation of the centrifuge, which then returned high ammonia centrate back to the bioreactor. This additional nitrogen load is significant at this stage given the incoming wastewater load is low in comparison to the design load. ▪ Less onsite monitoring of the filtrate ammonia, which led to late detection of the exceedance (the monitoring program prepared for the WRP recommends daily monitoring when coming into winter, which would have identified this exceedance prior to the formal results which take two weeks). <p>However, since the monitoring results from 1 June 2016 became available, a number of trouble-shooting measures have been implemented at the WRP, and the ammonia levels remained below the 90th percentile of 2 mg/L from 20 June 2016 to the end of the reporting period.</p>
D5A	<p>Prior to the discharge of any water to the environment through Discharge Point 3, evidence of compliance with the water quality parameters identified in D5 must be provided for the Secretary's information.</p>	<p>On 27 November 2015, prior to the discharge of any water, water monitoring data was sent to the EPA and no issues were raised. However, due to an oversight the data was not provided to DP&E.</p>

5 Environmental incidents

5.1 Categorisation of environmental incidents

There are two categories of environmental incidents for the project.

Category One 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 *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 Two 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 One incident.

5.2 Category One incidents

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

5.3 Category Two incidents

There were two Category Two incidents recorded during the reporting period:

- On 18 February 2016 a small leak in the ferric sulphate dosing line was caught in double containment, but was released as the double containment drain valve was left open. A small quantity (<1 L) of ferric sulphate then pooled on the ground and dried. No environmental damage was caused as the leaked chemical did not leave the site. Once the leak was discovered the valve was closed, and the spilled chemical and any affected dirt was cleaned and disposed of appropriately.
- On 14 June 2016 a high ammonia reading was identified following the receipt of the monitoring results from the off-site lab. Off-spec recycled water discharged from the off-spec water tank into Googong Creek from 1 June to 20 June 2016 showed ammonia levels had exceeded the 90th percentile concentration limit set by the EPL 20188 condition L2.4. After investigating the exceedance in consultation with MWH (GTP's engineers) and JHPL (operators of the WRP), GTP understands that the elevated ammonia levels were attributable to the following factors:
 - Onset of winter and colder temperatures, which led to reduced nitrification performance in the bioreactor.
 - Coincidentally, due to commissioning there was also more frequent operation of the centrifuge, which then returned high ammonia centrate back to the bioreactor. This additional nitrogen load is significant at this stage given the incoming wastewater load is low in comparison to the design load.

- Less onsite monitoring of the filtrate ammonia, which led to late detection of the exceedance (the monitoring program prepared for the WRP recommends daily monitoring when coming into winter, which would have identified this exceedance prior to the formal results which take two weeks).

However, since the monitoring results from 1 June 2016 became available, a number of trouble-shooting measures have been implemented at the WRP, and the ammonia levels remained below the 90th percentile of 2 mg/L from 20 June 2016 to the end of the reporting period.

6 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 monitoring

No construction monitoring was undertaken during this reporting period as all construction activities had ceased by January 2016.

6.3 Operational monitoring

Operational monitoring has generally been undertaken as per Table 7 of the Stage AB Network and Stage AB WRP OEMPs, the conditions of the Deeds of Agreement between GTP/L and QPRC/Icon Water and EPA Consentment Authorisations. In particular, the following monitoring activities were undertaken:

- Drinking water at the interim reservoirs has been monitored and managed in accordance with the Australian Drinking Water Guidelines (NHRMC & NRMMC, 2011).
- Sampling and analysis of the reservoirs has been undertaken as per QPRC's Interim Drinking Water Quality Management Plan.
- Following commencement of process verification in early December 2015, JHPL carried out weekly laboratory analysis of the Stage AB WRP recycled water discharged to Googong Creek in accordance with the conditions of EPL 20188.

6.3.1 Surface water, aquatic ecology and groundwater monitoring

A Water Management Plan (WMP) (and associated sub-plans) prepared to meet the requirements of CoA D8, and updated following the completion of baseline monitoring (which was carried out from September 2013 to December 2014) and subsequently approved by DP&E on 10 November 2015.

The implementation of the WMP commenced in early December 2015, in conjunction with the commencement of discharge of recycled water to the environment, as part of the process verification for Stage AB WRP.

The Surface Water (and Aquatic Ecology) Monitoring Program (SWAEMP) and Groundwater Monitoring Program (GWWMP) are sub-plans of the WMP and outline the requirements for surface water and groundwater monitoring to satisfy the CoAs and Statement of Commitments (SoCs) for Stage 1 of the IWC Project. These requirements include outlining the baseline data levels, parameters to be assessed, location and frequency of testing, management measures and appropriate responses to address any exceedances of trigger levels.

Water-monitoring stations (for water quality) have been installed along the Queanbeyan River. These monitoring stations have been operational since March 2014.

During this reporting period, the following additional monitoring was undertaken in accordance with the SWAEMP and GWMP:

- Surface water - ambient water quality sampling and laboratory analysis was undertaken by GTPL at monthly intervals following the commencement of discharge to the environment (i.e. from December 2015 – through to June 2016). Parameters for laboratory testing included total nitrogen; oxides of nitrogen; ammonia; total phosphorus; microbiological faecal coliforms; total algae (only October-March); cyanobacteria; biochemical oxygen demand (BOD); suspended solids; total dissolved solids; free chlorine; oil and grease; alkalinity; E.coli and enterococci. Parameters for *in situ* field monitoring included total chlorine; pH; temperature and dissolved oxygen.
- Groundwater - continuous recording of groundwater levels and electrical conductivity (EC) in shallow bore loggers was undertaken along with six monthly sampling for a range of parameters (carried out in May 2016, six months after the discharge of recycled water to the environment).

Exceedances of various surface water and groundwater trigger levels were recorded during the reporting period, and exceedance investigation reports were prepared by GTPL (and issued to QPRC and the EPA), as per the exceedance protocol outlined in the Surface Water and Groundwater Response Plan. It was determined that the exceedances were caused by natural variation and were unlikely to be caused by the operation of the WRP. The exceedance investigations also recommended that QPRC review the trigger levels, following handover.

6.3.2 Stream bank monitoring

Monitoring and assessment of stream health, habitat and channel stability is required by the WMP and the SWAEMP. Stream bank monitoring was undertaken across nine sites along Goongong Creek, Montgomery Creek and Queanbeyan River, initially in November 2015 (prior to discharge of recycled water to the environment) and again in February 2016 (during discharge), and at least one more monitoring event will take place in the future, once recycled water is distributed to the township. All of which will help to better understand the impacts of discharging recycled water (in different volumes).

6.3.3 Soil monitoring

An Irrigation Management Plan (IMP) was prepared as part of the WMP and outlines the baseline data of the soil properties of the proposed irrigation areas, identifies potential off-site risks and impacts, describes measures to minimise any environmental impacts, includes a protocol for the use of recycled effluent for irrigation and provides a monitoring program for areas subject to irrigation.

The IMP required that each soil monitoring location be initially sampled at four depths (0-20, 20-40, 40-70, and 70-100 cm) from five separate sampling sites. Additional baseline soil monitoring was undertaken by Agsol at the following sites in April 2016:

- Monitoring Site 2 – Duncan Fields (sporting area)
- Monitoring Site 8.

Samples were taken from depths of 0-20 cm and 20-40 cm at Site 2 (as recommended in the previous Agsol report of 2015) and Site 8 due to difficulty caused by underlying large rock floaters. The soil testing measured pH; electrical conductivity; nitrate; total nitrogen; available phosphorus; total phosphorus; exchangeable sodium percentage; and phosphorus sorption capacity. Heavy metals and pesticides were also tested; however only on the 0-20 cm layer.

6.3.4 Nest box monitoring

To meet the requirements of CoA B12, nest boxes have previously been installed at various locations around the Googong township and along the foreshores to mitigate the loss of nesting/roosting resources for hollow dependant fauna. Investigations were carried out by Biosis in over two days in January 2016 to monitor the nest boxes and perform minor repairs where necessary.

In total, 109 nest boxes were inspected, which comprised all 14 boxes installed to offset the vegetation removed for the Stage AB WRP, 47 of the 68 boxes installed for Stage A Network (east), six of the 10 boxes installed for Stage A Network (west) and all 42 boxes for Stage B Network.

Evidence of deterioration was present in some of the boxes, and some of the boxes required simple repairs. While most were in good condition, it was noted that the repair and restoration of the boxes will be required within the next year to maintain their effectiveness as a nesting/roosting resource for hollow-dependent fauna.

6.4 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.

6.5 Landscape monitoring

6.5.1 Stage A Network

Landscape monitoring requirements for Stage A Network have been addressed in accordance with the Landscape Management Plan – Stage A Network.

- Stage A Network (west) – No monitoring was undertaken by GTPL during this reporting period as Stage A Network (west) has been handed over to QPRC; and all landscape maintenance and reporting is now the responsibility of QPRC.
- Stage A Network (east) – Landscape monitoring was undertaken in January 2016 by Icon Water.

6.5.2 Stage B Network

Landscape monitoring requirements for Stage B Network have been addressed in accordance with Landscape Management Plan – Stage B Network. Construction was completed prior to this reporting period. Normal maintenance was undertaken by GTPL during this reporting period prior to handover to QPRC on 9 May 2016 to ensure the landscaping had establishment and was weed free.

No reporting was undertaken, as there are no reporting requirements under the Landscape Management Plan – Stage B Network.

6.5.3 Stage AB WRP

Landscape monitoring requirements for the Stage AB WRP have been addressed in accordance with the Landscape Management Plan – Stage AB Water Recycling Plant.

All landscape works within the WRP site have been completed and handed over to QPRC. The landscape works to the buffer zones to the south and west of the WRP, and the boundary areas to the east of the WRP have been completed but not handed over to QPRC as yet. GTPL will maintain these areas until handover to QPRC, expected in October 2016. The boundary areas to the north of the WRP, and east to the subdivision,

are yet to be completed due to a construction maintenance track being utilised in these zones. These areas will be rehabilitated by the subdivision civil contractor at the appropriate time.

No reporting was undertaken during the reporting period, as there are no reporting requirements under the Landscape Management Plan – Stage AB Water Recycling Plant.

7 Inspections and audits

7.1 Inspections

JHPL inspections

JHPL staff conducted weekly inspections of Stage AB WRP throughout the reporting period.

Environmental Representative inspections

The ER conducted monthly inspections from February to May 2016, with the final inspection undertaken on 17 May 2016. The ER inspected Stage AB WRP to ensure the effective implementation of the CEMP and identify any areas of non-compliance. During this reporting period, the ER identified landscape and soil stability, fencing management and stormwater pipe security issues, and provided recommendations to rectify the mentioned non-compliance issues. Following the ER's reports outlining the non-compliance issues and recommendations, the issues were addressed by JHPL, GTPL and the relevant contractor. The final inspection was undertaken on 17 May 2016, where the ER formally closed out the construction phase of Stage AB WRP.

