

Upper South Creek Advanced Water Recycling Centre and Pipelines Project

Stage 1 Staging Report

Document Number: SWC005-SW-PROJ-GEN-RPT-000001
Revision: 02

Date	Rev	Remarks	Prepared By	Reviewed By & Approved By
31/05/2023	A	Initial draft for internal SW review	C.Cahill	G. Fowler
02/06/2023	1	Issued for ER endorsement	C.Cahill	G.Fowler
08/06/2023	2	Updated to address ER comments	C.Cahill	G.Fowler

Contents

Definitions and Abbreviations	3
1. Introduction	4
1.1 Background	4
1.2 Planning Approvals and Statutory Framework.....	4
1.2.1 Planning Framework of Related Development	5
1.3 Purpose of this Report	6
2. Project Staging.....	9
2.1 Stage 1.....	10
2.1.1 AWRC Stage 1 Construction activities and indicative timeframes.....	13
2.1.2 The AWRC Green Space.....	14
2.1.3 Treated Water and Brine Pipeline Construction and indicative timeframes	15
2.2 Stage 2 (beyond the scope of this Staging Report)	17
3. Addressing Compliance through stages	20
4. Cumulative Impacts	21
5. Document Management and Notifications.....	22
Appendix A – MCOA Staging Allocation	

Definitions and Abbreviations

Acronym / term	
AEP	Annual Exceedance Probability
AWRC	Advanced Water Recycling Centre
AWTP	Advanced Water Treatment Plant
BP	Brine Pipeline
CEMP	Construction Environmental Management Plan
CGD	City Growth and Development
Construction	As defined in the CSSI Planning Approval (SSI 8609189)
CSSI	Critical State Significant Infrastructure
CTP	Compliance Tracking Program
DCCEEW	Department of Climate Change, Energy, the Environment and Water (Commonwealth)
DPE	NSW Department of Planning and Environment
EIS	Environmental Impact Statement
EMS	Environmental Management System
EP&A Act	Environmental Planning and Assessment Act 1979 (NSW)
EPBC Act	Environment Protection and Biodiversity Conservation Act 1999 (Cth)
ER	(Independent) Environmental Representative
FBC	Final Business Case
JHT	John Holland Trility (the Delivery Partner)
MCoA	Minister's Conditions of Approval
ML/d	Mega litres per day
Planning Secretary	The Secretary of the NSW Department of Planning and Environment
POEO Act	Protection of the Environment Operations Act 1997 (NSW)
Principal, the	Sydney Water Corporation (SWC)
SBC	Strategic Business Case
SEARs	Secretary's Environmental Assessment Requirements
SWGGA	Southwest Growth Area
UMM	Updated Management Measure
TW	Treated Water
USC	Upper South Creek
WSAGA	Western Sydney Aerotropolis Growth Area (or Aerotropolis)

1. Introduction

1.1 Background

The Upper South Creek (USC) Advanced Water Recycling Centre (AWRC) and Pipelines Project – Stage 1 (the project) will support the population growth and economic development of the Western Sydney Aerotropolis Growth Area (WSAGA or Aerotropolis), Southwest Growth Area (SWGA) and the new Western Sydney International Airport. The project will provide wastewater services to Western Sydney to produce high-quality treated water for non-drinking reuse and for release to local waterways.

The project will comprise the following components:

- A new Advanced Water Recycling Centre (AWRC) to collect wastewater from businesses and homes, producing high-quality treated water, renewable energy and biosolids for beneficial reuse;
- A new green space area around the AWRC, adjacent to South Creek and Kemps Creek, to support the ongoing development of a green spine through Western Sydney;
- New infrastructure from the AWRC to South Creek, to release excess treated water during significant wet weather events, estimated to occur about 3 – 14 days each year;
- A new treated water pipeline from the AWRC to the Nepean River at Wallacia Weir, to release high-quality treated water to the river during normal weather conditions;
- A new brine pipeline from the AWRC connecting into Sydney Water's existing wastewater system to transport brine to the Malabar Wastewater Treatment Plant; and
- A range of ancillary infrastructure.

A detailed description of the project is provided in Chapter 4 of the USC AWRC Environmental Impact Statement (EIS), Volume 2 and is depicted in Figures 3 to 5 of this report.

1.2 Planning Approvals and Statutory Framework

The New South Wales (NSW) Department of Planning and Environment (DPE) issued the final Secretary's Environmental Assessment Requirements (SEARs) for the project in January 2021. Sydney Water prepared an Environmental Impact Statement (EIS) responding to these requirements, which was on public exhibition on the major projects planning portal for 28 days from 21 October 2021 to 17 November 2021. During this time, due to its importance, the project was declared to be State Significant Infrastructure (SSI) and Critical State Significant Infrastructure (CSSI) by the then Minister for Planning and Public Spaces on 9 November 2021. Sydney Water submitted an Amendment Report for the proposal on 11 March 2022. This report provided a description of amendments to the

proposal that occurred since the exhibition of the EIS. The Amendment Report was on public exhibition on the major projects planning portal from 23 March 2022 to 05 April 2022.

On 28 November 2022, the DPE approved the construction and operation of the project (SSI 8609189).

In October 2020, the project was also referred to the Commonwealth Department of Climate Change, Energy, the Environment and Water (DCCEEW) for a decision on whether the project was likely to have a significant impact on any matters of national environmental significance under the Commonwealth Environment Protection and Biodiversity Conservation (EPBC) Act 1999. The project was declared a controlled action in December 2020 and the DCCEEW notification of approval for the project was received 17 February 2023 (EPBC 2020/8816).

The EIS included an environmental flows pipeline as part of Stage 1 of the project but noted it may not be built. Following project approval, Sydney Water has consulted further with stakeholders and progressed project design. A modification report (MOD1) was prepared to assess the potential impacts or changes associated with the removal of the environmental flows pipeline from the project approval. Sydney Water considers that the environmental flow benefits to the Nepean and Hawkesbury Rivers will be achieved by releasing the water into the Nepean River via the treated water pipeline, without building the environmental flows pipeline. MOD1 was approved by DPE on 26 May 2023.

1.2.1 Planning Framework of Related Development

The EIS included reference to related development that does not form part of the CSSI and will be subject to separate assessment and planning approvals, including:

- Exempt development work - Exempt development does not require assessment under Part 4 or Part 5 of the Environmental Planning and Assessment Act 1979 (EP&A Act). Exempt development works were undertaken to help inform the project design, in locations outside sensitive environments (including locations of heritage or biodiversity sensitivity).
- Utility connections to the AWRC site and any additional facilities and structures required. While the requirement for utility connections (including for power, communications, gas, water supply) was included in the EIS, they were not assessed. These required connections will be assessed by Sydney Water in separate environmental impact assessments (eg Review of Environmental Factors) as required.
- Several wastewater mains will be required to deliver the feed wastewater to the AWRC and will be sized according to their catchment area. These pipelines will form part of the wastewater collection network in the USC Servicing Area. These are not part of the project scope and were not assessed in the EIS. These feed wastewater mains will be subject to separate environmental impact assessments by Sydney Water.

- The recycled water network, which takes the high-quality treated water from the AWRC to surrounding precincts and other areas, for beneficial use, is also not part of project scope, and will therefore be assessed as part of separate approvals. These approvals are not being sought at this time because it is not clear where the pipelines will run or what their capacity will be.
- Additional resource recovery – to supplement the biosolids digestion capacity of Stage 1, Sydney Water may consider opportunities to temporarily accept other wastes for co-digestion to produce energy. Sydney Water aspires to build a separate resource recovery plant at the AWRC to become a circular economy hub and co-digest waste to generate energy. Both these elements were excluded from the scope of the project as assessed in the EIS and will be subject to further investigations and separate planning approval.
- The access road to the AWRC site, off Clifton Avenue/ Elizabeth Drive, Kemps Creek, will be completed prior to the commencement of construction. This was undertaken as a separate Sydney Water project and was not included in the scope of works assessed by the EIS. Therefore, the requirements of the CSSI planning approval do not apply. Several utility connections noted above will be included in the access road utilities corridor (or with future provisions).

This related development is not subject to the Minister's Conditions of Approval (MCoA) and will be managed separately to this Staging Report.

1.3 Purpose of this Report

This report has been prepared to document the proposed staging associated with the construction and operation of Stage 1 of the project and to address the staging requirements of the MCoA, namely conditions A10 to A15 (SSI 8609189). Table 1 cross-references sections in this report that address each MCoA requirement relating to the proposed staging approach and the Staging Report. While this Staging Report does include details of the proposed future Stage 2, the MCoA relevant to this Staging Report relate only to the proposed staging associated with the Stage 1 works.

Table 1: Relevant Staging Report requirements from SSI 8609189

MCoA	Requirement	Staging Report Section
A10	Stage 1 of the CSSI may be constructed and operated in stages (including but not limited to temporal, location or activity-based staging). Where staged construction and/or operation is proposed, a Staging Report (for either or both construction and operation as the case may be) must be prepared. The Staging Report must be endorsed by the ER and then submitted to the Planning Secretary for information no later than one month before the commencement of construction of the first of the proposed stages of construction	This document Evidence of ER endorsement will be provided when this plan is submitted for information on

MCoA	Requirement	Staging Report Section
	(or if only staged operation is proposed, one month before the commencement of operation of the first of the proposed stages of operation).	the planning portal
A11	<p>The Staging Report must:</p> <ul style="list-style-type: none"> (a) if staged construction is proposed, set out how the construction of the whole of Stage 1 of the CSSI will be staged, including details of Work and activities to be carried out in each stage and the general timing of when construction of each stage will commence and finish; (b) if staged operation is proposed, set out how the operation of the whole of Stage 1 of the CSSI will be staged, including details of activities to be carried out in each stage and the general timing of when operation of each stage will commence and finish (if relevant); (c) specify how compliance with conditions will be achieved across and between each of the stages of Stage 1 of the CSSI; and (d) set out mechanisms for managing any cumulative impacts arising from the proposed staging. <p><i>Note: A Staging Report may reflect the staged construction and operation of Stage 1 of the project through geographical activities, temporal activities or activity-based contracting and staging.</i></p>	<ul style="list-style-type: none"> a) Section 2 b) Section 2 c) Appendix A d) Section 4
A12	Where Staging is proposed, Stage 1 of the CSSI must be staged in accordance with the Staging Report .	Section 2 and 3
A13	Where staging is proposed, the terms of this approval that apply or are relevant to the Work or activities to be carried out in a specific stage must be complied with at the relevant time for that stage.	Section 2 and Appendix A
A14	Where changes are proposed to the staging of construction or operation, a revised Staging Report must be prepared, endorsed by the ER and submitted to the Planning Secretary for information no later than one month prior to the proposed change in the staging.	Section 5

MCoA	Requirement	Staging Report Section
A15	<p>Strategies, plans or programs required by this approval can be submitted on a progressive basis, with the agreement of the Planning Secretary.</p> <p>With the agreement of the Planning Secretary, the Proponent may prepare the updated strategy, plan or program without undertaking all the consultation required under the applicable condition in this approval.</p> <p>Nothing in this condition prevents the preparation of either separate or combined strategies, plans or programs required under this approval.</p> <p>Notes:</p> <ol style="list-style-type: none"> 1. While any strategy, plan or program may be submitted on a progressive basis, the Proponent must ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times; and 2. If the submission of any strategy, plan or program is to be undertaken in a progressive manner, then the relevant strategy, plan or program must clearly describe the specific stage to which strategy, plan or program applies, the relationship of this stage to future stages, and the trigger for updating the strategy, plan or program. 	<p>No staging or progressive submission of project plans are currently planned.</p>

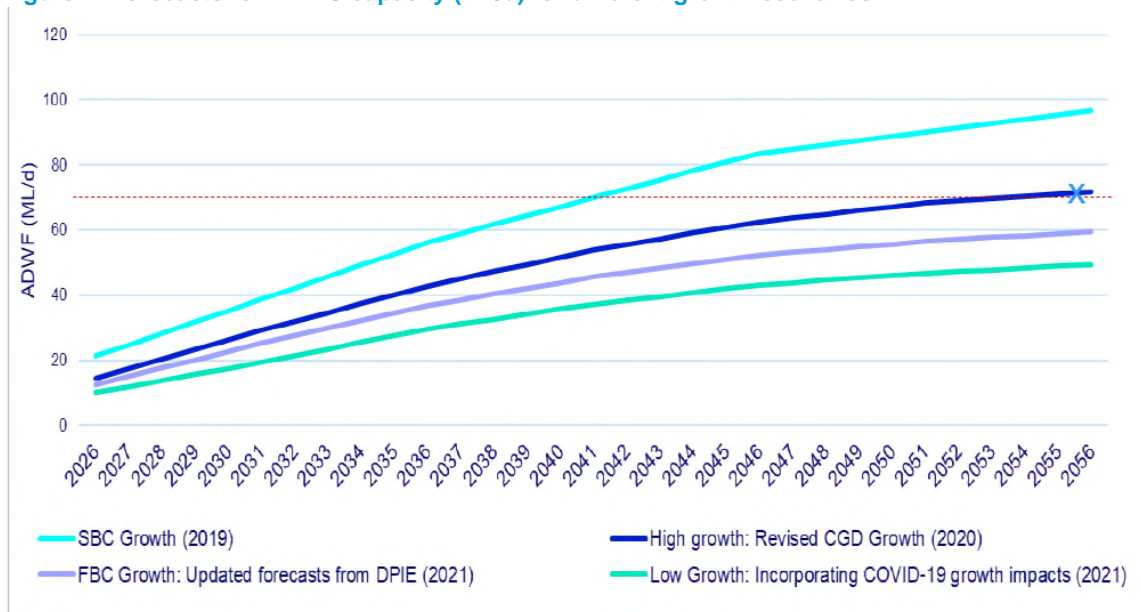
2 Project Staging

As detailed in the EIS, Sydney Water determines the capacity of its treatment plants using projected population and other demographic forecasts, converting these to equivalent expected flows. Sydney Water sizes plants to accommodate flows from the servicing area in normal and minor wet weather conditions, to minimise the risk of overflows and environment protection licence breaches.

Sydney Water also balances cost and environmental factors to stage capacity upgrades. As population growth can be unpredictable, Sydney Water sought flexibility in the EIS and planning approvals around the sizing and staging of the project to accommodate this adaptability.

The AWRC will be delivered in 2 stages. The timing of future upgrades at the AWRC will align with population growth forecasts and changes in the servicing area. Since the preparation of the EIS, new population forecasts provided by DPE and associated demand calculations, indicated that the forecast growth had fallen, as depicted in Figure 1 for various growth scenarios.

Figure 1: Forecasts for AWRC capacity (ML/d) for different growth scenarios



Note: SBC refers to Strategic Business Case, FBC refers to Final Business Case and CGC refer to Sydney Water City Growth and Development (CGD) data/ forecasts

The business case options assessment process determined that a 35 megalitre per day (ML/d) sized plant in Stage 1 would be considered a prudent size to respond to growth, with a further 35 ML/d upgrade, expected between 2033-2040, to meet the ultimate plant capacity. The ultimate required plant treatment capacity was defined by the expected 2056 demand. Figure 2 depicts an overhead indicative visualisation of the AWRC facility at ultimate capacity (on completion of Stage 2).

Figure 2: Indicative visualisation of the AWRC facility at ultimate capacity



Originally, the Reference Design assessed in the EIS envisaged an ultimate capacity of 100 ML/d based on the 2019 growth forecasts, however, the ultimate capacity of the plant based on updated forecasts was reduced to 70 ML/d. The pipelines for treated effluent and brine disposal would also be constructed to meet this revised full capacity volume in Stage 1.

Sydney Water sought flexibility on the size and timing of these future upgrades in the EIS to accommodate changes in population projections over time. Furthermore, staging process equipment installation delays the capital and operational costs associated with building and running a larger plant, ensuring prudent investments are made by not building substantially more infrastructure than is needed in the initial operational phase.

Staging also provides a pathway in which the plant can be adapted to changes in growth (higher or lower) and improvement in available technology over time.

The design of the project has also been continually optimised to maximise resource efficiency, and support Sydney Water's long-term resource recovery, energy self-sufficiency and sustainability ambitions for the precinct.

2.1 Stage 1

Construction of Stage 1 of the project will largely be constructed as one stage. This will include:

- An Advanced Water Recycling Centre (AWRC)

- Infrastructure from the AWRC to South Creek, to release excess treated water during significant wet weather events
- A treated water pipeline from the AWRC to the Nepean River at Wallacia Weir, to release high-quality treated water
- A brine pipeline from the AWRC connecting into Sydney Water's existing wastewater system to transport brine to the Malabar Wastewater Treatment Plant.

While the EIS and MCoA included scope to build the pipelines to their ultimate capacity of up to 100 ML/d and the AWRC to treat wastewater flows up to 50 ML/d in Stage 1 these will be built to 70 ML/d and 35 ML/d capacity respectively.

An additional Stage 1 stage to expand the plant from the current Stage 1 35 ML/d sized plant (as detailed above) to 50 ML/d is not currently envisaged.

Stage 1 will also be constructed to enable ease of expansion for Stage 2, provisioning space within the operational footprint to allow for the integration of the staged infrastructure, without the need to remove the established solar farm, as previously assessed in the EIS, or take the plant offline.