7.2 Audits

An internal environmental audit of Stage 1 of the IWC Project and of Stage AB WRP was conducted by RPS on 12 May 2016.

The Stage 1 audit involved:

- A review of approval documentation (including the Concept and Project Approvals, EPL, OEMP, CEMP, environmental policies, etc)
- A review of the implementation of the Stage AB WRP OEMP and other management plans (landscape, water, etc)
- A close out meeting to discuss audit findings.

The Stage AB WRP audit involved:

- A review of the contractor's documentation (including Project and Concept Approvals, EPL, OEMP, Pollution Incident Response Management Plan (PIRMP) environmental policies, etc)
- A review of the implementation of the OEMP and sub-plans
- A site visit
- A close out meeting to discuss audit findings.

Recommendations were made in relation to updating the information available on the Googong compliance website, ensuring all evacuation procedures and muster point locations were displayed onsite, arranging an assessment of the condition of all public roads and footpaths traversed by construction traffic prior to the commencement of full operation of the WRP to identify and repair any damage attributable to the construction of the WRP, and to organise testing of the PIRMP. In summary, the recommendations made during the internal audit were minor in nature and have been addressed by JHPL, GTPL, the contractors and RPS as required.

Due to the close-out of the construction phases of Stage 1 of the IWC Project and the conducting of the internal environmental audits, the ER determined that a final inspection would be sufficient to assess the implementation of mitigation measures, rather than an external audit.

8 Environmental complaints

There was one environmental complaint lodged relating to water quality in Googong Creek on 28 June 2016. A complaint was made to the EPA regarding elevated nitrate levels in the creek. As the EPL 20188 had transferred to QPRC on 8 June 2016, the EPA notified QPRC that a complaint had been lodged. As the EPL licensee, QPRC was responsible for responding to the complaint and providing the appropriate information and support as required. GTPPL provided assistance as requested by QPRC.

9 Conclusion

This Compliance Tracking Report has been prepared for the reporting period that extended from January to 5 July 2016 and has focused on the operation of Stage AB WRP.

As part of this review, four non-compliances against the IWC Project's CoA were identified. The non-compliances were CoA A1 (a consistency assessment for a change in chemical storage design wasn't carried out prior to construction), CoA A15 (a misalignment of printing dates resulted in construction updates being provided seven months apart instead of the specified six months), CoA D5 (an ammonia exceedance recorded through surface water discharge monitoring) and CoA D5A (a noncompliance for not providing water monitoring data to DP&E, prior to discharge to the environment).

As of 5 July 2016 all aspects of Stage 1 of the IWC Project have been handed over from GTPPL to QPRRC and Icon Water, including monitoring and compliance requirements. Future monitoring and compliance requirements are now understood to be the responsibility of QPRRC and Icon Water.

Appendix A

Compliance Tracking Register

Table A1 Concept Approval MP 08_0236 Conditions of Approval for IWC Project

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.	Googong Township Propriety Limited (GTPL)	Open	Compliant		Works undertaken during the reporting period have been carried out in accordance with this condition.	Consist_Rev – WRP_design_updates_Rev0_150423' provided with previous Compliance Tracking Report.
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/Secretary 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. Separate Project Approvals have been or are being obtained for Stage 2 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,	N/A	N/A	N/A	N/A	Condition not applicable to works for Stage 1. This condition will be met during the development phase of future projects beyond Stage 1.	

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	<p>(b) an assessment of relevant statutory matters including land zoning, permissibility and consistency with the objects of the EP&A Act,</p> <p>(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,</p> <p>(d) a risk assessment of the potential environmental impacts of the project, identifying the key issues for further assessment,</p> <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 						

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	<p>visual amenity, including future sensitive receptor areas, including residential,</p> <ul style="list-style-type: none"> – 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, – OEHL (including its Heritage Branch), – Department of Primary Industries (including the NSW Office of Water), – 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). 						

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion date	Comment	Verification
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 IWC Project. The website provides access to electronic information associated with the works.	http://compliance.googong.net/
	(a) the status of the project;					GTPL has established a website which provides details on the status of Stage 1 and Stage 2 of the project.	http://compliance.googong.net/
	(b) a copy of this approval and any future project approvals and modifications to these approvals;					GTPL has established a website that provides copies of the Concept and Project Approval for Stage 1 issued under the EP&A Act for MP 08_0236, and approvals for Modification 1, Modification 2 and Modification 3.	http://compliance.googong.net/iwc/project-approvals.php
	(c) a copy of each relevant environmental approval, licence or permit required and obtained in relation to the project;					In addition to the Concept and Project Approvals, the website also has copies of the EPBC Act approval, Environment Protection Licences (EPL) for construction work, Section 138 certificates and construction/occupation certificates issued to date for Stage AB Network, and Stage AB WRP.	http://compliance.googong.net/iwc/other-approvals.php
	(d) a copy of each approved plan, report, or monitoring program required by this approval and associated project approvals;					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 Plans for Stage A Network, Stage B Network and Stage AB WRP, CEMPs for Stage A Network (east) and (west), Stage B Network and Stage AB WRP, and an OEMP for Stage AB Network and 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;					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.					Previous compliance tracking reports and findings of independent audits are available on the website. There were no independent audits undertaken during the reporting period as the ER determined that, due to the close-out of construction, a final inspection and internal audits, carried out by RPS and GTPL, would be sufficient.	http://compliance.googong.net/iwc/monitoring-auditing-and-compliance.php

Table A2 Project Approval MP 08_0236 Conditions of Approval for Stage 1 of the IWC Project

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; (d) Modification to Approved Project: Googong Township Integrated Water Cycle Project – Proposed Discharge Point at Googong Creek, prepared by RPS Manidis Roberts and dated March 2014; and (e) conditions of this approval.	GTPL and contractor	Open	Non-compliant		Works undertaken during the reporting period have been carried out in accordance with this condition. However, there was one non-compliance where a consistency assessment for the variation of the chemical storage design was not conducted prior to construction. A consistency review has been completed and has been submitted to the Department of Planning and Environment with this Compliance Tracking Report. The changes were found to be consistent with the existing approvals.	
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 Secretary 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/Secretary 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 reports. The Department 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 WRP to be built at the same time instead of separate A/B stages) was provided to the Department on 30 July 2013.	'DP&I Acceptance Staging Report Letter_28Aug2012.pdf' provided with previous Compliance Tracking Report.
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.	

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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, EPLs for construction work, along with Section 138 certificates (refer CoA C15) and construction and occupation certificates (refer CoA A12) for Stage A Network, Stage B Network and Stage AB WRP. A copy of the relevant approvals has been kept at the site offices for Stage AB WRP and the relevant offices/depots of GTPL, QPRC and Icon Water (for the operation of Stage A Network).	http://compliance.googong.net/iwc/approvals-licences-and-permits.php
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 CEMPs for Stage A – Network (west), Stage B Network and Stage AB WRP and are implemented during operation. Monthly environmental operational reports were submitted to GTPL from January to July 2016, assessing the implementation of environmental management and mitigation measures and compliance with the conditions of approval of the operational WRP. No formalised training had taken place outside of regular toolbox talks due to a low number of workforce present.	
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/

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A11	<p>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:</p> <ul style="list-style-type: none"> (a) project staging, easements and certification, (b) site access, parking and servicing, (c) safety, security, facilities and amenities, (d) site and infrastructure maintenance, and (e) design and development specifications, including relevant Australian and Council codes, standards and specifications. 	GTPL and contractor	Open	Compliant		<p>QPRC is the ultimate operator for Stage A Network (west), Stage B Network and the Stage AB WRP, and so GTPL and QPRC have worked closely throughout the design and construction stages to address the various elements raised in this condition. Also refer CoA A12 and construction certificates/S138 certificates that have been issued by QPRC.</p> <p>The former Queanbeyan City Council (QCC) (now QPRC) had 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 had an approval role on the WRP design as it progressed through the Section 60 (LG Act) (approval granted 9 February 2015).</p> <p>QPRC also reviews 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.</p> <p>The former Palerang Council (now QPRC) had not been involved in the design of Stage A – Network (west), Stage B Network and Stage AB WRP as this work does not fall within their local government area.</p>	<p>'QCC response to A11_Network West_1Nov2012.pdf' provided with previous Compliance Tracking Report.</p> <p>'NOW_Googong WRP – Step 7 S60 approval.pdf' provided with previous Compliance Tracking Report.</p>
					02-May-14	<p>GTPL has consulted with the former Palerang Council throughout the early planning phase of Stage A – Network (east). However as Palerang Council would not own or operate the Stage A – Network (east) infrastructure, they advised GTPL that they do not request a formal review of design elements.</p> <p>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 Bulk Water Connection (BWC) works at Stage A Network (east). Palerang had no issues with the BWC works.</p> <p>Icon Water (as the Principal and the future owner operator) were consulted during development of the Stage A – Network (east) CEMP.</p> <p>The former QCC has not been involved in detailed design of Stage A – Network (east) as this work does not fall within their local government area.</p>	<p>'Palerang Council A11 response_2012 and 2014.pdf' provided with previous Compliance Tracking Report.</p>
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>The BCA fire certificate and occupation certificates were issued in April 2016 for the Stage AB WRP.</p>	<p>http://compliance.googong.net/iwc/other-approvals.php</p>

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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		GTPL has prepared and implemented CEMPs and management plans to manage risks to the environmental during construction for all sub-stages in Stage 1. OEMPS for Stage AB Network and Stage AB WRP have also been prepared to manage risks to the environmental during operation. Responsibility for their implementation rests with GTPL, QPRC and Icon Water.	
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> <ul style="list-style-type: none"> (a) procedures to inform the local community of planned investigations and construction activities, including blasting works (if any), (b) procedures to inform the relevant community of construction traffic routes and any potential disruptions to traffic flows and amenity impacts, (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, (d) procedures to inform the community where work outside the construction hours specified in condition C7, in particular noisy activities, has been approved, (e) procedures to inform and consult with affected landowners to rehabilitate impacted land, (f) procedures to inform the community of operational activities, including results of monitoring undertaken in accordance with conditions D7 to D9, and (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. 	GTPL and contractor	Open	Compliant		<p>GTPL has prepared the Googong Township IWC 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/Secretary on 1 August 2012. The former 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 (OOHW) (Attachment 1), including notification to the community.</p> <p>OOHW was required for Stage AB WRP however the works were not expected to generate over 5dBA above background levels therefore no notifications were required. The OOHW procedure was followed and no complaints were received from sensitive receivers.</p>	<p>http://compliance.googong.net/</p> <p>'QCC comments Stg A Network Mgmt Plans (incl CIP)_9Aug2012.pdf' provided with previous Compliance Tracking Report.</p> <p>'DP&I CIP Endorsement_21Sep12.pdf' provided with previous Compliance Tracking Report.</p>
A15	<p>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:</p> <ul style="list-style-type: none"> (a) a 24-hour telephone number on which complaints about construction and operational activities at the site may be registered, (b) a postal address to which written complaints may be sent, and 	GTPL	Complete	Compliant	26-Oct-12	<p>Details on how to contact GTPL during construction have been provided through targeted mail-outs to potentially affected residents, advertising in local papers, road side signage and the project website.</p> <p>GTPL has established a 24 hour toll-free community information line where complaints/enquiries can be made.</p> <p>GTPL has established a postal address to which written complaints can be sent.</p>	<p>http://compliance.googong.net/</p> <p>The phone number is: 1800 838 438</p> <p>Googong Integrated Water Cycle c/o CIC Australia PO Box 1000 Civic Square ACT 2608</p>

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	(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	Non-compliant	11-Dec-15 22-Jul-16	At the end of the last reporting period, one advertisement providing a construction update was included in the Queanbeyan Age on 11 December 2015. The last construction update was included in the Queanbeyan Age on 22 July 2016, more than six months from the previous update. Signage has been provided on fencing at the construction sites and contact information is available on the website.	'22Jul 2016 CGOO0316 IWC 16X2 QA Mono Press Ad v2.pdf'
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. There was one environmental complaint relating to quality of the water discharged from the WRP on 28 June 2016. QPRC was the EPL licensee and advised that they responded to the complaint. GTPL will continue to make the complaints register available for inspection by the Director-General/Secretary upon request. No requests have been made during the reporting period.	
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. There was one environmental complaint relating to quality of the water discharged from the WRP on 28 June 2016. QPRC was the EPL licensee and have advised that they responded to the complaint.	
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: (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;	GTPL	Open	Compliant	04-Oct-12	GTPL has prepared a Compliance Tracking Program (CTP) to address this condition. This compliance tracking table assesses GTPL's compliance against the conditions for the construction and operation of Stage AB Network and Stage AB WRP from January 2016 to handover of the last component of Stage 1 (i.e. Stage AB WRP) to QPRC on 5 July 2016. This is the final compliance tracking report to be prepared by GTPL for Stage 1 now that all assets are operational and have been handed over to QPRC.	

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	(b) a program for independent environmental auditing in accordance with AS/NZ ISO 19011:2003 – Guidelines for Quality and/or Environmental Management Systems Auditing;					<p>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.</p> <p>No independent audit was required as advised by the ER due to the close-out of construction activities and internal audits carried out by RPS and GTPL.</p>	
	(c) procedures for rectifying any non-compliance identified during environmental auditing or review of compliance;					<p>GTPL has prepared a CTP, which outlines procedures for rectifying non compliances. Refer to Section 2.4 of CTP.</p> <p>No independent audit was required as advised by the ER due to the close-out of construction activities and internal audits carried out by RPS and GTPL</p>	
	(d) mechanisms for recording environmental incidents and actions taken in response to those incidents;					<p>GTPL has prepared a CTP to address this condition. Refer to Section 2.5 of the CTP.</p> <p>Incident recording requirements are outlined in Section 7.2 of the various CEMPs and Section 7.2 of the OEMP for Stage AB Network and Stage AB WRP. Contractors are required to develop and track incidents in an incident register. GTPL also maintains an overarching Environmental Incident and Non-Conformance Register for Stage 1 of the IWC Project.</p>	
	(e) provisions for reporting environmental incidents to the Director-General during construction and operation, and					<p>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 AB Network and Stage AB WRP. Incident reporting flowcharts have been issued to all contractors and are required to be posted up in the site office.</p> <p>There were two Category Two incidents that occurred during this reporting period. The incidents were reported in accordance with this condition to the DP&E.</p>	
	(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.					<p>CEMPs and management plans have been developed and implemented for Stage 1 works, including Stage AB Network and Stage AB WRP that detail the training and induction requirements for all personnel on site. Refer to Section 5 of the CEMPs.</p> <p>Section 4 of the OEMPs highlight responsibilities for the different operators for Stage AB Network and Stage AB WRP, specific training and induction requirements are listed in Section 5.</p> <p>Regular toolbox talks have been undertaken during the reporting period, which have outlined responsibilities for contractors, and sub-contractors working on Stage AB Network and Stage AB WRP.</p>	<p>http://compliance.googong.net/iwc/construction-environmental-management-plans.php</p>

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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 have been maintained in a proper condition during the reporting period through the implementation of the mitigation measures detailed in the Air Quality Management Plans (AQMPs) for the respective stages.	
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	Compliant		Legal registers and the Soil and Water Management Plans (SWMPs) developed as part of the CEMPs for Stage A – Network (west), Stage B Network and Stage AB WRP and the OEMPs for Stage AB Network and Stage AB WRP outline this requirement to comply with the <i>Protection of the Environment Operations Act 1997</i> (POEO Act). There were two Category Two incidents, however the definition of a Category Two incident states that pollution incidents can be cleaned up without material harm to the environment or people and therefore complies with section 120 of the POEO Act.	
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	Open	Compliant		This condition has been met 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 has been generally ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the respective stages SWMPs. An assessment of the Sediment and Erosion Control Measures for the WRP was undertaken during the reporting period. Additional erosion and sediment control measures were recommended to mitigate and further erosion issues. The final inspection undertaken by the ER did not identify any outstanding issues.	
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 ongoing through Stage 1 works and managed through the mitigation measures detailed in the SWMPs and Landscape Management Plans (LMPs) for the respective stages. Backfilling, plant establishment, weed management and other landscape restoration activities took place during the reporting period at Stage AB WRP. Any rehabilitation issues were identified by monthly inspections carried out by the ER and rectified by GTPL and their contractors.	

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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 all works and managed through the mitigation measures detailed in the AQMPs for the respective stages. There were no odour complaints made during the reporting period.	'May – 8 th July 2016 Environmental Reportv2.pdf'
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 has been ongoing throughout all works and managed through the mitigation measures detailed in the Waste and Resource Management Plans (WRMPs) and OEMPs for the respective stages.	
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 has been ongoing throughout all works and managed through the mitigation measures detailed in the WRMPs and OEMPs for the respective stages.	
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 has been ongoing throughout all works and managed through the mitigation measures detailed in the WRMPs and OEMPs for the respective stages. A Category Two incident occurred on 18 February 2016 when a small quantity (<1 L) of ferric sulphate spilled and pooled on the ground and dried. The spill was cleaned and disposed of appropriately offsite.	'20160218 Minor Ferric Spill Report.pdf'
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 has been ongoing throughout all works and managed through the mitigation measures detailed in the WRMPs for the respective stages. There were no recorded incidents of green waste being burnt on site during the reporting period.	
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		Details and procedures for vegetation clearance were prepared as part of the Flora and Fauna Management Plans (FFMPs) for the respective stages. No vegetation clearing was undertaken during the report period and there were no recorded incidents of 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 has been ongoing throughout Stage AB Network and Stage AB WRP works and managed through the mitigation measures outlined in the respective FFMPs and Hollow Relocation and Net Box Strategy. All of the required nest boxes have been previously installed and no additional clearing took place during the reporting period. Ecological investigations were carried out by Biosis in January 2016. The investigation found that while most boxes are currently in good condition the boxes are beginning to deteriorate and therefore will need substantial repair and restoration within the next year to maintain their effectiveness	'21285 GoogongTownship.NestboxMonitoringReport 20160211.pdf'

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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 has been ongoing throughout all works and managed through mitigation measures detailed in the FFMPs for the respective stages. No clearing from potential habitat for the Speckled Warbler was undertaken during the reporting period.	
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		<p>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.</p> <p>A revised Plan (Rev 5) was approved by DP&E on 28 October 2014 and DoE on the 2 September 2014. The amendment related to Project Modification 3 and included a change to the Pink-tailed Worm-Lizard conservation area boundary.</p>	'DP&E Mod 3 and rev5 PTWL PMP 281014' and 'DoE_2011-5829 sgn letter' provided with previous Compliance Tracking Report.
B15	<p>The Proponent shall store and handle all dangerous goods, as defined by the Australian Dangerous Goods Code, strictly in accordance with:</p> <ul style="list-style-type: none"> (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>. <p>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.</p>	Contractor	Open	Compliant		<p>Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the Hazard, Risk and Safety Management Plans (HRSMPs) for the respective stages.</p> <p>A Category Two incident occurred on 18 February 2016 when a small quantity (<1 L) of ferric sulphate spilled and pooled on the ground and dried. The spill was cleaned and disposed of appropriately offsite.</p>	'20160218 Minor Ferric Spill Report.pdf'

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B16	<p>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:</p> <p>(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,</p> <p>(b) measures to minimise and/or avoid visual amenity impacts to sensitive receiver locations, including:</p> <p>(i) landscape design, including a schedule of species to be used in landscaping and revegetation,</p> <p>(ii) built elements, including proposed treatments, finishes and materials of exposed surfaces (including colour specifications and samples);</p> <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>	GTPL	Open	Compliant		<p>GTPL has prepared LMPs for Stage A Network (East and West), Stage B Network and Stage AB WRP to address the requirements of this condition. The LMPs describe the landscape and rehabilitation measures to be applied to the various stages.</p> <p>The Stage A Network LMP was provided to the Director-General/Secretary on 22 October 2012. The Stage AB WRP LMP was accepted by DP&E on 12 September 2015, and was revised again in December 2015. The Stage B Network LMP was accepted by DP&E on 21 October 2014.</p> <p>The implementation of the LMPs were assessed during the monthly inspections by the ER and monthly environmental operational reports conducted for GTPL. Environmental inspections ceased once the commissioning phase finished in early April. The ER conducted the final inspection on 17 May 2016 and was satisfied that no further inspections were required. In addition, no landscapes works were undertaken at the WRP since the final environmental inspection.</p>	<p>'QCC & Palerang comments Stg A Ntwk LMP_Oct2012.pdf' and 'LMP WRP AB, Covering letter' and 'Landscape Management Plan WRP AB, DoPE acceptance, 19Sep14', and 'Stage B Network LMP DP&E cover letter', and 'DP&E Letter re Stage B Landscape Management Plan signed 21102014' provided with previous Compliance Tracking Report.</p>
	<p>The Plan shall be prepared and submitted to the Director-General prior to construction, unless otherwise agreed by the Director-General.</p>	GTPL	Open	Compliant		<p>Icon Water has prepared a Plant Establishment Period 6 month monitoring report for the period June 2015 to January 2016 for Stage A Network (east) (refer to attached).</p> <p>GTPL prepared a report entitled 'An Assessment of Plant Establishment & Weed Control' in October 2015 for Stage A Network (west) (refer to attached) and continues to undertake monitoring and maintenance works.</p> <p>Landscaping works for Stage A Network (east and west) and Stage B Network was completed prior to the reporting period. Landscape monitoring of Stage A Network (east) took place in January 2016. No monitoring was required for Stage B Network.</p> <p>Landscaping works within the WRP site have been completed and handed over to QPRC. Landscape works to the buffer zones to the south and west of the WRP and boundary area to the east of the WRP have been completed and are expected to be handed over to QPRC in October 2016. Landscape works to the boundary areas to the north and of the WRP are yet to be completed due to a construction maintenance track being utilised in the zone.</p>	<p>'Stage A Network east 6 month monitoring report June 15 to Jan 16_rev 1' attached with previous Compliance Tracking Report.</p> <p>'151006 GDR LMP Monitoring - PEP Final.pdf' attached with previous Compliance tracking report.</p>

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B17	The Proponent shall: (a) take all practicable measures to mitigate off-site lighting impacts from the construction and operation of the project, and (b) ensure that all external lighting associated with the project complies with Australian Standard <i>AS4282 – 1997 – Control of the Obtrusive Effects of Outdoor Lighting</i> .	GTPL and contractor	Open	Compliant		Compliance with this condition has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the HRSMPs. for the respective stages. No night time works have taken place and as such lighting has not been required. 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. The detailed design of the Stage AB WRP has considered operational lighting impacts and complies with Australian Standard <i>AS4282 – 1997 – Control of the Obtrusive Effects of Outdoor Lighting</i> .	
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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the CEMPs for the respective stages, which include maps with clearly defined work areas.	'G1BAS1 GWTP3 impact June 2015 report v2.pdf' provided with previous Compliance Tracking Report.
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, Stage B 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.	'Geotechnique Contamination Assessment_7Aug2012.pdf' provided with previous Compliance Tracking Report.
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		No areas of contamination were identified within the Stage A – Network, Stage B Network and the Stage AB WRP sites prior to construction (refer CoA C2).	