Exceptions to the Stage 1 scope include elements of the urban design and landscaping proposed in the green space outside the operational footprint and specialist treatment process options and ancillary works, including co-generation.

The delivery partner will complete a Masterplan for the green space and commence landscaping works focusing on the riparian corridor along Wianamatta-South Creek and within and immediately surrounding the Stage 1 operational footprint, with reference to the Urban Design and Landscaping Plan (UDLP) to be developed for the Stage 1 works.

The remaining landscaping and restoration works of the green space will either form another stage in Stage 1, or be delivered as part of Stage 2. The proposed staging of Stage 1 is further detailed, where applicable to condition references, in Appendix A. Figure 3 depicts the general arrangement of the AWRC site for Stage 1.

Figure 3: AWRC site Stage 1 general arrangement



The Stage 1 works will be delivered by one delivery partner, John Holland Trility (JHT). John Holland will act as the Principal Contractor and Trility will become the operation and maintenance contractor.

Sydney Water and the delivery partner are committed to complying with the requirements of all planning approvals that apply to the project. An allocation of responsibilities has been defined between Sydney Water and the delivery partner (included in Appendix A). While the majority of the detailed design, construction and operation will be undertaken by the delivery partner in Stage 1, some elements of the project will be managed by Sydney Water, particularly for those that apply to areas outside the operational footprint of the plant (eg landscaping of the green space) or where current project uncertainties remain.

2.1.1 AWRC Stage 1 Construction activities and indicative timeframes

The AWRC site is approximately 78 ha and is shown in Figure 3. The AWRC site is split into three areas, the operation footprint, the green space and the future circular economy precinct. The future circular economy precinct does not form part of Stage 1, or this approval. The operational area is about 40ha and will contain the wastewater and advanced treatment infrastructure and a range of ancillary infrastructure including inlet works, tanks and process chambers, advanced treatment buildings, interconnecting pipelines, digesters, pumping stations, odour treatment units, and biosolids treatment units. Refer to Section 2.1.2 for further details regarding the AWRC green space.

The operational area also includes a range of supporting infrastructure such as roads, carparking, an administration building, security fencing and visual screening. Other features ancillary to the main treatment process include chemical handling facilities and photovoltaic cells for solar energy production.

The overall duration of construction at the AWRC site is expected to be approximately 36 months, with construction expected to commence in June/July 2023. There are seven main phases of construction for the AWRC which are expected to overlap. Table 2 provides more details about the AWRC site construction phases, including indicative duration, timing and key activities (indicative only).

Table 2: AWRC Construction Phases, Timing, and Key Activities

Phase	Approx. Duration	Construction activities
Phase 1: Site establishment and mobilisation	Two months (expected to commence Q3 2023)	<ul style="list-style-type: none"> ○ Install environmental controls and delineate site ○ Ancillary construction works such as internal access roads and perimeter fencing ○ Traffic control ○ Plant and equipment delivery. ○ Establish site compound and construction access ○ Remove surface vegetation ○ Demolish existing buildings ○ Contamination management
Phase 2: Site earthworks	12 months	<ul style="list-style-type: none"> ○ Cut and fill to prepare site, including: <ul style="list-style-type: none"> ○ stockpiling topsoil, removing spoil and importing fill ○ Establish temporary site drainage and soil and water management controls ○ Excavate for detention basins, underground infrastructure etc ○ Excavation dewatering ○ Waste disposal, including any ongoing contamination management

Phase	Approx. Duration	Construction activities
Phase 3: Civil works	12 months	<ul style="list-style-type: none"> Construct roads and stormwater infrastructure Construct permanent internal roads and utility connections Construct permanent storage basins
Phase 4: AWRC structure construction	18 months	<ul style="list-style-type: none"> Construct buildings, treatment infrastructure, erect storage tanks and other treatment process units Install treatment equipment Build pipelines/ swales to South Creek
Phase 5: Mechanical and electrical installation	18 months	<ul style="list-style-type: none"> Utility connections Operations equipment installation and testing
Phase 6: Landscaping and rehabilitation	Three months	<ul style="list-style-type: none"> Native planting and landscaping works on AWRC operational area Remove environmental controls Develop green space Masterplan area (this is likely to continue into subsequent phases, past Stage 1 operation)
Phase 7: Commissioning (prior to Operation)	Six months (expected to be operational from Q1 2026)	<ul style="list-style-type: none"> Equipment testing and commissioning Operational testing Process proving Discharge commissioning wastewater

2.1.2 The AWRC Green Space

The green space of the site is approximately 38 ha and is within the 1% Annual Exceedance Probability (AEP) flood level. While the area within the floodplain is not useable for critical infrastructure, the opportunity still exists to provide landscape and urban design treatments that will provide a valuable community asset, embracing circular economy opportunities and provide access and information about the natural environment and heritage features of the site.

As part of the project, and considering both the operational and green space area, the works will adopt a landscape-led approach that enhances biodiversity, uses best practice water sensitive urban design, to support the ongoing development of a green spine through Western Sydney. As the urban design of the site progresses, it will also factor in the following key constraints:

- Bushfire protection.
- Flooding management.

- Airport safeguarding approaches, including efforts to manage wildlife attraction.

The delivery partner will develop the Masterplan for the site to support the ongoing evolution of the AWRC, acknowledging that the restoration of natural systems and implementation of a new landscape takes time. The plan will also provide a level of certainty and flexibility to match the planned capacity growth of the AWRC.

The Masterplan will support the urban design approach developed by Sydney Water for the AWRC site and will incorporate outcomes from key stakeholders and community engagement.

The delivery partner will deliver some of the landscaping, visual screening and architectural treatments during construction of Stage 1, under the UDLP to be developed for the Stage 1 works. This will include works within and immediately surrounding the operational footprint and along the South Creek riparian corridor within the green space. However, the remainder of the works within the green space will be completed in a later stage.

2.1.3 Treated Water and Brine Pipeline Construction and indicative timeframes

The project includes the construction of new pipelines to take treated water and the brine waste stream from the AWRC. All pipelines will be built to their full capacity (70 ML/d AWRC capacity) in Stage 1. Construction of pipelines is likely to occur over the entire construction phase, starting in approximately September 2023.

The Pipelines construction consists of:

- The treated water pipeline (refer to Figure 4) is planned to be approximately 16.7 km long and up to 1.2 m in diameter. The treated water pipeline will transfer treated water from the transfer pumping station at the AWRC, to the release point at Nepean River, upstream of Wallacia Weir from where it will then serve as an environmental flow.
- The brine pipeline (refer to Figure 5) will be about 24 km in length and about 0.6 m in diameter. The advanced treatment process at the AWRC will produce a brine waste product, which will be transferred from the AWRC to the existing Malabar wastewater system at Lansdowne.

Figure 4: Indicative overview of the project site (AWRC) and treated water pipeline

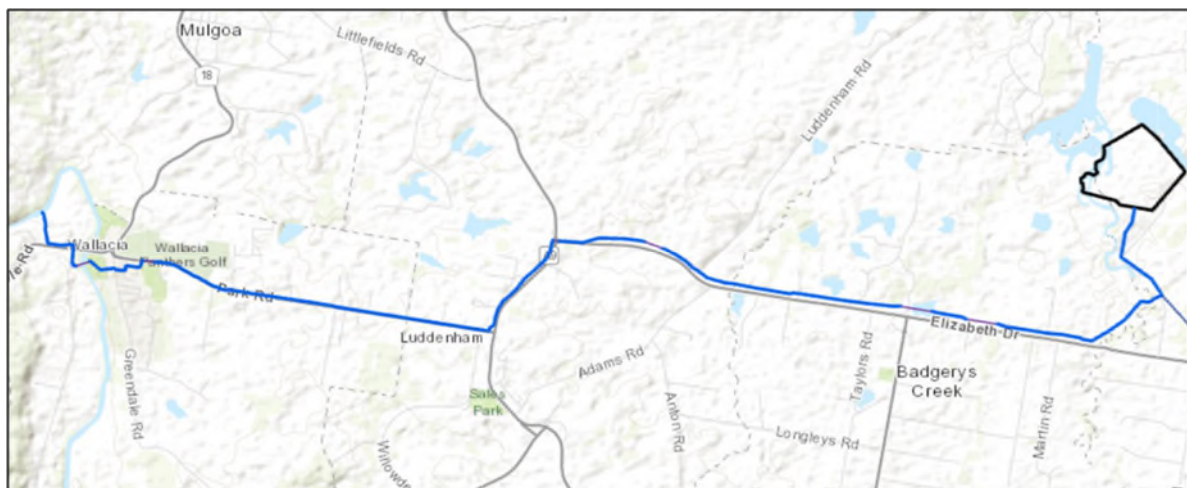
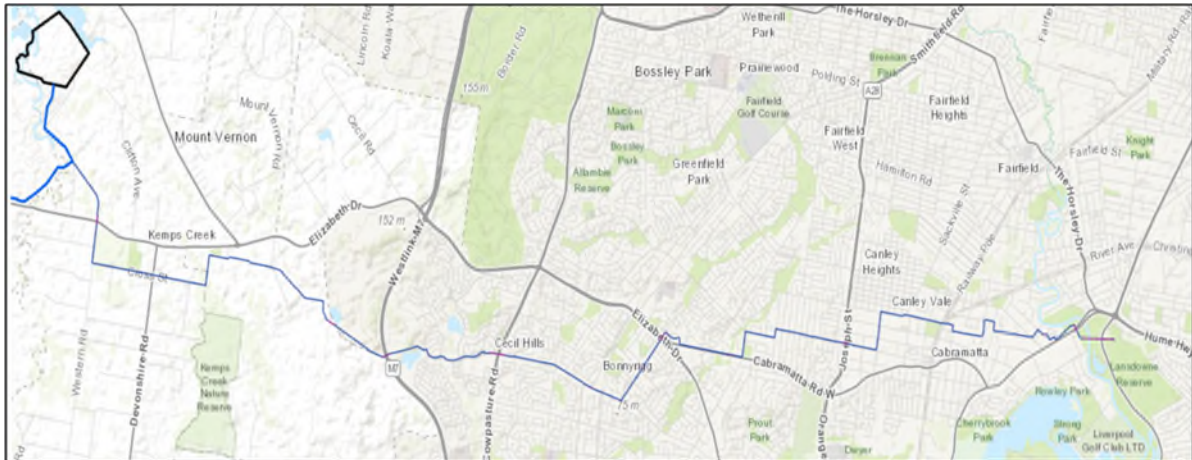


Figure 5: Indicative overview of the project site (AWRC) and brine pipeline



There are five main phases of construction for the construction of the pipelines, as detailed in Table 3, including indicative timing and key activities (indicative only). Construction of the pipelines will likely occur in several locations at one time, rather than moving progressively from one end to the other, and each location is likely to be in a different phase at different times.

Table 3: Pipeline Construction Phases and Key Activities

Phase	Key Activities
Phase 1: Site Establishment (expected to commence late Q3 2023)	<ul style="list-style-type: none"> Install environmental controls and delineate site Traffic control Ancillary construction works such as roads, site compounds and fencing Plant and equipment delivery Clearing
Phase 2: Excavation	<ul style="list-style-type: none"> Excavate trenches, drilling pits (trenchless construction) and install shoring Dewater excavation Waste disposal
Phase 3: Pipe installation	<ul style="list-style-type: none"> Pipe delivery and placement of the section of the pipes near the trench in a line (pipe stringing) Field bending of pipe Welding of each section of pipe together into one continuous length Pipe lowering into trench (trenched construction) Pulling pipe through bore (trenchless construction) Backfilling Inspection and test of pipes

Phase	Key Activities
Phase 4: Commissioning (prior to Operation, expected from Q1 2026)	<ul style="list-style-type: none"> ○ Pipe pressure testing and disinfection ○ Discharging commissioning wastewater
Phase 5: Landscaping and restoration	<ul style="list-style-type: none"> ○ Topsoil placement and progressive restoration ○ Progressive restoration of areas disturbed by construction, including roads and ancillary facility sites

2.2 Stage 2 (beyond the scope of this Staging Report)

Stage 2 would be subject to further environmental assessment, as detailed in the EIS and in accordance with Schedule 2 (Concept) of the MCoA. Condition C-A4 (from Schedule 2) notes in accordance with Section 5.20 of the EP&A Act, each subsequent stage of the CSSI Concept (excluding Stage 1) must be subject to future infrastructure application(s).

Expansion of the AWRC beyond 35 ML/ day to the ultimate capacity of 70 ML/d would involve new detailed designs to accommodate the future stage, and the preparation and submission of new construction environmental management plans and associated documents (which may also involve a different delivery partner).

Stage 2 will be integrated with Stage 1 in the operational area footprint. Generally, the area to the north of Stage 1 assets is identified for the Stage 2 upgrade to duplicate the Stage 1 capacity and for future opportunities, including recycled water treatment, storage and pumping facilities (if not pursued prior). Stage 2 will likely include primary sedimentation tanks or bioreactor/ membrane bioreactors, Stage 2 treatment plant and associated electrical works and services. Figure 6 depicts the general arrangement of the AWRC site for Stage 2, including indicative green space Masterplan.

Figure 6: AWRC site Stage 2 general arrangement



To minimise conflict between Stage 2 construction and the operational Stage 1 site, the construction of Stage 2 works within the Stage 1 area has been mainly limited to:

- The advanced water treatment plant (AWTP) break point chlorination, dechlorination, treated water and brine tanks
- The wet weather treatment system (if required)
- Pipework to/from the inlet works, treated water tanks, brine tanks and connection to the Stage 1 pipe system discharging to South Creek
- No bulk earthworks (i.e. cut/fill) are required for Stage 2 assets within the Stage 1 footprint. Stage 2 earthworks in the Stage 1 area will be limited to detailed localised excavation for pipework and foundations of new infrastructure.
- The layout and siting of the AWRC building is adaptable for future expansion to the southwest for visitor and educational facilities. The site plan allows for the extension of the staff carpark and covered external gathering spaces suitable for outdoor learning activities.

Stage 2 will only require works to expand the AWRC site (largely within the Stage 1 operational footprint), as the pipelines will be constructed in Stage 1 to support their ultimate capacity of up to 70 ML/day. This will minimise community and environmental impacts associated with the Stage 2 works, and reduce cumulative impacts associated with the project.

Although Stage 2 will require another EIS to address construction and operational impacts, Sydney Water included a brief assessment of the construction and operational impacts within the EIS at ultimate capacity to demonstrate acceptability of the long-term impacts of the project.

As previously noted, Sydney Water will remain flexible on the size and timing of these future upgrades to accommodate changes in population projections over time, however, it is expected that the plant will likely require expansion closer to 2033-2040.

3. Addressing Compliance through stages

The MCoA detail the compliance obligations that must be met during construction and operation of Stage 1 of the project. A Compliance Tracking Program (CTP) has been developed and enables compliance to be monitored and tracked for the MCoA relevant to the project works. This CTP has been adapted in Appendix A to address any applicable staging requirements and to note agreed responsibilities between Sydney Water and the delivery partner.

The management approach to the implementation of these obligations are further detailed in the Stage 1 Construction Environment Management Plan (CEMP) and associated sub-plans, including:

- Soil and Contamination CEMP Sub-Plan (SCCSP)
- Surface Water and Groundwater CEMP Sub-Plan (SWGCSP)
- Noise and Vibration CEMP Sub-Plan (NVCSP)
- Heritage CEMP Sub-Plan (HCSP)
- Biodiversity CEMP Sub-Plan (BCSP)
- Air Quality CEMP Sub-Plan (AQCSP)
- Flood Emergency Response CEMP Sub-Plan (FERCSP)
- Traffic and Transport CEMP Sub-Plan (TTCSP)
- Waste and Resource Use CEMP Sub-Plan (WRUCSP)

The CEMP and sub-plans are not subject to staged development and have been reviewed and endorsed by the independent ER and submitted to the DPE planning secretary for approval in accordance with MCoA C3. The CEMP details the environmental management systems and processes to be implemented throughout construction of the project. Compliance with the CEMP will achieve the environmental performance outcomes and compliance obligations established for the project.

In the event of a change to this stage's scope of works, the CEMP and subplans will be reviewed and updated as required based on the relevance of the applicable MCoA to the stage.

The CEMP, associated sub-plans and the CTP will be monitored to ensure the Stage 1 construction works are staged in accordance with this Staging Report.

4. Cumulative Impacts

Potential cumulative impacts associated with the project have been assessed in the EIS. Measures to reduce cumulative environmental impacts related to nearby infrastructure projects (such as the M12 Motorway project, Western Sydney Airport and Sydney Metro) are included in the CEMP and relevant sub-plans developed for Stage 1.

Cumulative impacts associated with the proposed staging approach are expected to be minimal.

Staged works required after the completion of the bulk of the Stage 1 construction works will be discrete and largely contained within the AWRC site, excluding traffic movements and deliveries. Due to the isolated nature of the AWRC, impacts to nearby sensitive receivers are not expected. However, these works will be managed either under the existing or revised CEMP and sub-plans or via additional plans developed for the staged work.

5. Document Management and Notifications

Prior to the commencement of Stage 1 construction works, this Staging Report will be provided to the ER for endorsement and submitted to the Planning Secretary for information no later than one month before the commencement of construction, in accordance with condition A10.

Prior to the commencement of each Stage relevant to Stage 1, a notification will be provided to the DPE Planning Secretary, via a letter submitted to the Planning Portal website in accordance with condition A36.

Updates will be made to this Staging Report as required, particularly following any changes to the delivery and staging strategy and any modifications to the planning approval that affect the proposed staging approach. Where the Staging Report is amended, it will be provided to the ER for endorsement and submitted to the Planning Secretary for information, in accordance with condition A14.

Appendix A – MCoA Responsibility and Staging Matrix

Ministers Conditions of Approval (signed 28 November 2022)

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	

Schedule 2 - CoA for Concept Proposal

C-A1	General	Approval is granted to the ‘Concept’ as described in Schedule 1 and in the Upper South Creek Advanced Water Recycling Centre Environmental Impact Statement, dated September 2021, as amended by the following: (a) Upper South Creek Advanced Water Recycling Centre Submissions Report, dated March 2022; (b) Upper South Creek Advanced Water Recycling Centre Amendment Report, dated March 2022; (c) Upper South Creek Advanced Water Recycling Centre Submissions Report – Project Amendments, dated April 2022; (d) Response to DPE RFI 1, regarding responses to advice received on the Response to Submissions Report (dated, 1 June 2022, 1 July 2022, and 11 July 2022); and (e) Response to DPE RFI 2, regarding additional information on Flood Impact Assessment (dated, 11 July 2022).	Future Stages			X	Y	N	N	n	
C-A2	General	The Proponent must carry out the CSSI Concept in accordance with the terms of this approval and the documents listed in Condition C-A1 of this schedule unless otherwise specified in, or required under, this approval.	Future Stages			X	Y	n	n	n	
C-A3	General	In the event of an inconsistency between: (a) the terms of this approval and any documents listed in Condition C-A1 of this schedule inclusive, the terms of this approval will prevail to the extent of the inconsistency; and (b) any document listed in Condition C-A1 of this schedule, the most recent document will prevail to the extent of the inconsistency. Note: For the purpose of this condition, there will be an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document.	Future Stages			X	Y	N	N	n	
C-A4	Future Applications	In accordance with section 5.20 of the EP&A Act, each subsequent stage of the CSSI Concept (excluding Stage 1) must be subject to future infrastructure application(s).	Future Stages			X	Y	N	N	n	
C-A5	Future Applications	The determination of future infrastructure application(s) is to be not inconsistent with the terms of this approval (SSI-8609189), as described in Schedule 1 and subject to the conditions in Schedule 2.	Future Stages			X	Y	N	N	n	
C-A6	Limits of Consent - Concept	This approval lapses five years after the date on which it is granted, unless Stage 1 Work identified in Schedule 1 has physically commenced on or before that date.	Future Stages	X		X	Y	N	N	n	
C-A7	Limits of Consent - Concept	The maximum capacity of the AWRC must not exceed an average dry weather flow (ADWF) of 100 megalitres per day (ML/day) under the CSSI Concept.	Future Stages			X	Y	N	N	n	
C-B1	Water Quality (Key issue - concept)	Prior to the discharge of any primary treated wet weather discharges from the AWRC, the Proponent must provide evidence to the Planning Secretary and the EPA that all reasonable and feasible measures have been implemented to minimise stormwater infiltration into the AWRC sewer catchment. This evidence must include confirmation of sewer planning, design and construction and quality assurance measures to ensure low infiltration into the AWRC sewer catchment.	Future Stages			X	Y	N	N	n	
C-B2	Water Quality (Key issue - concept)	The Proponent must prepare a Water Quality Impact Assessment (WQIA) of the AWRC’s current and projected future operations, in the event that any of the following circumstances occur (the WQIA triggers): (a) the AWRC has been operational for five years; or prior to this if (b) the volume of effluent receiving only primary treatment discharged from the AWRC during operation exceeds 40 ML over a 12 month period; or (c) monitoring undertaken under Condition E119 of Schedule 3 of this approval indicates that the AWRC releases during operation have resulted in exceedance of the ANZG (2018) toxicant DGVs for ammonia, ammonium, nitrate, total chlorine, aluminium, copper, zinc and manganese at a monitoring point located as near to 50 metres downstream of the South Creek discharge point as is feasible in more than two separate discharge events in a 12 month period; or (d) monitoring undertaken under Condition E119 of Schedule 3 of this approval indicates that the AWRC releases during operation have resulted in exceedance of the ANZG (2018) toxicant DGVs for ammonia, ammonium, nitrate, total chlorine, aluminium, copper, zinc and manganese at a monitoring point located as near to 50 metres downstream of the Nepean River discharge point as is feasible in more than six separate discharge events in a 12 month period. Notes: 1. As part of Condition E119 of Schedule 3 of this approval, the Proponent must investigate the feasibility of undertaking water quality monitoring at locations 50 metres downstream of the South Creek and Nepean River discharge points. 2. Conditions C-B2(c) and C-B2(d) are also intended to apply in scenarios where these toxicant DGVs are exceeded in background water quality and it can be demonstrated that AWRC releases have significantly increased the exceedance.	Future Stages	X	X	X	Y	Y	N	n	
C-B3	Water Quality (Key issue - concept)	The WQIA required under Condition C-B2 must be submitted to the EPA for information and Planning Secretary for approval within three months of the WQIA triggers occurring.	Future Stages	X	X	X	Y	Y	N	n	
C-B4	Water Quality (Key issue - concept)	The WQIA required under Condition C-B2 must include the following: (a) details of the volume, frequency and quality of effluent discharges from the AWRC from	Future Stages	X	X	X	Y	Y	N	n	

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
C-B5	Water Quality (Key issue - concept)	Prior to submission of the WQIA, the Proponent must consult with the EPA on relevant objectives, trigger values and/or criteria for water quality to be incorporated in the WQIA as required under Condition C-B4(c). Notes: 1. The EPA may utilise the information contained in the WQIA to include additional conditions in any EPL, including: (a) Justification from Sydney Water as to the proposed discharges from the AWRC; and/or (b) Performance upgrades to the AWRC. 2. Part E of Schedule 3 of this approval provides additional water quality assessment and monitoring conditions that are required to be met. 3. The intent is for the WQIA to be submitted to the Planning Secretary for approval once, and not each time one of the WQIA triggers is met. Any amendments to the approved WQIA must be provided to the Planning Secretary and the EPA for information.	Future Stages	X	X	X	Y	Y	N	n	
C-B6	Water Quality (Key issue - concept)	The projections outlined under Condition C-B4 must be informed by comparing the water quality models in the EIS with observed results and incorporating any subsequent improvements in modelling.	Future Stages	X	X	X	Y	Y	N	n	
C-B7	Water Quality (Key issue - concept)	Five years after the commencement of operation of Stage 1 of the CSSI, the Proponent must submit to the Planning Secretary and the EPA for information, an updated projection for when any potential future Stage 2 upgrade of the AWRC will be required to manage more than 50 ML/day ADWF, including: (a) the nature and degree of future impacts on receiving waters from the AWRC until any potential future Stage 2 upgrade occurs; and (b) whether the discharges from the future scenario in Condition C-B7(a) are protective of or contribute toward the achievement of the objectives, trigger values and/or criteria for water quality outlined in Condition C-B4(c).	Future Stages			X	Y	n	n	y	

Schedule 3 - CoA for Stage 1

A1	General	The Proponent must carry out Stage 1 of the CSSI in accordance with the terms of this approval and generally in accordance with the: (a) Upper South Creek Advanced Water Recycling Centre Environmental Impact Statement, dated September 2021; (b) Upper South Creek Advanced Water Recycling Centre Submissions Report, dated March 2022; (c) Upper South Creek Advanced Water Recycling Centre Amendment Report, dated March 2022; (d) Upper South Creek Advanced Water Recycling Centre Submissions Report – Project Amendments, dated April 2022; (e) Response to DPE RFI 1, regarding responses to advice received on the Response to Submissions Report (dated, 1 June 2022, 1 July 2022, and 11 July 2022); and (f) Response to DPE RFI 2, regarding additional information on Flood Impact Assessment (dated, 11 July 2022).	Construction/ Operation	X	X		Y	Y	Y	Y	
A2	General	Stage 1 of the CSSI must only be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in the documents listed in Condition A1 unless otherwise specified in, or required under, this approval.	Construction/ Operation	X			Y	Y	Y	Y	
A3	General	In the event of an inconsistency between: (a) the terms of this approval and any document listed in Condition A1 inclusive, the terms of this approval will prevail to the extent of the inconsistency; and (b) any document listed in Condition A1 inclusive, the most recent document will prevail to the extent of the inconsistency. Note: For the purpose of this condition, there will be an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document.	Construction/ Operation	X	X		Note	Note	Note	Note	
A4	General	The Proponent must comply with all written requirements or directions of the Planning Secretary, including in relation to: (a) the environmental performance of Stage 1 of the CSSI; (b) any document or correspondence in relation to Stage 1 of the CSSI; (c) any notification given to the Planning Secretary under the terms of this approval; (d) any audit of the construction or operation of Stage 1 of the CSSI; (e) the terms of this approval and compliance with the terms of this approval (including anything required to be done under this approval); (f) the carrying out of any additional monitoring or mitigation measures; and (g) in respect of ongoing monitoring and management obligations, compliance with an updated or revised version of a guideline, protocol, Australian Standard or policy required to be complied with under this approval.	Construction/ Operation	X			Y	Y	Y	Y	
A5	General	This approval lapses five years after the date on which it is granted, unless Work has physically commenced on or before that date.	Construction	X			Note	Note	Note	Note	
A6	General	The maximum capacity of the AWRC must not exceed an average dry weather flow (ADWF) of 50 megalitres per day (ML/day) under Stage 1.	Construction/ Operation	X	X		Note	Note	Note	Note	
A7	General	References in the terms of this approval to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Australian Standards or policies in the form they are in as at the date of this approval, unless otherwise approved by the Planning Secretary.	Construction/ Operation	X	X		Note	Note	Note	Note	
A8	Timing and Approvals	Any document that must be submitted or action taken within a timeframe specified in or under the terms of this approval may be submitted or undertaken within a later timeframe agreed in writing with the Planning Secretary. This condition does not apply to the written notification required in respect of an incident or a non-compliance.	Construction/ Operation	X	X		Note	Note	Note	Note	

Condition	Header/ Aspect	FINAL Condition	Phase	Staging			Responsibility				Staging Justification/ Other Comments
				Stage 1	Stage 1 (later stage)	Stage 2	SWC	AWRC contractor	Pipeline Contractor	O&M	
A9	Timing and Approvals	Where the terms of this approval require consultation to be undertaken, evidence of the consultation undertaken must be submitted to the Planning Secretary and ER (as relevant) with the corresponding documentation. The evidence must include: (a) documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval; (b) a log of the dates of engagement or attempted engagement with the identified party; (c) documentation of the follow-up with the identified party where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations; (d) outline of the issues raised by the identified party and how they have been addressed; and (e) a description of the outstanding issues raised by the identified party and the reasons why they have not been addressed.	Construction/ Operation	X			Y	Y	Y	Y	
A10	Staging	Stage 1 of the CSSI may be constructed and operated in stages (including but not limited to temporal, location or activity based staging). Where staged construction and/or operation is proposed, a Staging Report (for either or both construction and operation as the case may be) must be prepared. The Staging Report must be endorsed by the ER and then submitted to the Planning Secretary for information no later than one month before the commencement of construction of the first of the proposed stages of construction (or if only staged operation is proposed, one month before the commencement of operation of the first of the proposed stages of operation). Note: Unless otherwise specified in this approval, early works are a stage of construction.	Construction/ Operation	X	X		Y	Y	Y	N	Flexibility sought for some elements associated with Stage 1 to be constructed after commencement of Stage 1 operation.
A11	Staging	The Staging Report must: (a) if staged construction is proposed, set out how the construction of the whole of Stage 1 of the CSSI will be staged, including details of Work and activities to be carried out in each stage and the general timing of when construction of each stage will commence and finish; (b) if staged operation is proposed, set out how the operation of the whole of Stage 1 of the CSSI will be staged, including details of activities to be carried out in each stage and the general timing of when operation of each stage will commence and finish (if relevant); (c) specify how compliance with conditions will be achieved across and between each of the stages of Stage 1 of the CSSI; and (d) set out mechanisms for managing any cumulative impacts arising from the proposed staging. Note: A Staging Report may reflect the staged construction and operation of Stage 1 of the project through geographical activities, temporal activities or activity-based contracting and staging.	Construction/ Operation	X	X		Note	Note	Note	Note	
A12	Staging	Where staging is proposed, Stage 1 of the CSSI must be staged in accordance with the Staging Report.	Construction/ Operation	X	X		Y	Y	Y	Y	
A13	Staging	Where staging is proposed, the terms of this approval that apply or are relevant to the Work or activities to be carried out in a specific stage must be complied with at the relevant time for that stage.	Construction/ Operation	X	X		Y	Y	Y	Y	
A14	Staging	Where changes are proposed to the staging of construction or operation, a revised Staging Report must be prepared, endorsed by the ER and submitted to the Planning Secretary for information no later than one month prior to the proposed change in the staging.	Construction/ Operation	X	X		Y	Y	Y	Y	
A15	Staging	Strategies, plans or programs required by this approval can be submitted on a progressive basis, with the agreement of the Planning Secretary. With the agreement of the Planning Secretary, the Proponent may prepare the updated strategy, plan or program without undertaking all the consultation required under the applicable condition in this approval. Nothing in this condition prevents the preparation of either separate or combined strategies, plans or programs required under this approval. Notes: 1. While any strategy, plan or program may be submitted on a progressive basis, the Proponent must ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times; and 2. If the submission of any strategy, plan or program is to be undertaken in a progressive manner, then the relevant strategy, plan or program must clearly describe the specific stage to which strategy, plan or program applies, the relationship of this stage to future stages, and the trigger for updating the strategy, plan or program.	Construction/ Operation	X	X		Note	Note	Note	Note	
A16	Ancillary Facilities	Construction ancillary facilities (excluding minor construction ancillary facilities established under Condition A19) that are not identified by description and location in the documents listed in Condition A1 can only be established and used in each case if: (a) they are located within or immediately adjacent to the construction boundary; and (b) they are not located next to sensitive land use(s) (including where an access road is between the facility and the land use), unless the landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location; and (c) they have no impacts on heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the terms of this approval; and (d) the establishment and use of the facility can be carried out and managed within the outcomes set out in the terms of this approval, including in relation to environmental, social and economic impacts.	Construction	X			N	Y	Y	N	

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
A17	Site Establishment Work	<p>Before the establishment of a construction ancillary facility that is required prior to the approval of a CEMP (excluding minor construction ancillary facilities determined by the ER to have minimal environmental impact and those established under Condition A19), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facility(ies). The Site Establishment Management Plan must be prepared in consultation with the relevant council and government agencies. The Plan must be endorsed by the ER and then submitted to the Planning Secretary for approval one month before the establishment of any construction ancillary facility(ies). The Site Establishment Management Plan must detail the management of the construction ancillary facility(ies) and include:</p> <p>(a) a description of activities to be undertaken during establishment of the construction ancillary facility(ies) (including scheduling and duration of Work to be undertaken at the site); (b) figures illustrating the proposed operational site layout and the location of the closest sensitive land use(s); (c) a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken prior to the commencement of site establishment work; (d) details of how the site establishment activities described in subsection (a) of this condition will be carried out to: (i) meet the performance outcomes stated in the documents listed in Condition A1, and (ii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and (e) a program for monitoring the performance outcomes, including a program for construction noise monitoring during site establishment works.</p> <p>Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility.</p> <p>Note: This plan is only needed before a CEMP is approved. Once a CEMP is approved a Site Establishment Management Plan(s) is not required and any ancillary facilities not approved under a Site Establishment Management Plan must be included in the CEMP.</p>	Construction	X			N	Y	Y	N	
A18	Site Establishment Work	The use of a construction ancillary facility must not commence until the CEMP required by Condition C1, relevant CEMP Sub-plans required by Condition C4 and relevant Construction Monitoring Programs required by Condition C13 have been approved by the Planning Secretary.	Construction	X			N	Y	Y	N	
A19	Site Establishment Work	<p>Minor construction ancillary facilities can be established and used where they have been assessed in the documents listed in Condition A1 or satisfy the following criteria:</p> <p>(a) are located within or immediately adjacent to the construction boundary; and (b) have been assessed by the ER to have - (i) minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009) (ICNG), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and (ii) minimal environmental impact with respect to waste management and flooding, and (iii) no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.</p>	Construction	X			N	Y	Y	N	
A20	Site Establishment Work	<p>Boundary screening must be erected between construction ancillary facilities (excluding minor construction ancillary facilities) and adjacent to sensitive land use(s) for the duration of the time that the construction ancillary facility is in use, unless otherwise agreed with the owner and occupier of the adjacent sensitive land use(s).</p> <p>Boundary screening must minimise visual impacts on adjacent sensitive land use(s).</p>	Construction	X			N	Y	Y	N	
A21	Independent Appointments	All Independent Appointments required by the terms of this approval must have regard to Seeking approval from the Department for the appointment of independent experts (DPIE, 2020). All Independent Appointments must hold current membership of a relevant professional body, unless otherwise agreed by the Planning Secretary.	Construction/ Operation	X			Y	N	N	N	
A22	Independent Appointments	<p>The Planning Secretary may at any time commission an audit of how an Independent Appointment has exercised their functions. The Proponent must:</p> <p>(a) facilitate and assist the Planning Secretary in any such audit; and (b) make it a term of their engagement of an Independent Appointment that the Independent Appointment facilitate and assist the Planning Secretary in any such audit.</p>	Construction/ Operation	X	X		Y	N	N	N	
A23	Independent Appointments	<p>The Planning Secretary may withdraw its approval of an Independent Appointment should they consider the Independent Appointment has not exercised their functions in accordance with this approval.</p> <p>Note: Conditions A22 and A23 apply to all Independent Appointments including the ER and AA.</p>	Construction/ Operation	X	X		Note	Note	Note	Note	
A24	Environment Representative	Work must not commence until an Environmental Representative (ER) has been nominated by the Proponent and approved by the Planning Secretary.	Construction	X			Y	Note	Note	Note	
A25	Environment Representative	The Planning Secretary's approval of an ER must be sought no later than one month before the commencement of Work.	Construction	X			Y	Note	Note	N	
A26	Environment Representative	The proposed ER must meet the requirements of the Environmental Representative Protocol (Department of Planning and Environment, October 2018) and must be a suitably qualified and experienced person(s) who was not involved in the preparation of the documents listed in Condition A1, and is independent from the design and construction personnel for the CSSI and those involved in the delivery of it.	Construction/ Operation	X			Y	N	N	N	
A27	Environment Representative	More than one ER may be engaged for Stage 1 of the CSSI, in which case the functions to be exercised by an ER under the terms of this approval may be carried out by any ER that is approved by the Planning Secretary for the purposes of Stage 1 of the CSSI.	Construction/ Operation	X			Note	N	N	N	