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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>Compliance with this condition has been ongoing for Stage 1 works and managed through mitigation measures detailed in the respective Heritage Management Plans (HMP).</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). 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> <p>With regards to Stage B Network – An Aboriginal Heritage Impact Permit (AHIP) was obtained in the previous reporting period to salvage known heritage items within the Stage B Network boundary on 5 November 2014. This salvage occurred on Monday 10 November 2014.</p> <p>No relocation of Aboriginal Heritage sites (ACH) occurred during the reporting period. Relocation is planned for October-November 2016 when all ACH salvaged at the WRP and across all developed areas of Googong will be returned to country.</p> <p>The OEH and relevant Aboriginal groups will be advised by Navin Officer of the plan to return to country, as well as reports prepared to document the sites return.</p>	'Stage AB WRP GWTP2 Artefact Collection_10May2013.pdf', 'Googong1B AHIP C0000573 (3)' and email correspondence confirming Stage B Network salvage 'FW: Googong 1B salvage completed' provided with previous Compliance Tracking Report.
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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the HMPs for the respective stages and unexpected finds procedures. No unexpected finds occurred during the reporting period.	
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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the HMPs for the respective stages. No unexpected finds occurred during the reporting period.	
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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the Noise and Vibration Management Plans (NVMPs) for the respective stages.	

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C8	<p>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:</p> <ul style="list-style-type: none"> (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. 	GTPL and contractor	Open	Compliant		<p>Compliance with this condition has been ongoing throughout Stage 1 works. Procedures for varying hours of construction are detailed in the NVMPs for the respective stages.</p> <p>There were no construction-related noise complaints during the reporting period.</p>	
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> <ul style="list-style-type: none"> (a) between the hours of 8.00 am and 6.00 pm Monday to Friday, (b) between the hours of 8.00 am and 1.00 pm Saturday, and (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>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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the NVMPs for the respective stages. There were no construction-related noise complaints during the reporting period.</p>	
C10	<p>Blasting associated with the construction of the project is only permitted during the following hours:</p> <ul style="list-style-type: none"> (a) 9.00 am to 5.00 pm, Mondays to Fridays, inclusive, (b) 9.00 am to 1.00 pm on Saturdays, and (c) at no time on Sundays or public holidays. <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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the NVMPs for the respective stages. No blasting activities were undertaken during this reporting period.</p>	
C11	<p>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).</p>	Contractor	Open	Compliant		<p>Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the NVMPs for the respective stages. The plan has considered the requirements of the Interim Construction Noise Guidelines. No construction-related noise complaints were received during the reporting period.</p>	

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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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the NVMPs for the respective stages.	
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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the NVMPs for the respective stages. No blasting activities were undertaken during this reporting period.	
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 the former QCC (road authority).	
C15	The Proponent shall: (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; (b) ensure that adequate signage is provided to inform road users of any change in traffic conditions resulting from construction works, and (c) undertake all roadworks in consultation with Councils and any relevant road authority.	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 the former QCC. QPRC undertook a final dilapidation inspection of Googong Road following the completion of Stage AB WRP in November 2016. QPRC have certified that disturbed areas of the road reserve and defects caused to the road had been satisfactorily restored.	
						Compliance with this condition has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the respective stages Traffic Management Protocols (TMP).	
						Works during the reporting period have been undertaken in consultation with QPRC. Existing Section 138 Certificates are available on the compliance website.	http://compliance.googong.net/iwc/approvals-licences-and-permits.php
C16	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, (b) minimise any visible air pollution generated by the project, and (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.	Contractor	Open	Compliant		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the AQMPs for the respective stages. No air quality complaints were received during the reporting period.	

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C17	<p>Prior to the commencement of construction, or as otherwise agreed by the Director-General, the Proponent shall engage a suitably qualified and experienced Environmental Representative(s) whose appointment has been endorsed by the Director-General. The Environmental Representative(s) shall:</p> <ul style="list-style-type: none"> (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 (d) have the authority and independence to: <ul style="list-style-type: none"> (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. 	GTPL	Complete	Compliant	21-Sep-12	<p>Richard Sharp (Ecology and Heritage Partners) 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/Secretary on 21 September 2012. At the time the ER was employed by NGH Environmental. During this reporting period the ER changed employers. DP&E were notified of the changes in ER employment details on 16 April 2015 and provided a letter of support for continuation of Richard Sharp as ER for the Project on 17 April 2015.</p> <p>The ER is independent of the design, construction and operation personnel and is employed by Ecology and Heritage Partners.</p> <p>Compliance with this condition has been ongoing throughout Stage 1 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.</p> <p>For Stage AB WRP construction/commissioning, the ER has undertaken monthly inspections and provided a copy of these 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.</p>	<p>'DP&I Approval Indep Env Rep_21Sep12.pdf' provided with previous Compliance Tracking Report.</p> <p>'DP&E letter change for employer for ER 170415.pdf' provided with previous Compliance Tracking Report.</p>
C18	<p>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).</p>	GTPL and contractor	Open	Compliant		<p>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 GTPL or their contractors).</p> <p>All ER recommendations made during the reporting period have been implemented by GTPL or their contractors as no further comments from the ER have been made.</p>	

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C19	<p>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:</p> <ul style="list-style-type: none"> (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 fulfil 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, (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. 	GTPL	Complete	Compliant	18-Oct-12	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&E (formerly DP&I) approved the CEMP on 18 October 2012.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
					05-Dec-12	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. DP&E (formerly DP&I) approved the CEMP on 5 December 2012.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
					11-Dec-13	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&E (formerly DP&I) approved the CEMP on 11 December 2013.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
					27-Aug-14	A CEMP has been prepared for Stage B Network in accordance with this condition. The CEMP was prepared in consultation with a number of agencies and stakeholders. DP&E approved the CEMP on 27 August 2014.	http://compliance.googong.net/iwc/stage-b---network-.php
C19	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	<p>GTPL prepared the Stage A Network (west) CEMP in consultation with the following stakeholders: the former QCC and Palerang Council, OEH, Environment Protection Authority (EPA), Roads and Maritime Services (RMS) and the Commonwealth Department of the Environment (DoE) (formerly DSEWPaC).</p> <p>The CEMP was provided to DP&E (formerly DP&I) for approval on 27 July 2012. The Director-General/Secretary approved the CEMP on 18 October 2012.</p>	'DP&I Approval Stage A Network West CEMP_18Oct2012.pdf' and 'Stage A Network CEMP agency correspondence.pdf' provided with previous Compliance Tracking Report.

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					05-Dec-12	GTPL prepared the Stage A – Network (east) CEMP in consultation with the following stakeholders: the former QCC and Palerang Council, OEH, EPA, RMS and DoE. The CEMP was provided to DP&E (formerly DP&I) for approval. The Director-General/Secretary approved the CEMP on 5 December 2012.	'DP&I Approval Stage A Network East CEMP_05Dec2012.pdf' and 'Stage A Network CEMP agency correspondence.pdf' provided with previous Compliance Tracking Report.
					11-Dec-13	GTPL prepared the Stage AB WRP CEMP in consultation with the following stakeholders: the former QCC, OEH, EPA, RMS and DoE. The CEMP was provided to DP&E (formerly DP&I) for approval. The Director-General/Secretary approved the CEMP on 11 December 2013.	'DP&I Stage AB WRP CEMP approval_11Dec2013' and 'Stage AB WRP CEMP agency comments_2013' provided with previous Compliance Tracking Report.
					27-Aug-14	GTPL prepared the Stage B Network CEMP in consultation with the following stakeholders: the former QCC, OEH, EPA, RMS, NSW Office of Water and DoE. The CEMP was provided to DP&E for approval. The Director-General/Secretary approved the CEMP on 27 August 2014.	'DP&E Letter approving CEMP Stage B Network 270814' and 'Stg B Network CEMP Agency Letters' provided with previous Compliance Tracking Report.
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: the former QCC, EPA and OEH.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
	(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 prepared the Stage A – Network (east) SWMP in consultation with the following stakeholders: the former QCC and Palerang Council, OEH, EPA, RMS and DoE.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
	(i) detailed engineering designs for the recycled water discharge structure;			N/A		The recycled water discharge structure was constructed as part of Stage A Network (West) at the interim reservoirs prior to this reporting period. Detailed engineering designs are provided in the Recycled Water Flow Protocol as part of the Water Management Plan.	
	(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.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
	(iii) a description of the quantity and source of all water supplies relating to construction, hydro-testing and operation,				05-Dec-12	GTPL prepared the Stage A – Network (east) SWMP in accordance with this condition.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
	(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.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
	(v) details on potential occurrence of expansive soils and saline areas within the project site and management and mitigation measures,				27-Aug-14	GTPL has prepared a Stage B Network SWMP in accordance with this condition.	http://compliance.googong.net/iwc/stage-b---network.php