Condition	Header/ Aspect	FINAL Condition	Phase		Staging		Responsibility				Staging Justification/ Other Comments
			Stage 1	Stage 1 (later stage)	Stage 2	SWC	AWRC contractor	Pipeline Contractor	O&M		
A28	Environment Representative	<p>For the duration of the Work until the completion of construction, or as agreed with the Planning Secretary, the approved ER must:</p> <p>(a) receive and respond to communication from the Planning Secretary in relation to the environmental performance of Stage 1 of the CSSI;</p> <p>(b) consider and inform the Planning Secretary on matters specified in the terms of this approval;</p> <p>(c) consider and recommend to the Proponent any improvements that may be made to Work practices to avoid or minimise adverse impact to the environment and to the community;</p> <p>(d) review documents identified in Conditions A10, A17, C1, C4 and C13 and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this approval and if so:</p> <p>(i) make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or</p> <p>(ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary / Department for information or are not required to be submitted to the Planning Secretary/Department);</p> <p>Note: The written statement must be made via the Major Projects Portal.</p> <p>(e) regularly monitor the implementation of the documents listed in Conditions A10, A17, C1, C4 and C13 to ensure implementation is being carried out in accordance with the document and the terms of this approval;</p> <p>(f) as may be requested by the Planning Secretary, help plan or attend audits of the development commissioned by the Department including scoping audits, programming audits, briefings and site visits, but not independent environmental audits required under Condition A37 of this approval;</p> <p>(g) as may be requested by the Planning Secretary, assist in the resolution of community complaints;</p> <p>(h) review the appropriateness of any activities reliant on the definition of Low Impact Work;</p> <p>(i) consider or assess the impacts of minor construction ancillary facilities comprising lunch sheds, office sheds and portable toilet facilities as required by Condition A19 of this approval;</p> <p>(j) consider any minor amendments to be made to the Site Establishment Management Plan, Community Communications Strategy, CEMP, CEMP Sub-plans and monitoring programs without increasing impacts to nearby sensitive land uses or that comprise updating or are of an administrative nature, and are consistent with the terms of this approval and the Site Establishment Management Plan, Community Communications Strategy, CEMP, CEMP Sub-plans and monitoring programs approved by the Planning Secretary and, if satisfied such amendment is necessary, approve the amendment. This does not include any modifications to the terms of this approval; and</p>	Construction	X	X		Note	N	N	N	
A29	Environment Representative	<p>The Proponent must provide the ER with documentation requested in order for the ER to perform their functions specified in Condition A28 (including preparation of the ER monthly report), as well as:</p> <p>(a)the complaints register (to be provided on a weekly basis where complaints have been received or as requested); and</p> <p>(b)a copy of any assessment carried out by the Proponent of whether proposed Work is consistent with the approval (which must be provided to the ER before the commencement of the subject Work).</p> <p>Note: Personal details of the complainant are not to be provided to the ER unless otherwise agreed to or requested by the complainant.</p>	Construction/ Operation	X	X		Y	Y	Y	N	
A30	Acoustic Advisor	A suitably qualified and experienced Acoustics Advisor(s) (AA) in noise and vibration management, who is independent of the design and construction personnel, must be nominated by the Proponent and engaged for the duration of Work and for no less than six months following completion of construction of Stage 1 of the CSSI.	Construction/ Operation	X	X		Y	N	N	N	
A31	Acoustic Advisor	Work must not commence until an AA has been approved by the Planning Secretary.	Construction	X			Y	Note	Note	N	
A32	Acoustic Advisor	<p>The Proponent must cooperate with the AA by:</p> <p>(a) providing access to noise and vibration monitoring activities as they take place;</p> <p>(b) providing for review of noise and vibration plans, assessments, monitoring reports, data and analyses undertaken; and</p> <p>(c) considering any recommendations to improve practices and demonstrating, to the satisfaction of the AA, why any recommendation is not adopted.</p>	Construction/ Operation	X	X		Y	Y	Y	N	
A33	Acoustic Advisor	The Proponent may nominate additional suitably qualified and experienced persons to assist the lead AA for the Planning Secretary’s approval.	Construction/ Operation	X	X		Note	N	N	N	
A34	Acoustic Advisor	<p>The approved AA must:</p> <p>(a) receive and respond to communication from the Planning Secretary in relation to the performance of Stage 1 of the CSSI in relation to noise and vibration;</p> <p>(b) consider and inform the Planning Secretary on matters specified in the terms of this approval relating to noise and vibration;</p> <p>(c) consider and recommend to the Proponent, improvements that may be made to avoid or minimise adverse noise and vibration impacts;</p> <p>(d) review proposed night-time Works to determine if sleep disturbance would occur and recommend measures to avoid sleep disturbance or appropriate additional alternative mitigation measures;</p> <p>(e) review noise and vibration documents required to be prepared under the terms of this approval, and should they be consistent with the terms of this approval, endorse them before submission to the Planning Secretary (if required to be submitted to the Planning Secretary) or before implementation (if not required to be submitted to the Planning Secretary);</p> <p>(f) regularly monitor the implementation of all noise and vibration documents required to be prepared under the terms of this approval to ensure implementation is in accordance with what is stated in the document(s) and the terms of this approval;</p> <p>(g) notify the Planning Secretary of noise and vibration incidents in accordance with Conditions A43 and A45 of this approval;</p> <p>(h) in conjunction with the ER, the AA must:</p> <p>(i) as may be requested by the Planning Secretary, help plan, attend or undertake audits of noise and vibration management of Stage 1 of the CSSI including briefings, and site visits,</p> <p>(ii) in the event that conflict arises between the Proponent and the community in relation to the noise and vibration performance of Stage 1 of the CSSI, follow the procedure in the Community Communication Strategy approved under Condition B2 to attempt to resolve the conflict, and if it cannot be resolved, notify the Planning Secretary,</p> <p>(iii) consider relevant minor amendments made to the Site Establishment Management Plan, CEMP, relevant sub-plans and noise and vibration monitoring programs that require updating or are of an administrative nature, and are consistent with the terms of this approval and the management plans and monitoring programs approved by the Planning Secretary and, if satisfied such amendment is necessary, endorse the amendment, (this does not include any modifications to the terms of this approval),</p> <p>(iv) review the noise impacts of minor construction ancillary facilities, and</p> <p>(v) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, a Monthly Noise and Vibration Report detailing the AA’s actions and decisions on matters for which the AA was responsible in the preceding month. The frequency of this report can be changed if agreed by the Planning Secretary. The Monthly Noise and Vibration Report must be submitted within seven days following the end of each month for the duration of the AA’s engagement for Stage 1 of the CSSI, or as otherwise agreed by the Planning Secretary.</p>	Construction/ Operation	X	X		Note	N	N	N	
A35	Notification of Commencement	The Department must be notified in writing of the dates of commencement of Works, construction and operation at least one month before those dates.	Construction/ Operation	X			Y	Note	Note	Note	

Condition	Header/ Aspect	FINAL Condition	Phase	Staging			Responsibility				Staging Justification/ Other Comments
				Stage 1	Stage 1 (later stage)	Stage 2	SWC	AWRC contractor	Pipeline Contractor	O&M	
A36	Notification of Commencement	If the construction or operation of Stage 1 of the CSSI is to be staged, the Department must be notified in writing at least one month before the commencement of each stage, of the date of the commencement of that stage.	Construction/ Operation	X	X		Y	Note	Note	Note	
A37	Auditing	Independent Audits of Stage 1 of the CSSI must be conducted and carried out in accordance with the Independent Audit Post Approval Requirements (DPIE, 2020).	Construction/ Operation	X	X		Y	Note	Note	Note	
A38	Auditing	Proposed independent auditors must be agreed to in writing by the Planning Secretary before the commencement of an Independent Audit. This condition does not apply to the engagement of auditors required under Condition E105.	Construction	X	X		Y	N	N	N	
A39	Auditing	The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in the Independent Audit Post Approval Requirements (DPIE, 2020), upon giving at least four weeks’ notice (or timing as stipulated by the Planning Secretary) to the Proponent of the date upon which the audit must be commenced.	Construction/ Operation	X	X		Y	Note	Note	Note	
A40	Auditing	In accordance with the specific requirements in the Independent Audit Post Approval Requirements (DPIE, 2020), the Proponent must: (a) review and respond to each Independent Audit Report prepared under Condition A37 or Condition A39; (b) submit the response to the Planning Secretary; and (c) make each Independent Audit Report and response to it publicly available two months after submission to the Planning Secretary, or as otherwise agreed by the Planning Secretary.	Construction/ Operation	X	X		Y	y	y	y	
A41	Auditing	Independent Audit Reports and the Proponent’s response to audit findings must be submitted to the Planning Secretary within two months of undertaking the independent audit site inspection as outlined in the Independent Audit Post Approval Requirements (DPIE, 2020).	Construction/ Operation	X	X		Y	y	y	y	
A42	Auditing	Notwithstanding the requirements of the Independent Audit Post Approval Requirements (DPIE, 2020), the Planning Secretary may approve a request for ongoing independent operational audits to be ceased, where it has been demonstrated to the Planning Secretary’s satisfaction that independent operational audits have demonstrated operational compliance.	Construction/ Operation	X	X		Y	N	N	Note	
A43	Incident and non-compliance notification and reporting	The Planning Secretary must be notified via the Major Projects Website as soon as possible and no later than 12 hours after the Proponent becomes aware of an incident. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one) and set out the location and nature of the incident.	Construction/ Operation	X	X		Y	y	y	y	
A44	Incident and non-compliance notification and reporting	Subsequent notification must be given and reports submitted in accordance with the requirements set out in Appendix A of this approval.	Construction/ Operation	X	X		Y	y	y	y	
A45	Incident and non-compliance notification and reporting	The Planning Secretary must be notified via the Major Projects Website within seven days after the Proponent becomes aware of any non-compliance. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one), identify the condition/s against which the CSSI is non-compliant, the nature of the non-compliance; the reason for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.	Construction/ Operation	X	X		Y	y	y	y	
A46	Incident and non-compliance notification and reporting	A non-compliance which has been notified as an incident under Condition A43 does not need to be notified as a non-compliance.	Construction/ Operation	X	X		Note	Note	Note	Note	
A47	Identification of workforce and compounds	Heavy vehicles used for spoil haulage must be clearly marked on the sides and rear with the project name and CSSI application number to enable immediate identification by a person viewing the heavy vehicle. No more than one set of project markings can be displayed on a heavy vehicle at any point of time.	Construction	X			N	Y	Y	N	
A48	Identification of workforce and compounds	The CSSI name; application number; telephone number, postal address and email address required under Condition B8 of this approval must be made available on site boundary fencing / hoarding at each ancillary facility before the commencement of construction. This information must also be provided on the website required under Condition B12 of this approval.	Construction	X			N	Y	Y	N	
B1	Community information, consultation and involvement	A Community Communication Strategy must be prepared to provide mechanisms to facilitate communication about construction and operation of Stage 1 of the CSSI with: (a) the community (including adjoining affected landowners and businesses, and others directly impacted by Stage 1 of the CSSI); (b) Aboriginal people, Registered Aboriginal Parties (RAPs) and LALCs; and (c) the relevant councils and relevant government agencies.	Construction/ Operation	X	X		y	Y	Y	Y	
B2	Community information, consultation and involvement	The Community Communication Strategy must: (a) identify people, organisations, councils and agencies to be consulted during the design and Work phases of Stage 1 of the CSSI; (b) identify details of the community and its demographics; (c) identify timing of consultation; (d) set out procedures and mechanisms for the regular distribution of accessible information including to RAPs, LOTE, Culturally and Linguistically Diverse, and vulnerable communities about or relevant to Stage 1 of the CSSI; (e) identify opportunities for education within the community about construction sites; (f) detail the measures for advising the community in advance of upcoming construction including upcoming out-of-hours work as required by Condition E43; (g) detail measures for consulting with Fairfield City Council about disruption to Cabravale Leisure Centre car park and potential investigation of an alternate brine pipeline alignment at this location; (h) provide for the formation of issue or location-based community forums that focus on key environmental management issues of concern to the relevant community(ies) for Stage 1 of the CSSI; (i) detail the role and responsibilities of the Public Liaison Officer(s) engaged under Condition B6; (j) set out procedures and mechanisms: (i) through which the community can discuss or provide feedback to the Proponent; (ii) through which the Proponent will respond to enquiries or feedback from the community; and (iii) to resolve any issues and mediate any disputes that may arise in relation to the environmental management and delivery of Stage 1 of the CSSI, including disputes regarding rectification or compensation; (k) address who will engage with the community, relevant councils and agencies.	Construction	X	X		N	Y	Y	Y	
B3	Community information, consultation and involvement	The Community Communication Strategy must be submitted to the Planning Secretary and be approved prior to the commencement of any Work.	Construction	X			Y	y	y	y	
B4	Community information, consultation and involvement	Work for the purposes of Stage 1 of the CSSI must not commence until the Community Communication Strategy has been approved by the Planning Secretary.	Construction	X			N	Y	Y	N	
B5	Community information, consultation and involvement	The Community Communication Strategy as approved by the Planning Secretary, including any minor amendments approved by the ER, must be implemented for the duration of the Work and for 12 months following the completion of construction.	Construction/ Operation	X	X		N	Y	Y	n	

Condition	Header/ Aspect	FINAL Condition	Phase	Staging			Responsibility				Staging Justification/ Other Comments
				Stage 1	Stage 1 (later stage)	Stage 2	SWC	AWRC contractor	Pipeline Contractor	O&M	
B6	Community information, consultation and involvement	A Public Liaison Officer must be appointed to assist the public with questions and complaints they may have at any time during Work. The Public Liaison Officer must be available at all times that Work is occurring.	Construction/ Operation	X	X		N	Y	Y	N	
B7	Complaints Management System	A Complaints Management System must be prepared and implemented before the commencement of any Work and maintained for the duration of construction and for a minimum for 12 months following completion of construction of Stage 1 of the CSSI. The Complaints Management System must be consistent with Sydney Water’s Complaint Policy (Document number: 735107, version 4, dated 27 October 2021). Note: In the situation where there are different entities constructing and operating Stage 1 of the CSSI, continuity of access to the Complaints Management System must be maintained.	Construction/ Operation	X	X		N	Y	Y	Y	
B8	Complaints Management System	The following information must be available to facilitate community enquiries and manage complaints one month before the commencement of Work and for 12 months following the completion of construction: (a) a 24- hour toll free telephone number for the registration of complaints and enquiries about Stage 1 of the CSSI; (b) a postal address to which written complaints and enquires may be sent; (c) an email address to which electronic complaints and enquiries may be transmitted; and (d) a mediation system for complaints unable to be resolved, consistent with Sydney Water’s Complaint Policy (Document number: 735107, version 4, dated 27 October 2021 or its subsequent versions), and inclusive of escalation of a complaint to an independent dispute resolution body. This information must be accessible to all in the community regardless of age, ethnicity, disability or literacy level.	Construction/ Operation	X	X		N	Y	Y	Y	
B9	Complaints Management System	A Complaints Register must be maintained recording information on all complaints received about Stage 1 of the CSSI during the carrying out of any Work and for a minimum of 12 months following the completion of construction. The Complaints Register must record the: (a) number of complaints received; (b) the date and time of the complaint; (c) the method by which the complaint was made; (d) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; (e) nature of the complaint; (f) means by which the complaint was addressed and whether resolution was reached, with or without mediation; and (g) if no action was taken, the reason(s) why no action was taken.	Construction/ Operation	X	X		N	Y	Y	Y	
B10	Complaints Management System	Complainants must be advised of the following information before, or as soon as practicable after, providing personal information: (a) the Complaints Register may be forwarded to government agencies, including the Department (Department of Planning and Environment, 4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150), to allow them to undertake their regulatory duties; (b) by providing personal information, the complainant authorises the Proponent to provide that information to government agencies; (c) the supply of personal information by the complainant is voluntary; and (d) the complainant has the right to contact government agencies to access personal information held about them and to correct or amend that information (Collection Statement). The Collection Statement must be included on the Proponent or development website to make prospective complainants aware of their rights under the Privacy and Personal Information Protection Act 1998 (NSW). For any complaints made in person, the complainant must be made aware of the Collection Statement.	Construction/ Operation	X	X		N	Y	Y	Y	
B11	Complaints Management System	The Complaints Register must be provided to the Planning Secretary upon request, within the timeframe stated in the request.	Construction/ Operation	X	X		N	Y	Y	Y	
B12	Provision of Electronic Information	A website or webpage providing information in relation to Stage 1 of the CSSI must be established before commencement of Work and be maintained for the duration of construction, and for a minimum of 24 months following the completion of construction of Stage 1 of the CSSI. The following up-to-date information (excluding confidential, private, commercial information or any other information that the Planning Secretary has approved to be excluded) must be published before the relevant Work commences and maintained on the website or dedicated pages including: (a) information on the current implementation status of Stage 1 of the CSSI; (b) a copy of the documents listed in Condition A1, and any documentation relating to any modifications made to the CSSI or the terms of this approval; (c) a copy of this approval in its original form, a current consolidated copy of this approval (that is, including any approved modifications to its terms), and copies of any approval granted by the Minister to a modification of the terms of this approval; (d) a copy of each statutory approval, licence or permit required and obtained in relation to Stage 1 of the CSSI; (e) a copy of the current version of each document required under the terms of this approval; and (f) a copy of the audit reports required under this approval. Where the information / document relates to a particular Work or is required to be implemented, it must be published before the commencement of the relevant Work to which it relates or before its implementation. All information required in this condition must be provided on the Proponent’s website, ordered in a logical sequence and which is easy to navigate. Note: The intention of this condition is to increase transparency and for information/documents required as part of the approval to be provided proactively and publicly in an easily accessible manner. Where information is excepted by this condition, it is intended that these documents are provided in their redacted form.	Construction/ Operation	X	X		Y	Y	Y	Y	