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	<p>(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),</p> <p>(vii) a description of measures to minimise soil erosion and the potential for the transport of sediment to downstream waters, including progressive rehabilitation,</p> <p>(viii) monitoring of impacts on water quality and soils;</p>						
	<p>(b) a Hazards, Risk and Safety Management Plan to address:</p> <p>(i) the safety of construction workers in the event of a flood, bushfire and any other likely hazard or risk,</p> <p>(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,</p> <p>(iii) the safety of the public (such as bushwalkers) near the site during construction, such as installation of signage and fencing as necessary;</p>	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A Network (west) HRSMP in accordance with this condition.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
					05-Dec-12	GTPL has prepared a Stage A – Network (east) HRSMP in accordance with this condition.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
					11-Dec-13	GTPL has prepared a Stage AB WRP HRSMP in accordance with this condition.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
					27-Aug-14	GTPL has prepared a Stage B Network HRSMP in accordance with this condition.	http://compliance.googong.net/iwc/stage-b---network-.php
	<p>(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:</p> <p>(i) details of traffic routes for heavy vehicles, including any necessary route or timing restriction for oversized loads,</p> <p>(ii) measures to verify the condition of roads used by construction vehicles prior to and following construction,</p> <p>(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,</p> <p>(iv) detailed consideration of measures to be employed to ensure traffic volumes and acoustic and amenity impacts along heavy vehicle routes are minimised,</p> <p>(v) details of requirements to restore roads used for the construction of the project, including Old Cooma Road and Googong Dam Road, and</p> <p>(vi) demonstration that all statutory responsibilities with regard to road traffic impacts have been complied with;</p>	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A Network (west) TMP in consultation with the following stakeholders: the former QCC, and RMS.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
					05-Dec-12	GTPL has prepared a Stage A – Network (east) TMP in consultation with the following stakeholders: the former QCC and Palerang Council, and RMS.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
					11-Dec-13	GTPL has prepared a Stage AB WRP TMP in consultation with the following stakeholders: the former QCC and RMS.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
					27-Aug-14	GTPL has prepared a Stage B Network TMP in consultation with the following stakeholders: the former QCC and RMS.	http://compliance.googong.net/iwc/stage-b---network-.php

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	(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: <ul style="list-style-type: none"> (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; 	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A Network (west) NVMP in accordance with this condition and in consultation with the following stakeholders: the former QCC and EPA.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
					05-Dec-12	GTPL has prepared a Stage A – Network (east) NVMP in accordance with this condition and in consultation with the following stakeholders: the former QCC and Palerang Council and EPA.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
					11-Dec-13	GTPL has prepared a Stage AB WRP NVMP in accordance with this condition and in consultation with the following stakeholders: the former QCC, EPA and the OEH.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
					27-Aug-14	GTPL has prepared a Stage B Network NVMP in accordance with this condition and in consultation with the following stakeholders: the former QCC, EPA and the OEH.	http://compliance.googong.net/iwc/stage-b---network-.php
	(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: <ul style="list-style-type: none"> (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, 	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A Network (west) FFMP in consultation with the following stakeholders: the former QCC, OEH and DotE (formerly DSEWPac).	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
					05-Dec-12	GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following stakeholders: the former QCC and Palerang Council, OEH and DotE.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
					11-Dec-13	GTPL has prepared a Stage AB WRP FFMP in consultation with the following stakeholders: the former QCC, OEH, EPA and DotE.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
					27-Aug-14	GTPL has prepared a Stage B Network FFMP in consultation with the following stakeholders: the former QCC, OEH, EPA and DotE.	http://compliance.googong.net/iwc/stage-b---network-.php

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	<ul style="list-style-type: none"> (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; 						
	<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> <ul style="list-style-type: none"> (i) details of measures to be carried out to avoid impacts to known and potential Aboriginal sites and deposits, (ii) procedures for dealing with previously unidentified Aboriginal objects (excluding human remains), including: <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, (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 (iv) Aboriginal cultural heritage induction processes for construction personnel and procedures for ongoing Aboriginal consultation and involvement. 	GTPL	Open	Compliant	18-Oct-12	GTPL has prepared a Stage A Network (west) HMP in accordance with this condition and in consultation with the OEH and the former QCC.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
					05-Dec-12	GTPL has prepared a Stage A – Network (east) HMP in accordance with this condition and in consultation with the OEH, the former QCC and Palerang Council.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
					11-Dec-13	GTPL has prepared a Stage AB WRP HMP in accordance with this condition and in consultation with the OEH, EPA and the former QCC.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
					27-Aug-14	GTPL has prepared a Stage B Network HMP in accordance with this condition and in consultation with the OEH, EPA and the former QCC.	http://compliance.googong.net/iwc/stage-b---network-.php
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		Noise compliance assessments were undertaken in May and June 2016 for noise emitted at the WRP. Noise monitoring assessments determined that the NVMP and noise reduction treatments were effectively implemented. No noise complaints have been received during this reporting period.	
D2	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> .	QPRC	N/A	Compliant		QPRC 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.	

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D3	Ongoing management and monitoring of the supply of the drinking water shall form part of the NSW Drinking Water Monitoring Program.	QPRC and Icon Water	N/A	Compliant		QPRC has prepared an Interim Drinking Water Quality Management Plan to meet this condition. Due to handover of Stage A Network (east) to Icon Water on 19 June 2015 and Stage A Network (west) to QPRC on 25 February 2015 (interim reservoirs) and 5 July 2016 (SPS 1), QPRC and Icon Water are now responsible for the implementation and monitoring of this plan.	
D4	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> .	GTPL and QPRC	Open	Compliant		<p>QPRC 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. Approval to construct Stage AB WRP was granted by the Minister for Primary Industries on 09 February 2015.</p> <p>Detailed design of the Stage AB WRP has been undertaken so that the WRP can operate to meet the requirements of this plan and the D5 effluent criteria.</p> <p>During the reporting period process verification commenced at the WRP, including a 90 day and 21 day reliability trails, as well as water quality monitoring. As process verification has been completed, QPRC can now be granted the Section 60 approval.</p>	

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D5	<p>The recycled water discharged to the environment or any water discharged to the environment through Discharge Point 3 shall not exceed the water quality parameters identified in Table D1 below.</p> <p>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.</p>	GTPL and QPRC	Open	Not Compliant		<p>The WRP has been designed so that it can treat sewage to meet the D5 effluent criteria. The OEMP for the Stage AB WRP and WMP are the key documents to manage compliance of this condition.</p> <p>From 1 June to 20 June 2016, the WRP was discharging water with elevated levels of ammonia. After investigating the exceedance in consultation with MWH (GTPL's engineers) and JHPL (operators of the WRP), GTPL understands that the elevated ammonia levels were attributable to the following factors:</p> <ul style="list-style-type: none"> ▪ Onset of winter and colder temperatures, which led to reduced nitrification performance in the bioreactor. ▪ Coincidentally, due to commissioning there was also more frequent operation of the centrifuge, which then returned high ammonia centrate back to the bioreactor. This additional nitrogen load is significant at this stage given the incoming wastewater load is low in comparison to the design load. ▪ Less onsite monitoring of the filtrate ammonia, which led to late detection of the exceedance (the monitoring program prepared for the WRP recommends daily monitoring when coming into winter, which would have identified this exceedance prior to the formal results which take two weeks). <p>However, since the monitoring results from 1 June 2016 became available, a number of trouble-shooting measures have been implemented at the WRP, and the ammonia levels remained below the 90th percentile of 2 mg/L between 20 June 2016 and the end of the reporting period.</p>	'GTPL_letter_Googong_WRP ammonia incident follow up_20160718.pdf'
D5A	Prior to the discharge of any water to the environment through Discharge Point 3, evidence of compliance with the water quality parameters identified in D5 must be provided for the Secretary's information.	GTPL and QPRC	Open	Not Compliant		<p>On the 27 November 2015, prior to the discharge of any water, water monitoring data was sent to the EPA and no issues were raised. However, due to an oversight the data was not provided to the Secretary of the DP&E.</p>	
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 QPRC	Open	Compliant	December 2014	<p>Baseline monitoring in accordance with the draft WMP commenced in September 2013 and ended in December 2014.</p> <p>Process verification commenced on 3 December 2015 after at least 12 months of baseline data had been obtained.</p>	

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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> <ul style="list-style-type: none"> (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, (b) specific consideration of relevant measures to address any requirements identified in the documents referred to under condition A1, (c) a management organisational chart identifying the roles and responsibilities for all relevant employees involved in the operation of the project, (d) overall environmental policies and principles to be applied to the operation of the project, (e) management policies to ensure that environmental performance goals are met and to comply with the conditions of this approval, (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: <ul style="list-style-type: none"> (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, (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, (iii) air quality impacts, particularly odour, (iv) operational traffic impacts, particularly during maintenance, and procedures to restore any damage attributable to the project during the operation phase; (v) mosquito control and the potential for algal blooms; 	GTPL, contractor s, QPRC and Icon Water	Open	Compliant	10-Aug-15	<p>GTPL has prepared an OEMP for the operation of Stage AB Network and Stage AB WRP in accordance with this condition that was submitted to the relevant agencies for comment on 15 May 2015. The OEMPs were approved by DP&E on 10 August 2015.</p> <p>Operations then commenced for Stage AB Network and process commissioning of the Stage AB WRP on 14 October 2015. Process verification of the Stage AB WRP commenced on 3 December 2015.</p> <p>Monthly environmental operational reports were submitted to GTPL to assess the implementation of the OEMP. These reports only addressed the obligations and responsibilities of GTPL, not Icon Water or QPRC.</p>	'Stage_AB_Network_WRP_OEMPs_DP&E_approval_100815' provided with previous Compliance Tracking Report.
		GTPL, contractor s, and QPRC	Open	Compliant		<p>Mosquito control and algal bloom risks have been addressed in the OEMP and WMP. The recycled water will pass through the stormwater ponds and stormwater management system before entering Googong Creek, greatly reducing the likelihood of mosquitoes and algal blooms in waterways.</p>	

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	<p>(vi) impacts of operational activities on the Googong Dam and foreshores area, particularly water quality,</p> <p>(vii) hazard and safety and emergency management measures including measures to prevent and control bushfires,</p> <p>(g) procedures for the periodic review and update of the Operation Environmental Management Plan as necessary,</p> <p>(h) the Management Plans listed under conditions D8 and D9, and</p> <p>(i) the environmental monitoring requirements outlined under this approval.</p>			Compliant			
	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.	GTPL, contractors, QPRC and Icon Water	Open	Compliant	10-Aug-15	Operations commenced on 14 October 2015 following approval of the Stage AB Network and Stage AB WRP OEMP in August 2015. A revised OEMP for the Googong Township Recycling Plant and Network was prepared and submitted to DP&E on 19 April 2016. Approval was granted by the Director-General/Secretary on 14 June 2016.	'Stage_AB_Network_WRP_OEMPs_DP&E_approval_100815' provided with previous Compliance Tracking Report.
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</i> and Volume 2, section 8.2.3: <i>Aquatic Ecosystems</i> , and include:	GTPL	Open	Compliant	10-Nov-15	<p>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 and ended in December 2014.</p> <p>The WMP was updated and issued to agencies for their review in June 2015 as baseline monitoring had been completed. The WMP has been submitted to DP&E and was approved on 10 November 2015, prior to any discharge of recycled water to the environment.</p> <p>During the reporting period, weekly monitoring occurred to assess and monitor the quality of the water discharged from the WRP. These monitoring events demonstrate that GTPL have been efficiently implementing the WMP and complying with this condition.</p>	'WMP_DP&E_Approval_101115' provided with previous Compliance Tracking Report.