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
C1	CEMP	A Construction Environmental Management Plan (CEMP) must be prepared having regard to the Environmental Management Plan Guideline for Infrastructure Projects (Department of Planning, Industry and Environment, 2020). The CEMP must detail how the performance outcomes, commitments and mitigation measures specified in the documents list in Condition A1 will be implemented and achieved during construction.	Construction	X	X		N	Y	Y	N/A	
C2	CEMP	<p>The CEMP must provide:</p> <p>(a) a description of activities to be undertaken during construction (including the scheduling of construction);</p> <p>(b) details of environmental and social policies, guidelines and principles to be followed in the construction of Stage 1 of the CSSI;</p> <p>(c) a program for ongoing analysis of the key environmental and social impact risks arising from the activities described in subsection (a) of this condition, including an initial risk assessment undertaken before the commencement of construction of Stage 1 of the CSSI;</p> <p>(d) details of how the activities described in subsection (a) of this condition will be carried out to:</p> <p>(i) meet the performance outcomes stated in the documents listed in Condition A1 and as required by this approval; and</p> <p>(ii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition;</p> <p>(e) an inspection program detailing the activities to be inspected and frequency of inspections;</p> <p>(f) a protocol for managing and reporting any:</p> <p>(i) incidents; and</p> <p>(ii) non-compliances with this approval or statutory requirements;</p> <p>(g) procedures for rectifying any non-compliance with this approval identified during compliance auditing, incident management or at any time during construction;</p> <p>(h) a list of all the CEMP Sub-plans required in respect of construction, as set out in Condition C4. Where staged construction of Stage 1 of the CSSI is proposed, the CEMP must also identify which CEMP Sub-plan applies to each of the proposed stages of construction;</p> <p>(i) an organisational chart including description of the roles and environmental responsibilities for relevant employees and any independent appointments;</p> <p>(j) for training and induction for employees, including contractors and sub-contractors, in relation to environmental, social and compliance obligations under the terms of this approval;</p> <p>(k) for periodic review and update of the CEMP and all associated plans and programs; and</p> <p>(l) measures to manage bushfire hazard and risk during construction.</p> <p>Note: CEMP(s) may reflect the construction of the project through geographical activities, temporal activities or activity based staging.</p>	Construction	X	X		N	Y	Y	N/A	
C3	CEMP	The CEMP (and relevant CEMP sub-plans) must be endorsed by the ER and then submitted to the Planning Secretary for approval no later than one month before the commencement of construction, or where construction is staged, no later than one month before the commencement of each stage.	Construction	X	X		N	Y	Y	N/A	
C4	CEMP	The following CEMP Sub-plans must be prepared in consultation with the relevant government agencies identified for each CEMP Sub-plan. Details of all information requested by an agency during consultation must be provided to the Planning Secretary as part of any submission of the relevant CEMP Sub-plan, including copies of all correspondence from those agencies as required by Condition A9.	Construction	X			N	Y	Y	N/A	
C5	CEMP	<p>The CEMP Sub-plans must state how:</p> <p>(a) the environmental performance outcomes identified in the documents listed in Condition A1 will be achieved;</p> <p>(b) the mitigation measures identified in the documents listed in Condition A1 will be implemented;</p> <p>(c) the relevant terms of this approval will be complied with; and</p> <p>(d) issues requiring management during construction (including cumulative impacts), as identified through ongoing environmental risk analysis, will be managed through SMART (Specific, Measurable, Achievable, Realistic and Timely) principles.</p>	Construction	X			N	Y	Y	N/A	
C6	CEMP	<p>The Surface Water and Groundwater CEMP Sub-Plan must be prepared by a suitably qualified expert and include, but not limited to:</p> <p>(a) measures to achieve compliance with the NSW Government Wianamatta South Creek waterway health objectives and construction phase stormwater management targets, in accordance with the Wianamatta MUSIC modelling toolkit and Technical Guidance for Achieving Wianamatta South Creek Stormwater Management Targets (DPE, 2022);</p> <p>(b) detail erosion and sediment controls to be implemented during construction, including as a minimum, measures in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book';</p> <p>(c) detail all off-site flows from the AWRC site;</p> <p>(d) the Dewatering Procedure and Drilling Fluid Management Procedure as committed to in the documents listed in Condition A1.</p>	Construction	X			N	Y	Y	N/A	
C7	CEMP	The Flood Emergency Response CEMP Sub-Plan must include measures for managing flood risks during construction and address flood recovery.	Construction	X			N	Y	Y	N/A	
C8	CEMP	<p>The Soils and Contamination CEMP Sub-Plan must be prepared by a Contaminated Land Consultant certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme. The Soils and Contamination CEMP Sub-Plan must include measures to address any contamination found during construction. The Soils and Contamination CEMP Sub-Plan must include (but not limited to):</p> <p>(a) details of construction activities and their locations which have the potential to expose areas known to contain, or potentially contain, contaminated soils and/or other contaminated materials;</p> <p>(b) measures for the handling, treatment and management of hazardous and contaminated soils and materials, including measures to manage and/or minimise worker and public health and safety risks with regard to exposure to contamination;</p> <p>(c) a description of how the effectiveness of the actions and measures for managing contamination impacts would be monitored during the proposed works, clearly indicating how often this monitoring would be undertaken, the locations where monitoring would take place, and how the results of the monitoring would be recorded and reported;</p> <p>(d) measures to identify contamination during Works;</p> <p>(e) measures to manage acid sulfate soils;</p> <p>(f) measures to manage asbestos finds; and</p> <p>(g) measures to detail unexpected finds consistent with the Unexpected Finds Procedure for Contamination required under Condition E88. The procedure must include details of who will be responsible for implementing the Unexpected Finds Procedure for Contamination and the roles and responsibilities of all parties involved.</p> <p>The Soils and Contamination CEMP Sub-Plan must be reviewed by the Site Auditor engaged under Condition E74. The Site Auditor must issue interim audit advice or a relevant site audit statement stating whether they consider the Soils and Contamination CEMP Sub-Plan to be adequate. Once reviewed by the Site Auditor and approved by the Planning Secretary, the Soils and Contamination CEMP Sub-Plan must be implemented throughout the duration of construction.</p>	Construction	X			N	Y	Y	N/A	
C9	CEMP	<p>The Biodiversity CEMP Sub-Plan must be prepared by a suitably qualified and experienced ecologist and include, but not limited to:</p> <p>(a) details of the measures to avoid and minimise disturbance to native vegetation, and other habitat of native flora and fauna species;</p> <p>(b) procedures for undertaking pre-clearance surveys for native fauna, including surveys by a suitably qualified and experienced ecologist to determine the presence of native fauna in the areas impacted by Stage 1 of the CSSI, and procedures and measures to manage their relocation;</p> <p>(c) measures to prevent the spread of weeds, pathogens and to manage biosecurity;</p> <p>(d) protocols for incidental finds of threatened species and ecological communities within the construction boundary;</p> <p>(e) proposed passive roost exclusion measures over the vertical shaft at the Warragamba environmental flows release structure, as committed to in the documents listed in Condition A1.</p>	Construction	X			N	Y	Y	N/A	

Condition	Header/ Aspect	FINAL Condition	Phase	Staging			Responsibility				Staging Justification/ Other Comments
				Stage 1	Stage 1 (later stage)	Stage 2	SWC	AWRC contractor	Pipeline Contractor	O&M	
C10	CEMP	The Noise and Vibration CEMP Sub-Plan must include, but not limited to: (a) details of all sensitive land use(s) (including noise and vibration sensitive working areas) that are potentially exposed to construction noise and vibration; (b) construction noise and vibration performance criteria for Stage 1 of the CSSI; (c) details of mitigation and management measure and procedures that will be implemented to manage construction noise and vibration impacts; (d) construction timetabling, in particular construction activities outside of standard hours; and (e) measures to minimise cumulative construction impacts and the likelihood for construction fatigue from both concurrent activities and other projects in the area.	Construction	X			N	Y	Y	N/A	
C11	CEMP	Construction must not commence until the CEMP and all CEMP Sub-plans have been approved by the Planning Secretary.	Construction	X			N	Y	Y	N/A	
C12	CEMP	The CEMP and CEMP Sub-plans as approved, including any minor amendments approved by the ER, must be implemented for the duration of construction of Stage 1 of the CSSI.	Construction	X	X		N	Y	Y	N/A	
C13	Construction Monitoring Programs	The following Construction Monitoring Programs must be prepared in consultation with the relevant government agencies identified for each to compare actual performance of construction of Stage 1 of the CSSI against the performance predicted in the documents listed in Condition A1 or in the CEMP: Required Construction Monitoring Programs Relevant government agencies to be consulted for each Construction Monitoring Program (a) Surface water quality EPA, EHG, DPE Water, DPI Fisheries, WaterNSW and relevant council(s) (b) Groundwater EPA, DPE Water (c) Noise and vibration EPA, WaterNSW and relevant council(s)	Construction	X			N	Y	Y	N/A	
C14	Construction Monitoring Programs	Each Construction Monitoring Program (CMP) must have consideration of SMART principles and provide: (a) details of baseline data available; (b) details of baseline data to be obtained and when; (c) details of all monitoring of the project to be undertaken; (d) the parameters of the project to be monitored; (e) the frequency of monitoring to be undertaken; (f) the location of monitoring; (g) the reporting of monitoring results and analysis results against relevant criteria; (h) details of the methods that will be used to analyse the monitoring data; (i) procedures to identify and implement additional mitigation measures where the results of the monitoring indicate unacceptable project impacts; and (j) any consultation to be undertaken in relation to the monitoring programs.	Construction	X			N	Y	Y	N/A	
C15	Construction Monitoring Programs	The CMP(s) must be endorsed by the ER and then submitted to the Planning Secretary for approval no later than one month before the commencement of construction, or where construction is staged, no later than one month before the commencement of each stage.	Construction	X			N	Y	Y	N/A	
C16	Construction Monitoring Programs	Construction must not commence until the relevant CMP(s) have been approved by the Planning Secretary and all relevant baseline data for the specific construction activity has been collected.	Construction	X			N	Y	Y	N/A	
C17	Construction Monitoring Programs	The CMP(s), as approved, including any minor amendments approved by the ER, must be implemented for the duration of construction and for any longer period set out in the monitoring program or specified by the Planning Secretary, whichever is the greater.	Construction	X	X		N	Y	Y	N/A	
C18	Construction Monitoring Programs	The results of the CMP(s) must be submitted to the Planning Secretary, and relevant regulatory agencies, for information in the form of a Construction Monitoring Report at the frequency identified in the relevant CMP. Note: Where a relevant CEMP Sub-plan exists, the relevant Construction Monitoring Program may be incorporated into that CEMP Sub-plan.	Construction	X	X		N	Y	Y	N/A	
D1	Operational Environmental Management	An Operational Environmental Management Plan (OEMP) must be prepared having regard to the Environmental Management Plan Guideline for Infrastructure Projects (Department of Planning, Industry and Environment, 2020). The OEMP must detail how the performance outcomes, commitments and mitigation measures made and identified in the documents listed in Condition A1 will be implemented and achieved during operation. Condition D1 does not apply if Condition D2 of this approval applies.	Operation	X	X		Y	y	N	Y	
D2	Operational Environmental Management	An OEMP is not required for Stage 1 of the CSSI if the Proponent has a certified Environmental Management System (EMS) or equivalent as agreed with the Planning Secretary, and demonstrates, to the satisfaction of the Planning Secretary, that through the certified EMS or equivalent: (a) the performance outcomes, commitments and mitigation measures, made and identified in the documents listed in Condition A1, and specified relevant terms of this approval can be achieved; (b) issues identified through ongoing risk analysis can be managed; and (c) procedures are in place for rectifying any non-compliance with this approval identified during compliance auditing, incident management or any other time during operation.	Operation	X	X		Y	y	N	Y	
D3	Operational Environmental Management	The OEMP or evidence of EMS certification or equivalent as agreed with the Planning Secretary, must be submitted to the Planning Secretary for information no later than one month before the commencement of operation of Stage 1 of the CSSI.	Operation	X	X		Y	N	N	Y	
D4	Operational Environmental Management	The OEMP or certified EMS or equivalent, as submitted to the Planning Secretary and amended from time to time, must be implemented for the duration of operation of Stage 1 of the CSSI, and the OEMP or EMS certification or equivalent must be made publicly available before the commencement of operation.	Operation	X	X		Y	N	N	Y	
E1	Air Quality and Odour Management	In addition to the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1, all reasonably practicable measures must be implemented to minimise the emission of dust and other air pollutants, including odours during the construction and operation of Stage 1 of the CSSI.	Construction/ Operation	X	X		N	Y	Y	Y	
E2	Air Quality and Odour Management	The final design of the discharge stacks of each co-generation engine must include a sampling plane compliant with Australian Standard AS4323.1 Stationary source emissions – Selection of sampling positions (2021).	Construction		X		Y	N/A	N	N	Cogeneration equipment and processes (including design processes) are not currently a part of the scope of the initial stage 1 works. Sydney Water, may introduce this scope in future submission of project documentation.
E3	Air Quality and Odour Management	The Waste Gas Burner must be designed to comply with relevant provisions of Division 4 of Part 5 of the Protection of the Environment Operations (Clean Air) Regulation 2021.	Construction	X	X		n	Y	N	N	