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
	<p>(a) a Surface Water Monitoring Program, including:</p> <ul style="list-style-type: none"> (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: <ul style="list-style-type: none"> – surface water flows and quality, – impacts on water users, – stream health and habitat, and – channel stability; 	GTPL	Open	Compliant	10-Nov-15	<p>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.</p> <p>During the reporting period, weekly effluent monitoring was undertaken at nine locations. From 1 June to 20 June 2016, the WRP was discharging water with elevated levels of ammonia. After investigating the exceedance in consultation with MWH (GTPL's engineers) and JHPL (operators of the WRP), GTPL understands that the elevated ammonia levels were attributable to the following factors:</p> <ul style="list-style-type: none"> ▪ Onset of winter and colder temperatures, which led to reduced nitrification performance in the bioreactor. ▪ Coincidentally, due to commissioning there was also more frequent operation of the centrifuge, which then returned high ammonia centrate back to the bioreactor. This additional nitrogen load is significant at this stage given the incoming wastewater load is low in comparison to the design load. ▪ Less onsite monitoring of the filtrate ammonia, which led to late detection of the exceedance (the monitoring program prepared for the WRP recommends daily monitoring when coming into winter, which would have identified this exceedance prior to the formal results which take two weeks). <p>However, since the monitoring results from 1 June 2016 became available, a number of trouble-shooting measures have been implemented at the WRP, and the ammonia levels have remained below the 90th percentile of 2 mg/L between 20 June 2016 and the end of the reporting period.</p>	http://compliance.googong.net/iwc/water-management-plan.php
D8 (con't)	<p>(b) a Groundwater Monitoring Program, including:</p> <ul style="list-style-type: none"> (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, (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; 	GTPL	Open	Compliant	10-Nov-15	<p>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.</p> <p>Continuous recording of groundwater levels occurred in shallow bore loggers as part of the groundwater monitoring program.</p>	http://compliance.googong.net/iwc/water-management-plan.php
	<p>(c) a Recycled Water Flow Release Protocol, including:</p> <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	10-Nov-15	<p>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.</p> <p>The Recycled Water Flow Release Protocol was not activated during the reporting period.</p>	http://compliance.googong.net/iwc/water-management-plan.php

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
	<p>(d) a Surface and Ground Water Response Plan, including:</p> <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	10-Nov-15	<p>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.</p> <p>During the reporting period there were three surface water exceedance reports and one groundwater exceedance report prepared. It was determined that these exceedances were not caused by the operation of the WRP. As per the WMP, the Surface and Groundwater Response Plan was followed to appropriately respond and mitigate the exceedances.</p>	http://compliance.googong.net/iwc/water-management-plan.php
	<p>(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:</p> <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	10-Nov-15	<p>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.</p> <p>No irrigation using recycled water was undertaken during the reporting period.</p>	http://compliance.googong.net/iwc/water-management-plan.php

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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	10-Nov-15	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 and ended in December 2014. The WMP has been updated and issued to agencies (EPA, OEH, NSW Office of Water, NSW Health and Department of Primary Industries (Fisheries), QCC and Icon Water) for their review in June 2015 as baseline monitoring has been completed. A meeting with QCC was scheduled in August 2015 regarding the completion of the WMP review and submission to DP&E. The WMP has been submitted to DP&E and was approved on 10 November 2015, prior to any discharge of recycled water to the environment.	Provided with previous compliance tracking report.
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: <ul style="list-style-type: none"> (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: <ul style="list-style-type: none"> (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. 	GTPL	Open	Compliant	28-Oct-14	<p>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.</p> <p>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 project 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.</p> <p>A revised Plan (Rev 5) was approved by DP&E on 28 October 2014 and DoE on 2 September 2014. The amendment related to Project Modification 3 and included a change to the Pink-tailed Worm-Lizard conservation area boundary.</p>	'DP&E Mod 3 and rev5 PTWL PMP 281014' and 'DoE_2011-5829 sgn letter' provided with previous Compliance Tracking Report.
				2-Sep-14	The Pink-tailed Worm-lizard Protection and Management Plan (Rev 5) was developed in consultation with Office of Environment and the DoE (formerly DSEWPaC), and was approved by DoE on 2 September 2014.		

CoA	Synopsis of Condition	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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, but partial road restoration will continue as required. Road verges will be restored in accordance with the LMPs for each stage of the IWC Project.	
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	16-Jun-16	On 16 June 2016 GTPL wrote to the DP&E to notify that QPRC advised GTPL, on 6 May 2016, that there was no construction-related traffic damage that required rectification. There were no recommendations that required addressing by GTPL or their contractors.	'160606 CoA D11 – Road Authority Inspection'
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		Two Category Two incidents occurred during the reporting period relating to a minor chemical spill and a high ammonia presence in the discharged water. These incidents were reported to all relevant authorities in accordance with the Project's Incident Response Procedure.	'20160218 Minor Ferric Spill Report' and 'GTPL_letter_Googong_WRP ammonia incident follow up_20160718'
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 two Category Two incidents that occurred during the reporting period, DP&E made no additional requests.	

Table A3 IWC Project Stage 1 Statement of Commitments

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.	Aquatic ecology impacts are considered under WQ4.	GTPL	Open	Compliant		Noted.	
		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.				10-Nov-15	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. Collection of baseline data commenced September 2013 and ended December 2014. During the reporting period, water quality and aquatic ecology was monitored monthly to monitor impacts of the Stage 1 works on the waterways.	
		Riparian vegetation, weeds and invasive scrub will be managed within the Googong township site. This will include surveying, mapping and managing invasive species.					Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the respective Flora and Fauna Management Plans (FFMPs) (Weed Management Strategy).	
A2	Minimise impacts on aquatic habitats.	Riparian zones within the Googong township site will be revegetated with species of local providence to increase stability. Further measures to ensure minimal impact on aquatic habitats are addressed in Statement of Commitments WQ1-WQ5.	GTPL	Open	Compliant		Compliance with this condition has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the respective FFMPs and/or Landscape Management Plans.	
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		Odour data for the Stage AB WRP has been collected during the process verification stages of the WRP in December 2015 to assist in validation of the dispersion modelling. Odour monitoring was conducted again for the WRP in March 2016. Design odour criteria for various components of the WRP were set and informed by the dispersion modelling and if met would meet the 2 odour units (OU) limit at the nearest receiver. No odour testing was at done at the receivers, only at the various WRP components, and the odour was found to be within the criteria set.	
							Meteorological data collection at the WRP site commenced in July 2013, more than 12 months prior to the scheduled commissioning of the WRP. Data was used to inform the detailed design of the Stage AB WRP.	
						17-Mar-16	Odour data for the Stage AB WRP has been collected during the process verification stages of the WRP on 15-17 March 2016 to assist in the compliance to CoA B6.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
AQ2	Minimise odour impacts of WRP and SPS at nearby receivers.	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).	GTPL and contractor	Open	Compliant		An odour control unit and aerator/blower have been installed at SPS1 and SPS2 and have been operational during the reporting period. For the Stage AB WRP, certain areas like the inlet works area, secondary treatment tanks etc are covered for odour control. In addition, the Stage AB WRP has a centralised odour control facility which consists of activated carbon filters, two extraction fans (with acoustic hoods) and exhaust discharge stack. The odour control system is located on a bundled reinforced concrete slab.	
AQ3	Monitor, verify then act on odour complaints.	Odour complaints will be registered and investigated. Verified odour issues will be addressed with engineering, operational or other mitigation and management measures.	GTPL	Open	Compliant		GTPL has prepared an OEMP for Stage AB Network and Stage AB WRP that considers odour risks and complaints. No odour complaints were received during the reporting period.	
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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the Air Quality Management Plans (AQMPs) for the respective stages. No dust complaints were received during the reporting period.	
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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the Noise and Vibration Management Plans (NVMPs), AQMPs, and the Blast Management Plans for the respective stages. No blasting works have been undertaken during the reporting period.	
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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the AQMPs for the respective stages. No dust complaints were received during the reporting period.	
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 has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the AQMPs for the respective stages. No burning took place on site and no smoke-related complaints were received during the reporting period.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the AQMPs for the respective stages. No air quality complaints were received during the reporting period.	
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 has 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 (now DP&E). DP&I approved the CEMP on 18 October 2012.	'DP&I Approval Stage A Network West CEMP_18Oct2012.pdf' and 'Stage A Network CEMP Agency Correspondence.pdf' provided with previous Compliance Tracking Report.
						05-Dec-12	A CEMP has been prepared for Stage A – Network (east). The plan was provided to relevant authorities/agencies for comment in June and July 2012. QPRC was 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 (now DP&E). DP&I approved the CEMP on 5 December 2012.	'DP&I Approval Stage A Network East CEMP_5Dec2012.pdf' and 'Stage A Network CEMP Agency Correspondence.pdf' provided with previous Compliance Tracking Report.
						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 (now DP&E). DP&I approved the CEMP on 11 December 2012.	'DP&I Stage AB WRP CEMP approval_11Dec2013' and 'Stage AB WRP CEMP agency comments_2013' provided with previous Compliance Tracking Report.
						27-Aug-14	GTPL prepared the Stage B Network CEMP in consultation with the following stakeholders: the former QCC, OEH, EPA, RMS, NSW Office of Water and DoE. The CEMP was provided to DP&E for approval. The DP&E approved the CEMP on 27 August 2014. See correspondence attached.	'DP&E Letter approving CEMP Stage B Network 270814' and 'Stg B Network CEMP Agency Letters' provided with previous Compliance Tracking Report.
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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the NVMPs for the respective stages. OOHW occurred every Saturday and Sunday during the reporting period, however community notifications were not required as the activities were not expected to generate greater than 5dBA above background noise levels.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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		<p>GTPL has prepared a Stage 1 Community Engagement and Stakeholder Management Plan. The actions of this plan have been implemented during the reporting period. These include regular and close liaison with QPRC and Icon Water through design and construction and seeking feedback from other government agencies on the various management plans required for the project.</p> <p>A Bush on Boundary (BoB) Group has been formed for the Googong Township and includes representatives from local catchment management authorities, QPRC and community members. A site visit occurred on 15 March 2016 where members of the BoB group were able to ask questions relating to the design and operations of the WRP site. In addition, a BoB meeting was held on 19 July 2016 and an update on the IWC Project was provided.</p>	
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	22-Jun-16	<p>Compliance with this condition has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the Stage 1 Community Engagement and Stakeholder Management Plan and Community Information Plan.</p> <p>During the reporting period, one advertisement providing a construction update was included in the Queanbeyan Age on 22 July 2016. The previous advertisement was posted 11 December 2015.</p> <p>There were no construction-related noise complaints during the reporting period.</p>	'22Jul 2016 CGOO0316 IWC 16X2 QA Mono Press Ad v2.pdf'
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		<p>GTPL has updated its Community Education Strategy for Stage 1 of the IWC Project in consultation with QPRC and NSW Health. In addition, QPRC has prepared a Recycled Water Quality Management Plan that also details education and consultation strategies.</p> <p>GTPL and QPRC will continue to progress actions before the IWC Project moves into operation phase and recycled water is available to residents. Key education activities that have occurred during the reporting period include:</p> <ul style="list-style-type: none"> ▪ Survey of Googong residents to establish a baseline of their knowledge about recycled water and its use. ▪ Holding two drop-in information sessions in Googong township on 16 and 19 March 2016. ▪ Insertion of fliers with QPRC rates notices providing information about the use of recycled water in Googong. ▪ Recycled water updates included in the Googong township and QPRC community newsletters. ▪ Fact sheet mail outs to Googong residents. ▪ Posting fact sheets and other information on GTPL and QPRC websites. 	http://www.qcc.nsw.gov.au/Services/GoogongRecycledWater/Googong-Recycled-Water