Condition	Header/ Aspect	FINAL Condition	Phase	Staging			Responsibility				Staging Justification/ Other Comments
				Stage 1	Stage 1 (later stage)	Stage 2	SWC	AWRC contractor	Pipeline Contractor	O&M	
E4	Air Quality and Odour Management	All plant and equipment installed and used for the project must be: (a) maintained in a proper and efficient condition; and (b) operated in a proper and efficient manner.	Construction/ Operation	X	X		Y	Y	Y	Y	
E5	Air Quality and Odour Management	Prior to the commencement of operation, the Proponent must prepare, implement and maintain an Odour Management Plan (OMP) for the AWRC. The OMP must be prepared by a suitably qualified and experienced person(s) in consultation with the EPA and submitted to the Planning Secretary for information.	Operation	X	X		N	Y	N	Y	
E6	Air Quality and Odour Management	The OMP must describe measures to minimise odour impacts associated with operation and include, but not necessarily limited to: (a) objectives and targets; (b) key performance indicators; (c) identification of all sources of odour associated with the operation; (d) a detailed description of odour mitigation methods and management practices; (e) a detailed description of the methods used for monitoring the effectiveness of the odour mitigation methods and management practices; (f) location, frequency and duration of monitoring; (g) details of proposed contingency measures should odour impacts occur; (h) a communications strategy for handling potential odour complaints that includes recording, investigation, reporting and actioning; and (i) system and performance review for continuous improvements.	Operation	X	X		N	Y	N	Y	
E7	Air Quality and Odour Management	The Proponent must engage a suitably qualified and experienced person(s) to undertake post commissioning air emissions sampling to verify the emission performance of the co-generation engine.	Construction/ Operation		X		Note	Note	N	NOTE	Cogeneration equipment and processes (including design processes) are not currently a part of the scope of the initial stage 1 works. Sydney Water, may introduce this scope in future submission of project documentation.
E8	Air Quality and Odour Management	The post commissioning sampling required under Condition E7 must occur within 3 months of the commissioning of the co-generation plant and corresponding air pollution controls.	Construction/ Operation		X		Note	Note	N	NOTE	
E9	Air Quality and Odour Management	Sampling at the co-generation engine ventilation outlet must be performed for all pollutants specified in column 1 of Table 3, using the methods listed in column 3 of Table 3. All sampling and analysis must be undertaken in accordance with the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales. Table 3: Co-generation engine ventilation outlet criteria Pollutant Units of measure Sampling method Nitrogen dioxide Milligrams per cubic metre TM-11 Volatile organic compoundsMilligrams per cubic metreTM-34 Carbon monoxideMilligrams per cubic metreTM-32 Temperaturedegrees CelsiusTM-2 Velocitymetres per secondTM-2 MoisturePercentTM-22 Note: Where an alternative method is proposed to be used, this must be approved in writing by the EPA prior to its use.	Construction/ Operation		X		Note	Note	N	NOTE	
E10	Air Quality and Odour Management	A minimum of two rounds of sampling must be undertaken to provide a suitable characterisation of emissions. Sampling must be undertaken when plant/process conditions are representative of emissions during representative periods of normal operation.	Construction/ Operation		X		N	Y	N	Y	
E11	Air Quality and Odour Management	An air emissions verification report must be prepared and submitted to the EPA and Planning Secretary for information no later than two months after completion of post commissioning sampling and monitoring. The air emissions verification report must contain, as a minimum, the following information: (a) a description of the process operating conditions at the time of sampling, including fuel usage rates and electricity generation (kWh); (b) a detailed description of the sampling location, including engineering drawings, schematics or photographs to support the description; (c) all information required to be reported under Section 4 of the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales; (d) comparison of measured emissions against the concentrations listed in Table 4: Table 4: Emission concentration standards PollutantUnits of measure 100 percentile concentration standard Reference conditions Oxygen correctionAveraging period Nitrogen dioxide Milligrams per cubic metre 450 Dry, 273K, 101.3 kPa 3.0%1 hour Volatile organic compounds (as n- propane) Milligrams per cubic metre 40 Dry, 273K, 101.3 kPa3.0 1 hour (e) Where the comparison under Condition E11(d) identifies monitoring results greater than the 100th percentile concentration standard, the air emissions verification report must identify additional mitigation measures to achieve the concentration standards. A timeline for implementation of any additional mitigation measures identified must also be nominated within the report. Notes: 1. Supporting evidence must be included which confirms that the plant/process was operating under normal, representative conditions at the time of sampling. 2. The EPA may utilise information contained in the report submitted to include additional conditions in any EPL issued for the project, including emissions limits and requirements for ongoing monitoring.	Construction/ Operation	X	X		N	Y	N	Y	
E12	Biodiversity	The clearing of native vegetation must be minimised to the greatest extent practicable with the objective of reducing impacts to threatened ecological communities, threatened species and their habitat.	Construction	X			N	Y	Y		
E13	Biodiversity	Impacts to plant community types and species credit species must not exceed those identified in Table 5 and Table 6.	Construction	X			N	Y	Y		

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E14	Biodiversity	<p>Prior to impacts on the biodiversity values of Stage 1 of the CSSI, the number and classes of ecosystem credits and species credits (like-for-like) as set out in Table 5 and Table 6, must be retired. The retirement of the credits must be carried out in accordance with the Biodiversity Conservation Act 2016, and can be achieved by:</p> <p>(a) acquiring and retiring “biodiversity credits” within the meaning of the BC Act; and / or</p> <p>(b) making a payment into the Biodiversity Conservation Fund of an amount equivalent to the class and number of ecosystem and species credits, as calculated by the Biodiversity Offsets Payment Calculator; and/or</p> <p>(c) funding a biodiversity conservation action that benefits the entity impacted and is listed in the ancillary rules of the biodiversity offset scheme.</p> <p>Table 5: Ecosystem Credits to be Retired</p> <p>Table 6: Species Credits to be Retired</p> <p>Note: Excludes certified areas.</p>	Construction	X			Y	note	note		
E15	Biodiversity	<p>Where evidence of compliance with the Ancillary rules: Reasonable steps to seek like-for-like biodiversity credits (OEI, 2017) for the purpose of applying the variation rules has been provided to the Planning Secretary, variation rules may be applied to retire the relevant ecosystem credits and species credits as set out in the BAM Biodiversity Credit Biodiversity Report (Variation). The variation rule does not apply to biodiversity credits for threatened species or threatened ecological communities that are listed as critically endangered under the Biodiversity Conservation Act 2016 or listed in any capacity under the Environment Protection and Biodiversity Conservation Act 1999.</p> <p>Note: “Impacted site” in the application of the like-for-like offset rules is taken to be the subject land described in the Biodiversity Development Assessment Report and Project Amendments: Biodiversity Assessment referred to in Condition A1. The subject land is the disturbance footprint subject to assessment under the Biodiversity Assessment Method.</p>	Construction	X			Y	n	n		
E16	Biodiversity	Evidence of the retirement of credits in satisfaction of Condition E14 must be provided to the Planning Secretary prior to impacts on biodiversity values.	Construction	X			Y	note	note		
E17	Biodiversity	<p>Where lands mapped as non-certified existing native vegetation (ENV) under the Order to confer biodiversity certification on the State Environmental Planning Policy (Sydney Regional Growth Centres) 2006 (the Order) are proposed to be impacted, the Proponent must prepare a Growth Centres Biodiversity Certification Offset Strategy. The strategy must:</p> <p>(a) be prepared in consultation with EHG and submitted to the Planning Secretary for approval prior to the commencement of construction;</p> <p>(b) be prepared in accordance with the Order;</p> <p>(c) detail how the Proponent proposes to meet the requirements specified under Relevant Biodiversity Measure (RBM) 8 of the Order; and</p> <p>(d) include the location of the offsets and the proposed measures to ensure the long-term protection of the offsets.</p> <p>Note: The Growth Centres Biodiversity Certification Offset Strategy under Condition E17 is only required in the event impacts on non-certified existing native vegetation (ENV) are proposed.</p>	Construction	X			Y	N	N		
E18	Biodiversity	The Proponent must avoid direct or indirect impacts to ENV within RBM 12 red-hatched lands at Kemps Creek and Cross Street during construction of Stage 1 of the CSSI.	Construction	X			N	N	Y		
E19	Biodiversity	The Proponent must prepare a Rehabilitation Management Plan to revegetate and restore impacted RBM 12 red-hatched lands at Kemps Creek, mapped within the amended impact assessment area at Appendix B. Rehabilitation must occur as soon as practical after construction of the brine pipeline mapped at Appendix B, or as otherwise agreed with relevant landowner(s) or EHG.	Construction	X			N	N	Y		
E20	Biodiversity	<p>The Rehabilitation Management Plan required under Condition E19 must be prepared in consultation with EHG and submitted to the Planning Secretary for approval one month before the commencement of construction in the RBM 12 red-hatched lands. The plan must include:</p> <p>(a) removal of all equipment, materials and environmental controls from site;</p> <p>(b) where like-for-like re-vegetation is not possible (for example, to minimise risk to pipelines from tree roots), consider vegetation suited to the infrastructure requirements and environmental conditions;</p> <p>(c) return disturbed areas to preconstruction ground level where practical;</p> <p>(d) rehabilitate areas of native vegetation removal to the highest ecological condition possible;</p> <p>(e) in areas of native vegetation removal, reuse felled vegetation (logs and tree-hollows) and other habitat features such as rocks and boulders to increase habitat values;</p> <p>(f) in areas of native vegetation removal, use locally sourced (local provenance) tube stock only. All species installed are to be locally indigenous and suitable and characteristic of the Plant Community Type (PCT) that would have originally occurred at the site;</p> <p>(g) where possible, reuse stockpiled vegetation as part of rehabilitation works;</p> <p>(h) where open trenching of waterways is required, enhance aquatic habitat and restore creeks to an improved state; and</p> <p>(i) preparation of six-monthly summary progress report(s) over the revegetation maintenance period, for submission to EHG for comment until EHG is satisfied that the vegetation is established.</p>	Construction	X			N	Y	Y		
E21	Biodiversity	The Proponent must minimise impacts to Key Fish Habitat (KFH) as defined in Policy and Guidelines for Fish Habitat Conservation and Management (DPI, 2013 update).	Construction	X	X		N	Y	Y		
E22	Biodiversity	The Proponent must take all reasonable and practicable measures to avoid open trenching of waterways, particularly Kemps Creek and South Creek, between late April and early June, and late October to late December, to minimise disruption of downstream and upstream Australian Bass migration.	Construction	X	X		N	Y	Y		
E23	Biodiversity	<p>Stage 1 of the CSSI must maximise the reuse of native vegetation and other habitat features that have been approved for removal. Where reuse by the CSSI is not possible, relevant council(s), NSW National Parks & Wildlife Service, Western Sydney Parklands Trust, Greater Sydney Local Land Services, local Landcare groups, DPI Fisheries and any additional relevant government agencies must be consulted prior to the removal of vegetation and other habitat to determine if:</p> <p>(a) hollows, tree trunks (greater than 25-30 centimetres in diameter and 2-3 metres in length), mulch, bush rock and root balls salvaged from native vegetation impacted by the CSSI; and</p> <p>(b) collected plant material, seeds and/or propagated plants from native vegetation impacted by the CSSI,</p> <p>could be used by others in habitat enhancement and rehabilitation activities, before pursuing other disposal options. If the native vegetation and other habitat features can be reused by others, the Proponent must advise them and facilitate access for salvage.</p>	Construction/ Operation	X			N	Y	Y		
E24	Flooding	Measures identified in the documents listed in Condition A1 to not worsen flood characteristics during operation or other measures that achieve the same outcomes, must be incorporated into the AWRC site detailed design of Stage 1 of the CSSI. The incorporation of these measures into the detailed design must be reviewed and endorsed by a suitably qualified flood consultant, who is independent of the project’s design and construction, in consultation with directly affected landowners, EHG, and relevant council(s).	Construction/ Operation	X			N	Y	N		

Condition	Header/ Aspect	FINAL Condition	Phase	Staging			Responsibility				Staging Justification/ Other Comments
				Stage 1	Stage 1 (later stage)	Stage 2	SWC	AWRC contractor	Pipeline Contractor	O&M	
E25	Flooding	<p>Unless otherwise agreed by the Planning Secretary, Stage 1 of the CSSI must be designed and constructed to limit impacts on flooding characteristics in areas outside the project boundary, to those impacts documented in the amended Flood Impact Assessment (FIA) (July 2022) listed in Condition A1.</p> <p>Where the requirements set out in the amended FIA (July 2022) listed in Condition A1 cannot be met alternative flood levels or mitigation measures may be agreed to with the affected landowner.</p> <p>In the event that the Proponent and the affected landowner cannot agree on the measures to mitigate the impact as described in the amended FIA (July 2022) listed in Condition A1, the Proponent must engage a suitably qualified and experienced independent person to advise and assist in determining the impact and relevant mitigation measures.</p>	Construction	X	X		N	Y	Y		
E26	Flooding	Flood information including flood reports, models and geographic information system outputs, and work as executed information from a registered surveyor certifying finished ground levels and the dimensions and finished levels of all structures within the flood prone land, must be provided to the relevant council(s), EHG and the SES in order to assist in preparing relevant documents and to reflect changes in flood behaviour as a result of Stage 1 of the CSSI. The council(s), EHG and the SES must be notified in writing that the information is available no later than one month following the completion of construction. Information requested by the relevant council(s), EHG or the SES must be provided no later than six months following the completion of construction or within another timeframe agreed with the relevant council(s), EHG and the SES.	Construction/ Operation	X	X		Y	Y	Y		
E27	Flooding	<p>Prior to the commencement of construction within the green space area as mapped in Figure 4-7 and Figure 4-8 of the Environmental Impact Statement listed in Condition A1, the Proponent must prepare a Flood Impact and Risk Assessment (FIRA) for the proposed concept design of the green space area. The FIRA must incorporate all proposed elements (including but not limited to vegetation, walking paths, fences, irrigation area and outdoor learning spaces). The FIRA must be prepared by a suitably qualified and experienced flood consultant in consultation with EHG, and provided to the Planning Secretary for approval.</p> <p>Note: Condition E27 excludes construction of elements required for effective operation and management of operational components of the AWRC plant. This includes release infrastructure to South Creek, fences around the AWRC operational area and fire trail around the AWRC operational area.</p>	Construction/ Operation	X	X		N	Y	N		
E28	Flooding	The FIRA required under Condition E27 must address the performance outcome criteria specified in Table 9.1.2 of the draft Western Sydney Aerotropolis Development Control Plan 2021 (draft Aerotropolis DCP Phase 2, October 2021).	Construction/ Operation	X	X		N	Y	Y		
E29	Heritage	All reasonable steps must be taken so as not to harm, modify or otherwise impact Aboriginal objects or places of cultural significance except as authorised by this approval.	Construction	X	X		N	Y	Y		
E30	Heritage	<p>The Registered Aboriginal Parties (RAPs) must be kept regularly informed about Stage 1 of the CSSI. The RAPs must continue to be provided with the opportunity to be consulted about the Aboriginal cultural heritage management requirements of Stage 1 of the CSSI.</p> <p>The Proponent must allow the RAPs an opportunity to undertake cultural salvage at each Aboriginal archaeological site identified for salvage in the Aboriginal Cultural Heritage Assessment Report (ACHAR) (June 2021) listed in Condition A1.</p> <p>Note: Details regarding ongoing engagement with RAP's must be provided in the Communication Strategy required under Condition B1.</p>	Construction	X	X		Y	N	N		
E31	Heritage	<p>At the completion of Aboriginal cultural heritage test and salvage excavations, an Aboriginal Cultural Heritage Excavation Report(s) must be prepared by a suitably qualified person. The Aboriginal Cultural Heritage Excavation Report(s), must:</p> <p>(a) be prepared in accordance with the Guide to Investigation, assessing and reporting on Aboriginal cultural heritage in NSW, OEH 2011 and the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales, DECCW 2010; and</p> <p>(b) document the results of the archaeological test excavations and any subsequent salvage excavations (with artefact analysis and identification of a final repository for finds).</p> <p>The RAPs must be given a minimum of 28 days to consider the report and provide comments before the report is finalised. The final report must be provided to the Planning Secretary, Heritage NSW, the relevant council(s), LALC, the RAPs and local libraries within 24 months of the completion of the Aboriginal archaeological excavations (both test and salvage).</p>	Construction	X			Y	N	N		
E32	Heritage	Where previously unidentified Aboriginal objects or places of cultural significance are discovered, all Work must immediately stop in the vicinity of the affected area. Works potentially affecting the previously unidentified objects and places must not recommence until Heritage NSW has been informed. The measures to consider and manage this process must be specified in the Unexpected Heritage Finds and Human Remains Procedure required by Condition E37 and include registration in the Aboriginal Heritage Information Management System (AHIMS).	Construction	X	X		N	Y	Y		
E33	Heritage	Archival photographic digital recording must be undertaken as proposed in the documents listed in Condition A1 for all listed heritage items which will be affected by Stage 1 of the CSSI. The recording must be undertaken prior to the commencement of Work which may impact the items and sites. The Archival recording must be undertaken by a suitably qualified heritage specialist and prepared in accordance with NSW Heritage Office's How to Prepare Archival Records of Heritage Items (1998) and Photographic Recording of Heritage Items Using Film or Digital Capture (2006). A copy must be provided to Heritage NSW and the relevant council(s) and submitted as part of the Heritage Report required by Condition E35.	Construction	X			Y	N	N		
E34	Heritage	Prior to commencement of archaeological excavation, the Proponent must nominate a suitably qualified Excavation Director who complies with Heritage NSW's Criteria for Assessment of Excavation Directors (September 2019) to oversee and advise on matters associated with historical archaeology. The Excavation Director must be present to oversee excavation, advise on archaeological issues, advise on the duration and extent of oversight required during archaeological excavations consistent with the Archaeological Research Design and Excavation Methodology included as part of the Environmental Impact Statement listed in Condition A1 .	Construction	X			Y	N	N		
E35	Heritage	<p>Following completion of archaeological excavation programs a Heritage Report must be prepared that includes:</p> <p>(a) the details of any archival recording,</p> <p>(b) further historical research undertaken</p> <p>(c) results of archaeological excavations (including artefact analysis and identification of a final repository for finds); and</p> <p>(d) details of any significant artefacts recovered, where they were located, and details of their ongoing conservation and protection in perpetuity.</p> <p>The report must be prepared in accordance with guidelines and standards required by Heritage NSW.</p>	Construction	X			Y	N	N		