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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		<p>Compliance with this condition has been ongoing throughout Stage 1 works and 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.</p> <p>There were two consistency assessments submitted to the DP&E for Stage 1 of the IWC Project during the reporting period. Refer to Section 2.3 of this report for more information.</p>	
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 has been ongoing throughout Stage 1 works and managed through the CTP which details the commitment to ensure design changes are assessed for consistency with the approved project.</p> <p>There were no modifications submitted to DP&E during this reporting period.</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 various Stage 1 CEMPs have been prepared with consideration of the QPRC's Development Construction Specifications which are also provided to contractors. QPRC were 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: the former QCC, OEH and DoE.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
						05-Dec-12	GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following agencies: the former QCC, OEH and DoE.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
						11-Dec-13	GTPL has prepared a Stage AB WRP FFMP in consultation with the following agencies: the former QCC, EPA, OEH and DoE.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
						27-Aug-14	GTPL has prepared a Stage B Network FFMP in consultation with the following agencies: the former QCC, EPA, OEH and DoE.	http://compliance.googong.net/iwc/stage-b---network-.php

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
		<ul style="list-style-type: none"> Minimising the disturbance of native flora and hollow-bearing trees. 	GTPL and contractor	Open	Compliant		Compliance with this condition has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the FFMPs for the respective stages.	
	<ul style="list-style-type: none"> Implementing weed control measures. 					Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the FFMPs (Weed and Pest Management Strategy) and LMPs for the respective stages. During the reporting period, normal maintenance was undertaken to ensure the area was weed free. No native vegetation was removed.		
	<ul style="list-style-type: none"> Revegetating with endemic species. 					Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the FFMPs and LMPs for the respective stages. During the reporting period, no landscape works were undertaken.		
	<ul style="list-style-type: none"> Minimising soil disturbance. 					Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the FFMPs and SWMPs for the respective stages. During the reporting period, the sediment pond required during construction of the Stage AB WRP was removed on 12 February.		
	<ul style="list-style-type: none"> Implementing clearing protocols to protect flora and fauna. 					Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the FFMPs for the respective stages. 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.		
F2	Protect threatened flora and fauna.	The Flora and fauna management plan (within the CEMP) will contain specific additional measures for threatened species, including:	GTPL	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A Network (west) FFMP in consultation with the following agencies: the former QCC, OEH and DoE).	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
		05-Dec-12				GTPL has prepared a Stage A – Network (east) FFMP in consultation with the following agencies: the former QCC, OEH and DoE.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php	
		11-Dec-13				GTPL has prepared a Stage AB WRP FFMP in consultation with the following agencies: the former QCC, EPA, OEH and DoE.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php	
		27-Aug-14				GTPL has prepared a Stage B Network FFMP in consultation with the following agencies: the former QCC, EPA, OEH and DoE.	http://compliance.googong.net/iwc/stage-b---network-.php	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
		<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 and contractor	Complete	Compliant		The requirements of this commitment have been managed through the mitigation measures in the various Stage 1 FFMPs that detail management measures for working in proximity to native vegetation (flora and fauna constraints maps). However, no works were undertaken near threatened flora species and threatened fauna habitats during the reporting period.	
				Open	Compliant		The requirements of this commitment have been managed through the mitigation measures in the various Stage 1 FFMPs that detail management measures for working in proximity to the Pink-Tailed Worm Lizard and the Hoary Sunray. However, no works were undertaken near these areas during the reporting period.	
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		GTPL has prepared an OEMP for Stage AB Network and Stage AB WRP which detail emergency, spill and maintenance procedures. During the reporting period, GTPL has been responsible for the implementation of the OEMPs up to the point of handover of the operations of the Stage 1 works to QPRC on 5 July 2016.	http://compliance.googong.net/iwc/operation-environmental-management-plans.php
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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the SWMPs for the respective stages. No groundwater issues were identified during the reporting period.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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	18-Oct-12	GTPL has prepared SWMPs all of Stage 1 works that outline management measures and procedures relating to spills.	http://compliance.googong.net/iwc/construct-on-environmental-management-plans.php
						05-Dec-12		
						11-Dec-13	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.	
						27-Aug-14	GTPL has prepared SWMPs for Stage A Network (west), Stage B Network, and the Stage AB WRP that outline management measures and instructions around refilling.	
						18-Oct-12	There was one Category Two incident related to spills during the reporting period. On 18 February 2016 a small quantity (<1 L) of ferric sulphate spilled at the WRP and pooled on the ground and dried, caused by an open valve. The spill was cleaned and disposed of appropriately onsite.	
						11-Dec-13		
						27-Aug-14		
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	10-Nov-15	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 and ended in September 2014. Additional monitoring was undertaken in December 2015.	'Draft WMP agency consultation_2013' provided with previous Compliance Tracking Report.
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, SPS2 and Interim Reservoir sites have been designed to minimise earthworks so that the impact on natural surface levels 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, SPS2 and Interim Reservoir sites have been designed in accordance with the Water Supply Code.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
G6	Minimise the potential for waterlogging.	The risks associated with waterlogging will be considered and accommodated through the design of the drainage system. Irrigation systems will be designed and scheduled to avoid overwatering.	GTPL	Open	Compliant	10-Nov-15	This commitment is being met through the design of the reticulation network in the subdivision in addition to the IWC infrastructure.	
							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.	http://compliance.googong.net/upload/pdfs/project-documents/Appendix_E_Googong_WMP_IM_P%20v11-0.pdf
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. As a preventative measure, to avoid future bare soil patches and erosion, salt-tolerant landscaping will be used in low-lying areas.	GTPL	Open	Compliant	10-Nov-15	GTPL has prepared a WMP that addresses soil monitoring. Soil monitoring was undertaken in eight monitoring sites in low lying areas in April 2015 prior to commencement of the commissioning of the WRP in December 2015.	http://compliance.googong.net/iwc/water-management-plan.php
							A LMP for Stage A Network, Stage AB WRP and Stage B Network has been prepared with consideration of 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.	http://compliance.googong.net/iwc/landscape-management-plans.php
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	10-Nov-15	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 and ended in September 2014. Additional monitoring was undertaken in December 2015.	http://compliance.googong.net/iwc/water-management-plan.php
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 has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the Heritage Management Plans (HMPs) for the respective stages.	
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 has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the HMPs for the respective stages which included an Unexpected Heritage Finds Procedure. No unexpected finds occurred during the reporting period.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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 QPRC	Open	Compliant		QPRC has prepared a 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. Detailed design of the Stage AB WRP has been undertaken so that the WRP can operate to meet the requirements of this plan and the CoA D5 effluent criteria.	
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 QPRC	Open	Compliant	9-Feb-15	<p>QPRC has prepared a 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. Detailed design of the Stage AB WRP has been undertaken so that the WRP can operate to meet the requirements of this plan and the CoA D5 effluent criteria.</p> <p>Approval to construct Stage AB WRP was granted by the Minister for Primary Industries (under Section 60 of the <i>Local Government Act 1993</i>) on 9 February 2015.</p> <p>During the reporting period, GTPL have been operating the WRP in the process verification phase to ensure the WRP is operating to the standards required of a sewage treatment plant in NSW.</p>	'NOW_Googong Sewage Treatment Plant - Step 7 Section 60 approval'

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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 QPRC	Open	Compliant		<p>QPRC has prepared a 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. Approval to construct Stage AB WRP was granted by the Minister for Primary Industries (under Section 60 of the <i>Local Government Act 1993</i>) on 9 February 2015.</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 SoC CS3 for more information on the Community Education Strategy and communication regarding recycled water for operation.</p> <p>During the reporting period, GTPL have been operating the WRP in the process verification phase to ensure the WRP is operating to the standards required of a sewage treatment plant in NSW. Future operational monitoring will now be the responsibility of QPRC, as Stage 1 works (including the WRP) were handed over from GTPL to QPRC on 5 July 2016.</p>	<p>http://googong.net/sales/design-guidelines.php</p> <p>http://www.qcc.nsw.gov.au/Services/GoogongRecycledWater/Googong-Recycled-Water</p>
N1	Minimise the noise impact associated with construction.	<p>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:</p> <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. 	GTPL	Complete	Compliant	05-Dec-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.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
						11-Dec-13	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.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
						27-Aug-14	GTPL has prepared a Stage AB WRP 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.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
						27-Aug-14	GTPL has prepared a Stage B Network 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.	http://compliance.googong.net/iwc/stage-b---network-.php

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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		NVMPs and Blast Management Plans are in place for Stage 1 works that considered vibration impacts and meet the requirements of this condition. No blasting activities were undertaken during the reporting period.	
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	Open	Compliant		Condition not applicable to construction of Stage A Network (west), Stage B Network, Stage AB WRP or operation of Stage A Network. Noise attenuation has been considered as part of the detailed design for the Stage AB WRP. Operational noise testing has been undertaken as part of commissioning for the WRP by the contractor. Noise assessments, as part of the NVMP, occurred in May and June 2016, and found that noise levels of the operational WRP were within established noise limits, thereby complying with this condition.	
NH1	Avoid and/or minimise impacts on non-indigenous heritage.	Generally, non-indigenous heritage on the site will be managed in accordance with Appendix G of the EA. Construction and maintenance activities will be managed to avoid structural damage on heritage items as a result of vibration. 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.	Contractor	Open	Compliant		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the HMPs for the respective stages. There were no heritage incidents to non-Indigenous heritage items recorded during the reporting period.	
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		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 has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the HMPs for the respective stages. No unexpected finds occurred during the reporting period.	

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
OP1	Ensure comprehensive monitoring of operation of the water cycle.	<p>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:</p> <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		GTPL has prepared a WMP to meet this condition (refer CoA D8) which was approved by DP&E on 10 November 2015. Baseline data has been obtained and 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 and ended in December 2014.	http://compliance.googong.net/iwc/water-management-plan.php
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		<p>Telemetry has been installed at the BWPS, Interim Reservoirs and SPS1 during construction.</p> <p>GTPL has prepared an OEMP for Stage AB Network and Stage AB WRP that outlines requirements to obtain operational data from the telemetry which will help to inform design for future stages.</p>	http://compliance.googong.net/iwc/operation-environmental-management-plans.php
OP3	Adaptive management	<p>Management plans will be reviewed with consideration of the outcomes of monitoring programs:</p> <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		GTPL has prepared an OEMP for Stage AB Network and Stage AB WRP that includes information about the review of management plans and adaptive management. The WMP has considered additional mitigation measures to address when the water cycle infrastructure is operating outside the modelled or expected parameters.	http://compliance.googong.net/iwc/operation-environmental-management-plans.php
R1	Manage the operational risks associated with storage and delivery of chemicals.	<p>Measures typical of facilities of the nature and size of the Project will include:</p> <ul style="list-style-type: none"> ▪ Storing relevant chemicals below threshold quantity levels. ▪ Undertaking activities in accordance with relevant MSDSs. ▪ 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 MSDSs. ▪ Developing and implementing appropriate procedures for delivery, handling and accidental spills of chemicals. 	GTPL and contractor	Open	Compliant		<p>Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the Hazard and Risk Safety Management Plans (HRSMP) for the respective stages.</p> <p>There was one Category Two incident related to spills during the reporting period. On 18 February 2016 a small quantity (<1 L) of ferric sulphate spilled at the WRP and pooled on the ground and dried, caused by an open valve. The spill was cleaned and disposed of appropriately offsite.</p>	'20160218 Minor Ferric Spill Report.pdf'

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R2	Manage risks in emergency and/or maintenance situations at the key infrastructure.	<p>The OEMP and RWQMP will outline the management of emergency situations for all key water cycle infrastructures. 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 (eg 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 SPSs. Overflows at the WRP and the SPSs. 	GTPL, QPRC and Icon Water	Open	Compliant		<p>Condition not applicable to construction of Stage A Network (west), Stage B Network, and Stage AB WRP. However detailed design of the WRP has considered emergency infrastructure requirements as required by this condition.</p> <p>GTPL has prepared an OEMP for Stage AB Network and Stage AB WRP that includes information about emergency situations as required by this condition (telemetry, alarms, and back up power supply).</p> <p>In addition, QPRC 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. Approval to construct Stage AB WRP was granted by the Minister for Primary Industries (under Section 60 of the <i>Local Government Act 1993</i>) on 9 February 2015.</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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the SWMPs for the respective stages.	
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. Backfilling of trenches in layers with compaction. Management and exclusion of site access to assist with site recovery. 	GTPL and contractor	Complete	Compliant	18-Oct-12	GTPL has prepared a Stage A Network (west) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
						05-Dec-12	GTPL has prepared a Stage A Network (east) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
						11-Dec-13	GTPL has prepared a Stage AB WRP SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
						27-Aug-14	GTPL has prepared a Stage B Network SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/stage-b---network-.php

SoC	Objective	Commitment	Responsibility	Status	Compliance with condition during reporting period	Completion Date	Comment	Verification
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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the SWMPs for the respective stages.</p> <p>There was one Category Two incident related to spills during the reporting period. On 18 February 2016 a small quantity (<1 L) of ferric sulphate spilled at the WRP and pooled on the ground and dried, caused by an open valve. The spill was cleaned and disposed of appropriately offsite.</p>	'20160218 Minor Ferric Spill Report.pdf'
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, and 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 has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the SWMPs for the respective stages. No contamination issues were recorded during the reporting period.</p> <p>No contaminated waste/spoil was identified during the reporting period.</p>	'Geotechnique Contamination Assessment_7Aug2012.pdf' provided with previous Compliance Tracking Report.
				Complete	Compliant	09-Aug-12	<p>GTPL has investigated the presence and extent of potential soil contamination for Stage AB 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.</p>	
				N/A	N/A	N/A	<p>The contamination assessment found that given the AEC2 was situated away from the Stage A Network, Stage B Network and Stage AB WRP sites, a desktop study and walkover / site inspection of the site was sufficient due diligence.</p>	
				Open	Compliant		<p>Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the SWMPs for the respective stages. No contamination issues were recorded during the reporting period.</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.	Ensure that appropriate materials are used to mitigate against the corrosive impacts of high salinity.	GTPL	N/A	N/A	N/A	This condition has been met during detailed design of Stage AB WRP.	
		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.					This condition will be met during detailed design phase for the stormwater management system as part of the Part 4 subdivision works.	
		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.					This condition has been met during the detailed design and process commissioning phases for the WRP and implementation of the WMP (as per CoA D8).	
		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.					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. During the reporting period, a soil monitoring assessment was undertaken to assess the soil quality since the previous assessment in April 2015. In the April 2016 assessment soil samples were not found to be sodic, indicating minimal construction and operational impacts to levels of soil salinity.	http://compliance.googong.net/iwc/water-management-plan.php
		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: <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. 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.	QPRC	N/A	N/A	N/A	GTPL has updated its Community Education Strategy for Stage 1 of the IWC Project in consultation with QPRC and NSW Health. In addition QPRC has prepared a RWQMP that also details education and consultation strategies. GTPL and QPRC will continue to progress actions before the IWC Project moves into operation phase and recycled water is available to residents.	http://www.qcc.nsw.gov.au/Services/GoogongRecycledWater/Googong-Recycled-Water

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	18-Oct-12	GTPL has prepared a Stage A Network (west) Traffic Management Protocol (TMP) in accordance with this commitment and in consultation with the following agencies: the former QCC and RMS.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
						05-Dec-12	GTPL has prepared a Stage A – Network (east) TMP in accordance with this commitment and in consultation with the following agencies: the former QCC and Palerang Council and RMS.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
						11-Dec-13	GTPL has prepared a Stage AB WRP TMP in accordance with this commitment and in consultation with the following agencies: the former QCC and RMS.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
						27-Aug-14	GTPL has prepared a Stage B Network TMP in accordance with this commitment and in consultation with the following agencies: the former QCC and RMS.	http://compliance.googong.net/iwc/stage-b---network.php
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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the TMPs for the respective stages. In the reporting period, no Section138 Certificates have been issued by QPRC.	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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the TMPs for the respective stages. No permits have been required to date.	
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		Compliance with this condition has been ongoing throughout Stage 1 works and managed through the mitigation measures detailed in the TMPs for the respective stages.	

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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	29-Jun-15	A TMP for tankering operations during operation of Stage AB Network and Stage AB WRP has been included in the OEMP (refer Appendix E and Appendix G respectively) which addresses these conditions. Routes, access arrangements, timing restrictions and parking arrangements are detailed in the TMP.	http://compliance.googong.net/iwc/operation-environmental-management-plans.php
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 has been ongoing throughout Stage 1 works and managed through mitigation measures detailed in the FFMPs for the respective stages and limiting clearing as much as practicable.</p> <p>Planting to mitigate visual impacts was included as part of the LMP for Stage AB Network and Stage AB WRP. No vegetation clearance occurred during the reporting period. Additional planting and maintenance was undertaken at the WRP and berm during the reporting period. Most landscape works within and surrounding the WRP are complete, however works in the boundary areas to the north and east of the WRP are yet to be completed due to a track being utilised. These areas will be rehabilitated by the subdivision civil contractor at the appropriate time, and will be managed by QPRC.</p>	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
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, Detailing siting and design of any elements over and above the reservoirs to minimise visibility (eg 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, and Considering soil and microclimate factors and amelioration to ensure healthy and rapid tree growth. 	GTPL	N/A	N/A	N/A	Condition not applicable to Stage 1 (i.e. Stage A and B). This condition will be met during detailed design phase of the permanent reservoirs (Stage C/D).	

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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	18-Oct-12	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.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
						5-Dec-12	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.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
						11-Dec-13	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.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
						27-Aug-14	GTPL has prepared a Stage B Network WRMP that outlines the principles of the resource management hierarchy. No waste management issues were recorded during the reporting period.	http://compliance.googong.net/iwc/stage-b---network.php
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>GTPL has prepared an OEMP for Stage AB Network and Stage AB WRP that includes mitigation measures to meet the requirements of this commitment.</p> <p>In addition, a TMP (refer Appendix E of the OEMP for Stage AB Network and Appendix G for Stage AB WRP) has also been prepared for operational activities requiring vehicle routes and controlled vehicle movements, thus satisfying this condition.</p>	http://compliance.googong.net/iwc/operation-environmental-management-plans.php

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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	GTPL has prepared a Stage A Network (west) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
						05-Dec-12	GTPL has prepared a Stage A – Network (east) SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
						11-Dec-13	GTPL has prepared a Stage AB WRP SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
						27-Aug-14	GTPL has prepared a Stage B Network SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/stage-b---network.php

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WQ2	Minimise the risk of surface water contamination.	<p>A spill management and response procedures will be developed in the CEMP for the construction phase of the Project. These will specify that:</p> <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	GTPL has prepared a Stage A Network (west) SWMP that outlines the spill management response in accordance with this commitment.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
						05-Dec-12	GTPL has prepared a Stage A – Network (east) SWMP that outlines the spill management response in accordance with this commitment.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-east.php
						11-Dec-13	GTPL has prepared a Stage AB WRP SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-ab---water-recycling-plant-wrp.php
						27-Aug-14	GTPL has prepared a Stage B Network SWMP that outlines the management measures for erosion and sedimentation control in accordance with this commitment.	http://compliance.googong.net/iwc/stage-b---network.php
WQ3	Ensure bank stabilisation in construction sites.	<p>The CEMP will incorporate measures to ensure that creek banks are stabilised during the construction phase, such as:</p> <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	<p>GTPL has prepared a Stage A Network (west) SWMP that outlines the measures to stabilise creek banks.</p> <p>There are no creek banks at the Stage AB WRP construction site.</p> <p>There are no creek banks at the Stage B Network construction site.</p>	http://compliance.googong.net/iwc/googong-township-iwc-project-stage-a---network-west.php
WQ4	Monitor impacts on waterways.	<p>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.</p> <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, Icon Water). Such consultation will ensure the sharing of available data for the Queanbeyan River for comparative and impact assessment purposes. 	GTPL	Open	Compliant		<p>GTPL has prepared a Surface Water and Aquatic Ecology Monitoring Program as part of the WMP (refer CoA D8) to address this commitment. The WMP was developed in consultation with the stakeholders listed in this condition.</p> <p>Surface/groundwater monitoring commenced in September 2013 and ended in December 2014 to allow for at least 12 months of monitoring prior to operation of the WRP. The WMP has been updated with the baseline monitoring results, issued to agencies for review and submitted and approved by DP&E on 11 November 2015 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>During the reporting period, water quality and aquatic ecology was monitored at various sites along the Queanbeyan River at monthly intervals.</p>	http://compliance.googong.net/iwc/water-management-plan.php

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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. 					During the reporting period, water quality and aquatic ecology was monitored at various sites along the Queanbeyan River at monthly intervals.	
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	Open	Compliant		GTPL has prepared an OEMP that includes erosion and sediment control measures to meet the requirements of this commitment.	