Condition	Header/ Aspect	FINAL Condition	Phase	Staging			Responsibility				Staging Justification/ Other Comments
				Stage 1	Stage 1 (later stage)	Stage 2	SWC	AWRC contractor	Pipeline Contractor	O&M	
E36	Heritage	The Heritage Report must be submitted to the Planning Secretary, Heritage NSW, the relevant council(s), relevant local libraries and relevant local historical societies no later than 12 months after the completion of archaeological excavation programs.	Construction	X			Y	N	N		
E37	Heritage	An Unexpected Heritage Finds and Human Remains Procedure must be prepared to manage unexpected heritage finds in accordance with any guidelines and standards prepared by Heritage NSW and the Heritage Council of NSW. The Unexpected Heritage Finds and Remains Procedure must be submitted to the Planning Secretary for information before the commencement of Work. The procedure must be included in the Heritage CEMP Plan required by Condition C4.	Construction	X			N	Y	Y		
E38	Heritage	The Unexpected Heritage Finds and Human Remains Procedure, as submitted to the Planning Secretary, must be implemented for the duration of Work. Where archaeological investigations have been undertaken as a result of Unexpected Finds notifications then a Final Archaeological Report must be provided in accordance with Heritage Council guidance and standard requirements for final reporting under Excavation Permits. Note: Human remains that are found unexpectedly during the carrying out of Work may be under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately.	Construction	X	X		Y	Y	Y		
E39	Noise and vibration	A detailed land use survey must be undertaken to confirm sensitive land use(s) (including critical working areas such as operating theatres and precision laboratories) potentially exposed to construction noise and vibration, construction ground-borne noise and operational noise. The survey may be undertaken on a progressive basis but must be undertaken in any one area before the commencement of activities which generate construction or operational noise, vibration or ground-borne noise in that area. The results of the survey must be included in the Noise and Vibration CEMP Sub-plan required by Condition C4.	Construction	X			N	Y	Y	N/A	
E40	Noise and vibration	Work must be undertaken during the following hours: (a) 7:00am to 6:00pm Mondays to Fridays, inclusive; (b) 8:00am to 1:00pm Saturdays; and (c) at no time on Sundays or public holidays.	Construction	X	X		N	Y	Y	N/A	
E41	Noise and vibration	Except as permitted by an EPL, highly noise intensive Works that result in an exceedance of the applicable NML at the same receiver must only be undertaken: (a) between the hours of 8:00 am to 6:00 pm Monday to Friday; (b) between the hours of 8:00 am to 1:00 pm Saturday; and (c) if continuously, then not exceeding three hours, with a minimum cessation of Work of not less than one hour. For the purposes of this condition, 'continuously' includes any period during which there is less than one hour between ceasing and recommencing any of the Work.	Construction	X	X		N	Y	Y	N/A	
E42	Noise and vibration	Notwithstanding Conditions E40 and E41 Work may be undertaken outside the hours specified in the following circumstances (a, b, or c): (a) Safety and Emergencies, including: (i) for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or (ii) where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm. On becoming aware of the need for emergency work in accordance with Condition E42(a), the AA, the ER, the Planning Secretary and the EPA must be notified of the reasons for such work. Best endeavours must be used to notify all noise and/or vibration affected residents and owners/occupiers of properties identified sensitive land use(s) of the likely impact and duration of those works; or (b) Work that meets all of the following criteria: (i) construction that causes LAeq(15 minute) noise levels: · no more than 5 dB(A) above the rating background level at any residence in accordance with the ICNG, and · no more than the 'Noise affected' NMLs specified in Table 3 of the ICNG at other sensitive land use(s); or (ii) construction that causes: · continuous or impulsive vibration values, measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006), or · intermittent vibration values measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006). (c) By Approval, including: (i) where different construction hours are permitted or required under an EPL in force in respect of the CSSI; or (ii) works which are not subject to an EPL that are approved under an Out-of-Hours Work Protocol as required by Condition E43; or (iii) negotiated agreements with directly affected residents and sensitive land use(s).	Construction	X	X		N	Y	Y	N/A	

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E43	Noise and vibration	<p>An Out-of-Hours Work Protocol must be prepared to identify a process for the consideration, management and approval of Work which is outside the hours defined in Conditions E40, and that are not subject to an EPL. The Protocol must be submitted to and approved by the Planning Secretary before commencement of the out-of-hours work. The Protocol must be prepared in consultation with the ER, AA and EPA. The Protocol must include:</p> <p>(a) identification of low and high-risk activities and an approval process that considers the risk of activities, proposed mitigation, management, and coordination, including where:</p> <p>(i) the ER and AA review all proposed out-of-hours activities and confirm their risk levels,</p> <p>(ii) low risk activities can be approved by the ER in consultation with the AA, and</p> <p>(iii) high risk activities that are approved by the Planning Secretary;</p> <p>(b) a process for the consideration of out-of-hours work against the relevant NML and vibration criteria;</p> <p>(c) a process for selecting and implementing mitigation measures for residual impacts in consultation with the community at each affected location, including respite periods consistent with the requirements of Condition E55. The measures must take into account the predicted noise levels and the likely frequency and duration of the out-of-hours works that sensitive land use(s) would be exposed to, including the number of noise awakening events;</p> <p>(d) procedures to facilitate the coordination of out-of-hours work including those approved by an EPL or undertaken by a third party, to ensure appropriate respite is provided; and</p> <p>(e) notification arrangements for affected receivers for approved out-of-hours work and notification to the Planning Secretary of approved low risk out-of-hours works.</p> <p>This condition does not apply if the requirements of Condition E42(a) or (b) are met.</p> <p>Note: If the Work is subject to an EPL and the EPA does not endorse extended hours as part of the EPL, the extended hours can not be considered under this Protocol.</p>	Construction	X			N	Y	Y	N/A	
E44	Noise and vibration	<p>Mitigation measures must be implemented with the aim of achieving the following construction noise management levels and vibration objectives:</p> <p>(a) construction 'Noise affected' NMLs established using the Interim Construction Noise Guideline (DECC, 2009);</p> <p>(b) vibration criteria established using the Assessing vibration: a technical guideline (DEC, 2006) (for human exposure);</p> <p>(c) Australian Standard AS 2187.2 - 2006 "Explosives - Storage and Use - Use of Explosives";</p> <p>(d) BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2" as they are "applicable to Australian conditions"; and</p> <p>(e) the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration- effects of vibration on structures (for structural damage).</p> <p>Work that exceeds the noise management levels and/or vibration criteria must be managed in accordance with the Noise and Vibration CEMP Sub-plan required by Condition C4, as applicable.</p> <p>Note: The ICNG identifies 'particularly annoying' activities that require the addition of 5 dB(A) to the predicted level before comparing to the construction NML.</p>	Construction	X	X		N	Y	Y	N/A	
E45	Noise and vibration	<p>Mitigation measures must be applied when the following residential ground-borne noise levels are exceeded:</p> <p>(a) evening (6:00 pm to 10:00 pm) — internal LAeq(15 minute): 40 dB(A); and</p> <p>(b) night (10:00 pm to 7:00 am) — internal LAeq(15 minute): 35 dB(A).</p> <p>The mitigation measures must be outlined in the Noise and Vibration CEMP Sub-plan, including in any Out-of-Hours Work Protocol, required by Condition E43.</p>	Construction	X	X		N	Y	Y	N/A	
E46	Noise and vibration	Noise generating Work in the vicinity of community, religious, educational institutions, noise and vibration-sensitive businesses and critical working areas (such as theatres, laboratories and operating theatres) resulting in noise levels above the NMLs must not be timetabled during sensitive periods, unless other reasonable arrangements with the affected institutions are made at no cost to the affected institution.	Construction	X			N	Y	Y	N/A	
E47	Noise and vibration	At no time can noise generated by construction exceed the National Standard for exposure to noise in the occupational environment of an eight-hour (8hr) equivalent continuous A-weighted sound pressure level of LAeq,8h of 85 dB(A) for any employee working at a location near the CSSI.	Construction/ Operation	X	X		N	Y	Y	N/A	
E48	Noise and vibration	Construction Noise and Vibration Impact Statements (CNVIS) must be prepared for Work that may exceed the noise management levels, vibration criteria and/or ground-borne noise levels specified in Condition E44 and Condition E45 at any residence outside construction hours identified in Condition E40, or where receivers will be highly noise affected. The CNVIS must include specific mitigation measures identified through consultation with affected sensitive land use(s) and the mitigation measures must be implemented for the duration of the Works. A copy of the CNVIS must be provided to the AA and ER prior to the commencement of the associated Works. The Planning Secretary may request a copy/ies of CNVIS.	Construction	X			N	Y	Y	N/A	
E49	Noise and vibration	Owners and occupiers of properties at risk of exceeding the screening criteria for cosmetic damage must be notified before Work that generates vibration commences in the vicinity of those properties. If the potential exceedance is to occur more than once or extend over a period of 24 hours, owners and occupiers are to be provided a schedule of potential exceedances on a monthly basis for the duration of the potential exceedances, unless otherwise agreed by the owner and occupier. These properties must be identified and considered in the Noise and Vibration CEMP Sub-plan required by Condition C4 and the Community Communication Strategy required by Condition B1.	Construction	X			N	Y	Y	N/A	
E50	Noise and vibration	<p>Industry best practice construction methods must be implemented where reasonably practicable to ensure that noise levels are minimised. Practices must include, but are not limited to:</p> <p>(a) use of regularly serviced low sound power equipment;</p> <p>(b) early occupation and later release of road carriageways and construction sites;</p> <p>(c) scheduling of noisiest Works before 11.00 pm Sunday to Thursday and before 12 midnight Friday and Saturday;</p> <p>(d) temporary noise barriers (including the arrangement of plant and equipment) around noisy equipment and activities such as rock hammering and concrete cutting; and</p> <p>(e) use of alternative construction and demolition techniques.</p>	Construction	X	X		N	Y	Y	N/A	

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E51	Noise and vibration	The Proponent must conduct vibration testing before and during vibration generating activities that have the potential to impact on heritage items to identify minimum working distances to prevent cosmetic damage. In the event that the vibration testing and attended monitoring shows that the preferred values for vibration are likely to be exceeded, the construction methodology must be reviewed and, if necessary, additional mitigation measures implemented.	Construction	X			N	Y	Y	N/A	
E52	Noise and vibration	Advice from a heritage specialist must be sought on methods and locations for installing equipment used for vibration, movement and noise monitoring at heritage-listed structures. Note: The installation of noise and vibration equipment must not impact on the heritage values of the Heritage items.	Construction	X			N	Y	Y	N/A	
E53	Noise and vibration	Before conducting at-property treatment at any heritage item identified in the documents listed in Condition A1, the advice of a suitably qualified and experienced built heritage expert must be obtained and implemented to ensure any such Work does not have an adverse impact on the heritage significance of the item.	Construction	X			N	Y	Y	N/A	
E54	Noise and vibration	All work undertaken for the construction of Stage 1 of the CSSI, including those undertaken by third parties (such as utility relocations), must be coordinated to ensure respite periods are provided. This must include: (a) rescheduling Work to provide respite to impacted noise sensitive land use(s) so that the respite is achieved in accordance with Condition E55; or (b) the provision of alternative respite or mitigation to impacted noise sensitive land use(s); and (c) the provision of documentary evidence to the AA in support of any decision made in relation to respite or mitigation. The consideration of respite must also include all other CSSI, SSI and SSD projects which may cause cumulative and/or consecutive impacts at receivers affected by the delivery of Stage 1 of the CSSI.	Construction	X			N	Y	Y	N/A	
E55	Noise and vibration	In order to undertake out-of-hours work outside the hours specified under Condition E40, the appropriate respite periods must be identified for the out-of-hours work in consultation with the community at each affected location on a regular basis. This consultation must include (but not be limited to) providing the community with: (a) a progressive schedule for periods of likely out-of-hours work; (b) a description of the potential work, location and duration of the out-of-hours work; (c) the noise characteristics and likely noise levels of the work; and (d) likely mitigation and management measures which aim to achieve the relevant noise management levels and vibration criteria under Condition E44 (including the circumstances of when respite or relocation offers will be available and details about how the affected community can access these offers). The outcomes of the community consultation, the identified respite periods and the scheduling of the likely out-of-hour work must be provided to the AA, ER, EPA and the Planning Secretary for information prior to undertaking the Work scheduled for the subject period. Note: Respite periods can be any combination of days or hours where out-of-hours work would not be more than 5 dB(A) above the rating background noise level at any residence.	Construction	X			N	Y	Y	N/A	
E56	Noise and vibration	An Operational Noise Review (ONR) must be prepared to confirm noise control measures that would be implemented for the operation of Stage 1 of the CSSI. The ONR must be prepared in consultation with relevant council(s) and the EPA and must: (a) confirm the appropriate operational noise and vibration objectives and levels for surrounding development, including existing sensitive land use(s); (b) confirm the operational noise predictions based on the final design. Confirmation must be based on an appropriately calibrated model(s) (which has incorporated noise monitoring, and concurrent traffic counting, where necessary for calibration purposes). The assessment must specifically include verification of noise levels at all fixed facilities, based on noise monitoring undertaken at appropriately identified noise catchment areas surrounding the facilities; (c) identify all noise and vibration mitigation measures including location, type and timing of mitigation measures, with a focus on: (i) source control and design; and (ii) 'best practice' achievable noise and vibration outcome for each activity; (d) include a consultation strategy to seek feedback from directly affected landowners on the noise measures; and (e) procedures for the management of operational noise complaints, including investigation and monitoring (subject to complainant agreement). The ONR must be verified by the AA or an independent acoustic expert. The ONR must be undertaken at the projects expense and submitted to the Planning Secretary for information at least 12 months prior to the commencement of operation, unless otherwise agreed by the Planning Secretary. The identified noise measures must be implemented and the ONR must be made publicly available.	Operation	X	X		N	Y	N	N/A	
E57	Noise and vibration	Within 12 months of the commencement of operation of Stage 1 of the CSSI, monitoring of operational noise must be undertaken to compare actual noise performance of Stage 1 of the CSSI against the noise performance predicted in the review of noise mitigation measures required by Condition E56.	Operation	X	X		N	y	N	Y	
E58	Place, urban design and visual amenity	Stage 1 of the CSSI must be constructed in a manner that minimises visual impacts of construction sites. For example, decorative hoarding, landscaping and/or vegetative screening of ancillary facilities, minimising light spill, and incorporating architectural treatment and finishes within key elements of temporary structures that reflect the context within which the construction sites are located, including recognition of Country.	Construction	X	X		N	Y	Y	N/A	
E59	Place, urban design and visual amenity	Stage 1 of the CSSI must be constructed and operated with the objective of minimising light spillage to surrounding properties. All lighting associated with the construction and operation of Stage 1 of the CSSI must be consistent with the requirements of AS/NZS 4282:2019 Control of the obtrusive effects of outdoor lighting, relevant Australian Standards in the series AS/NZ 1158 – Lighting for Roads and Public Spaces, and National Airports Safeguarding Framework (NASF) Guideline E: Managing the Risk of Distractions to Pilots from Lighting in the Vicinity of Airports. Additionally, mitigation measures must be provided to manage any residual night lighting impacts to protect properties adjoining or adjacent to the CSSI, in consultation with affected landowners. Note: The outcomes of this condition must be demonstrated in the Urban Design and Landscape Plan.	Construction/ Operation	X			y	Y	N	Y	

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E60	Place, urban design and visual amenity	<p>Temporary and permanent active transport facilities along the pipeline alignment must be designed, constructed and/or rectified in accordance with:</p> <p>(a) the process set out in the Movement and Place Framework (NSW Government) including:</p> <p>(i) the Walking Space Guide: Toward Pedestrian Comfort and Safety (TfNSW, 2020); and</p> <p>(ii) the Cycleway Design Toolbox: Designing for Cycling and Micromobility (TfNSW, 2020).</p> <p>(b) the Guide to Road Design Part 6A: Paths for Walking and Cycling (Austroads 2017) where not otherwise covered by (a);</p> <p>(c) relevant Australian Standards (AS) such as AS 1428.1-2009 Design for access and mobility; and</p> <p>(d) relevant Crime Prevention Through Environmental Design (CPTED) principles.</p> <p>Note: In the event of an inconsistency, the latest guidance document prevails to the extent of the inconsistency.</p>	Construction	X			N	Y	Y	N/A	
E61	Place, urban design and visual amenity	<p>The place making, design and landscape outcomes for the AWRC site of Stage 1 of the CSSI must be:</p> <p>(a) informed by and be consistent with the Upper South Creek Advanced Water Recycling Centre Urban Design Report, dated July 2021 (provided as Attachment A to RFI 1, dated 1 June 2022) and identified in the documents listed in Condition A1, including but not limited to the objectives and design principles, requirements, and opportunities; and</p> <p>(b) prepared in consultation with the community (including the affected landowners and businesses or a representative of the businesses), LALCs, RAPs and relevant council(s).</p>	Construction/ Operation	X	X		N	Y	N	N/A	
E62	Place, urban design and visual amenity	Where Work results in the temporary removal of a recreational or community use, and no similar use with sufficient capacity for regular users is located within two (2) kilometres of the site, then a temporary facility of comparable scale must be provided for the duration of the use of that site.	Construction	X			N	N	Y	N/A	
E63	Place, urban design and visual amenity	<p>An Urban Design and Landscape Plan (UDLP) must be prepared for the AWRC site to document and illustrate the permanent built works and landscape design of Stage 1 of the CSSI and how these works are to be maintained. The UDLP must be:</p> <p>(a) prepared by a suitably qualified and experienced person(s) in place, urban and landscape design and bush regeneration;</p> <p>(b) prepared in consultation with relevant council(s) and the community, including affected landowners and businesses;</p> <p>(c) submitted to the Planning Secretary for approval no later than one month before the construction of permanent built surface works and/or landscaping in the area to which the UDLP applies; and</p> <p>(d) implemented during construction and operation of Stage 1 of the CSSI.</p> <p>Note: The UDLP may be developed and considered in stages to facilitate design progression and construction. Any such staging and associated approval would need to facilitate a cohesive final design and not limit final design outcomes.</p>	Construction	X	X		N	Y	Y	N/A	
E64	Place, urban design and visual amenity	<p>The UDLP must document how the following matters have been considered in the design and landscaping of the project:</p> <p>(a) the requirements of Conditions E61 to E62;</p> <p>(b) the requirements of the Wildlife Management Plan under Condition E130;</p> <p>(c) demonstrated integration of Crime Prevention Through Environmental Design (CPTED) principles;</p> <p>(d) Designing with Country and the principles and objectives of the draft Connecting with Country Framework;</p> <p>(e) the finalised version of the draft guideline ‘Recognise Country – Draft Guidelines for development in the Aerotropolis’;</p> <p>(f) constraints associated with bushfire, flooding and airport safeguarding;</p> <p>(g) vegetation management that considers the principles of Guidelines for Vegetation Management Plans on Waterfront Land (NSW Office of Water, DPI 2012), draft Western Sydney Aerotropolis Riparian Revegetation Strategy, and the tree planting provisions in the draft Western Sydney Aerotropolis Development Control Plan – Phase 2 (October 2021);</p> <p>(h) architectural design to soften the industrial aesthetic;</p> <p>(i) integrating heritage character of the site with treatment and finishes of the new design; and</p> <p>(j) inputs from relevant experts in architecture, landscape architecture, bushfire management, heritage, revegetation, ecology, wildlife hazard management and flooding.</p>	Construction	X	X		N	Y	N	N/A	
E65	Place, urban design and visual amenity	<p>The UDLP must include descriptions and visualisations (as appropriate) of:</p> <p>(a) the design of the permanent built elements for the AWRC site including their form, materials and detail;</p> <p>(b) place, design and landscape outcomes for the proposed green space area, consistent with the Upper South Creek Advanced Water Recycling Centre Urban Design Report, dated July 2021 (provided as Attachment A to RFI 1, dated 1 June 2022) and identified in the documents listed in Condition A1;</p> <p>(c) the design of the project landform and landscaping elements;</p> <p>(d) the type and design of public and open space;</p> <p>(e) details of strategies to rehabilitate, regenerate or revegetate disturbed areas with local native species; and</p> <p>(f) management and routine maintenance standards and regimes for design elements and landscaping Work (including adequate watering of plants following planting depending on forecast weather conditions and weed management) to ensure the success of the design and landscape outcomes.</p> <p>Unless otherwise agreed with the Planning Secretary, construction of permanent built work or landscaping that are the subject of the UDLP must not be commenced (in the area to which the UDLP applies) until the UDLP has been approved by the Planning Secretary.</p>	Construction	X	X		N	Y	N	N/A	
E66	Place, urban design and visual amenity	<p>The ongoing maintenance and operation costs of urban design, open space, landscaping and recreational items and work implemented for the AWRC site as part of this approval remain the Proponent’s responsibility until satisfactory arrangements have been put in place for the transfer of the asset to the relevant authority. Before the transfer of assets, the Proponent must maintain items and work to at least the design standards established in the UDLP, required by Condition E65.</p> <p>The Planning Secretary must be advised of the date of transfer of the asset(s) to the relevant authority.</p>	Operation	X	X		Y	N	N	Y	
E67	Place, urban design and visual amenity	Plant maintenance (watering and weeding) must continue during construction and operation on land owned by Sydney Water. Sydney Water must continue plant maintenance on other land specified in the Rehabilitation Management Plan under Condition E19 and Condition E20 and committed to in the documents listed in Condition A1 for the maintenance period specified, in consultation with EHG and relevant landowner(s), as required. Should any plant loss occur during the maintenance period, the plants should be replaced by the same plant species and growth form (i.e. a tree with a tree and local native provenance species where the original planting was of local native provenance) unless it is determined by a suitably qualified person that a different species is more suitable for that location.	Construction/ Operation	X	X		Y	Y	N	Y	

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E68	Social, landuse and property	The Proponent must identify the utilities and services (hereafter “services”) potentially affected by construction to determine requirements for diversion, protection and/or support. Alterations to services must be determined by negotiation between the Proponent and the service providers. The Proponent in consultation with service providers must ensure that disruption to services resulting from Stage 1 of the CSSI are avoided where practical and advised to customers.	Construction	X			N	Y	Y		
E69	Social, landuse and property	The Proponent must offer pre-construction surveys to the owners of surface and sub-surface structures and other relevant assets identified at risk from vibration, including all listed heritage items and buildings/structures of heritage significance as identified in the documents listed in Condition A1. Where the offer is accepted, the survey must be undertaken by a suitably qualified and experienced engineer and/or building surveyor prior to the commencement of vibration generating Works that could impact on the structure/asset. The results of each survey must be documented in a Pre-construction Condition Survey Report and the report must be provided to the owner of the item(s) surveyed no later than one month before the commencement of all other potentially impacting Works.	Construction	X			N	Y	Y		
E70	Social, landuse and property	Where pre-construction surveys have been undertaken in accordance with Condition E69, subsequent post-construction surveys of the structure / asset must be undertaken by a suitably qualified and experienced engineer and/or building surveyor to assess damage that may have resulted from the vibration-generating Works. The results of the post-construction surveys must be documented in a Post-Construction Condition Survey Report for each item surveyed. The Post-construction Condition Survey Reports must be provided to the owner of the structures/assets surveyed, and no later than four months following the completion of construction activities that have the potential to impact on the structure / asset.	Construction	X			N	Y	Y		
E71	Social, landuse and property	Where damage has been determined to occur as a result of Stage 1 of the CSSI, the Proponent must carry out rectification at its expense and to the reasonable requirements of the owner of the structure/asset within nine months of the completion of construction activities that have the potential to create damage unless another timeframe is agreed with the owner. Alternatively, the Proponent may pay compensation for the damage as agreed with the owner.	Construction/ Operation	X			N	Y	Y		
E72	Soil and contamination	Prior to the commencement of any Work, erosion and sediment controls must be installed and maintained, as a minimum, in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the ‘Blue Book’. In the South Creek catchment, controls must also be in accordance with the construction phase targets and sediment and erosion control design principles outlined in the Technical Guidance for Achieving Wianamatta South Creek Stormwater Management Targets (DPE, 2022).	Construction	X	X		N	Y	Y		
E73	Soil and contamination	The Proponent must engage a Certified Professional in Erosion and Sediment Control (CPESC) with minimum five years’ experience to oversee all construction and sediment controls required for the AWRC.	Construction	X	X		N	Y	Y		
E74	Soil and contamination	A NSW EPA accredited Site Auditor(s) must be engaged before the commencement of contamination investigations until the completion of construction to ensure that any Work required in relation to contamination is appropriately managed. The Site Auditor is to be provided with all documentation relevant to the consideration of contamination risk and the management of contamination for the project, including previous site audits and site audit statements. The Site Auditor is to review all relevant documentation and provide a written opinion on the contamination risk and the appropriateness of the reports and any proposed management measures of the site, including (but not limited to): (a) the contamination aspects of management and monitoring plans in Conditions C1 and C4 including any updates or amendments to those plans; (b) the review of the Proponent’s risk rating for Areas of Environmental Concern (AECs) in Condition E76; (c) Sampling and Analysis Quality Plan in Condition E77; (d) Detailed Site Investigation Report(s) in Condition E79; (e) Remedial Action Plans in Condition E83; (f) Unexpected Finds Procedure for Contamination in Condition E88; and (g) Post-remediation validation reports.	Construction	X	X		Y	Y	Y		
E75	Soil and contamination	Evidence that the NSW EPA accredited Site Auditor has reviewed each of the plans and reports listed in Condition E74, and has issued an interim audit advice or a relevant Site Audit Statement regarding the appropriateness of those plans or reports, must be provided when the plan or report is submitted to the Planning Secretary for information. Where the NSW EPA accredited Site Auditor confirms that no further investigations are warranted, Conditions E76 to E82 do not apply.	Construction	X	X		N	Y	Y		
E76	Soil and contamination	The NSW EPA accredited Site Auditor must be engaged to review the risk rating for AECs identified in Appendix N (Soils and Contamination Impact Assessment) of the Environmental Impact Statement listed in Condition A1. Following this review, the Site Auditor must issue an interim audit advice confirming whether the risk rating has been undertaken appropriately.	Construction	X							
E77	Soil and contamination	Prior to the commencement of construction, a Sampling and Analysis Quality Plan (SAQP) for medium and high risk AECs, as confirmed by the Site Auditor and identified in the documents referred to in Condition E76, must be prepared to ensure that field investigations and analyses will be undertaken in a way that enables the collection and reporting of reliable data to meet project objectives, including the relevant site characterisation requirements of the detailed site investigations. The SAQP must: (a) be prepared (or reviewed and approved) by consultants certified under either the Environment Institute of Australia and New Zealand’s Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme; and (b) be prepared in accordance with relevant guidelines made or approved by the EPA under section 105 of the Contaminated Land Management Act 1997 (CLM Act).	Construction	X			N	Y	Y		
E78	Soil and contamination	For medium to high-risk AECs as confirmed by the NSW EPA accredited Site Auditor, Detailed Site Investigations(s) must be conducted to determine the full nature and extent of the contamination at project areas identified in the SAQP(s). The Detailed Site Investigations(s) must: (a) be prepared (or reviewed and approved) by consultants certified under either the Environment Institute of Australia and New Zealand’s Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme (b) be prepared in accordance with relevant guidelines made or approved by the EPA under section 105 of the CLM Act; and (c) state if the land within the project footprint is suitable for the proposed use or if the land requires remediation to be made suitable for the proposed use.	Construction	X							

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E79	Soil and contamination	<p>A Detailed Site Investigation Report must be submitted to the Planning Secretary upon request following the completion of the Detailed Site Investigation(s) required by Condition E78.</p> <p>The Detailed Site Investigation Report must be prepared in accordance with:</p> <p>(a) the land use criteria applicable to the final land use at the opening of Stage 1 of the CSSI. Where the final land use is unknown the most stringent criteria for the land use assumed in the documents listed in Condition A1 is to be applied; and</p> <p>(b) relevant guidelines made or approved by the EPA under section 105 of the CLM Act including Consultants Reporting on Contaminated Land: Contaminated Land Guidelines (NSW EPA 2020).</p> <p>The report must be prepared by a Contaminated Land Consultant certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme.</p> <p>Notes:</p> <p>1. Nothing in this condition prevents the Proponent from preparing individual Detailed Site Investigation Reports for separate contaminated sites.</p> <p>2. Where Detailed Site Investigation(s) have already been undertaken for contaminated soils, materials, groundwater or sediments, and the Site Auditor agrees that these Detailed Site Investigation(s) are appropriate in determining the nature and extent of contamination, they do not need to be undertaken again for the purposes of this condition.</p>	Construction	X			N	Y	Y		
E80	Soil and contamination	<p>The Detailed Site Investigation Report must provide details on:</p> <p>(a) primary sources of contamination, for example potentially contaminating activities, infrastructure (such as underground storage tanks, fuel line, sumps or sewer lines) or site practices;</p> <p>(b) contaminant dispersal in air, hazardous ground gases, surface water, groundwater, soil vapour, separate phase contaminants, sediments, infrastructure (e.g. concrete), biota, soil and dust;</p> <p>(c) contaminant characterisation and behaviour (volatility, leachability, speciation, degradation products and physical and chemical conditions on-site which may affect how contaminants behave);</p> <p>(d) potential effects of contaminants on human health, including the health of occupants of built structures (for example arising from risks to service lines from hydrocarbons in groundwater, or risks to concrete from acid sulphate soils) and the environment;</p> <p>(e) potential and actual contaminant migration routes including potential preferential pathways;</p> <p>(f) the adequacy and completeness of all information available for use in the assessment of risk and for making decisions on management requirements, including an assessment of uncertainty;</p> <p>(g) the review and update of the conceptual site model from the preliminary and detailed site investigations;</p> <p>(h) nature and extent of any existing remediation (such as impervious surface cappings); and</p> <p>(i) whether the land is suitable (for the intended final land use) or can be made suitable through remediation.</p>	Construction	X			N	Y	Y		
E81	Soil and contamination	<p>Detailed Site Investigation Reports must be reviewed by the NSW EPA accredited Site Auditor in accordance with Condition E74 and all recommendations made by the NSW EPA accredited Site Auditor implemented before Work commencing that could result in any disturbance of any land confirmed as a moderate to high risk area of potential contamination by the NSW EPA accredited Site Auditor.</p> <p>Notes:</p> <p>1. The intention of this condition is to require Detailed Site Investigation(s) of locations identified as an area of potential contamination to be completed before any form of excavation including the use of hand tools to expose soil to prevent unacceptable risk to human health or the environment on or off site.</p> <p>2. This condition does not prevent disturbance required to complete the Detailed Site Investigation(s).</p> <p>3. This condition does not prevent other activities that do not disturb the land where the ER has reviewed the appropriateness of those activities in accordance with Condition A28(j).</p>	Construction	X			N	Y	Y		
E82	Soil and contamination	Any recommendations made in the Detailed Site Investigation Report for changes to management measures in the CEMP sub-plan(s) must be incorporated into the relevant subplan required by Condition C4, unless otherwise approved by the Planning Secretary.	Construction	X			N	Y	Y		
E83	Soil and contamination	<p>Where remediation is required to make land suitable for the final intended land use, a Remedial Action Plan must be prepared and/or reviewed and approved by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme.</p> <p>The Remedial Action Plan must be prepared in accordance with relevant guidelines made or approved by the EPA under section 105 of the CLM Act and must include measures to remediate the contamination at the site to ensure the site will be made suitable for the final intended land use.</p> <p>Note: Nothing in this condition prevents the Proponent from preparing individual Remedial Actions Plan(s) for separate contaminated sites.</p>	Construction	X	X		Y	Y	Y		May extend past construction if remediation required in the green space
E84	Soil and contamination	If remediation is required to make land suitable for the final intended land use, then prior to commencing with the remediation, the Proponent must submit the Remedial Action Plan(s) and an interim audit advice from a NSW EPA accredited Site Auditor to the Planning Secretary for information, which considers that the Remedial Action Plan is appropriate and that the site can be made suitable for the proposed land use. The Remedial Action Plan must be implemented and any changes to the Remedial Action Plan must be approved in writing by the NSW EPA accredited Site Auditor.	Construction	X	X		N	Y	Y		
E85	Soil and contamination	<p>For any land confirmed as a moderate to high risk area of potential contamination by the NSW EPA accredited Site Auditor as per Condition E76, a Section A1 or A2 Site Audit Statement (accompanied by an Environmental Management Plan) and its accompanying Site Audit Report, which state that the contaminated land disturbed by the Work has been made suitable for the intended land use, must be submitted to the Planning Secretary and relevant council(s) after remediation and no later than one month before the commencement of operation of Stage 1 of the CSSI.</p> <p>Note: Nothing in this condition prevents the Proponent from obtaining Section A Site Audit Statements for individual parcels of remediated land.</p>	Construction/ Operation	X	X		N	Y	Y		

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E86	Soil and contamination	Contaminated land must not be used for the purpose approved under the terms of this approval until a Section A1 or A2 Site Audit Statement is obtained which states that the land is suitable for that purpose and any conditions on the Section A Site Audit Statement have been complied with.	Construction	X	X		N	Y	Y		
E87	Soil and contamination	Any recommendations to minimise risk to human health or the environment or for the management of contamination arising, the NSW EPA accredited Site Auditor review, advice or audits must be incorporated into the relevant CEMP sub-plan and implemented.	Construction/ Operation	X	X		N	Y	Y		
E88	Soil and contamination	<p>An Unexpected Finds Procedure for Contamination must be prepared before the commencement of Work and must be followed should unexpected contamination or asbestos (or suspected contamination) be excavated or otherwise discovered. The procedure must include details of who will be responsible for implementing the unexpected finds procedure and the roles and responsibilities of all parties involved. The Procedure must be reviewed by the Site Auditor and interim audit advice or a Section B Site Audit Statement provided certifying that the Unexpected Finds Procedure is appropriate. The Unexpected Finds Procedure must be submitted to the Planning Secretary for approval at least one month prior to the commencement of Work and a copy of the interim audit advice or Section B Site Audit Statement attached. The Unexpected Finds Procedure for Contamination must be implemented throughout Work.</p> <p>Note: Nothing in this condition prevents the Unexpected Finds Procedure for Contamination required under Condition E88 to be submitted for approval as part of the Soils and Contamination CEMP Sub-Plan under Condition C8.</p>	Construction/ Operation	X	X		N	Y	Y		
E89	Sustainability	A Sustainability Strategy must be prepared and implemented to achieve a minimum “Gold” ‘Design’ and ‘As built’ rating under the Infrastructure Sustainability Council infrastructure v2.1 rating tool, or at least “Excellent” under v1.2.	Construction/ Operation	X			N	Y	Y	N	
E90	Sustainability	Evidence that the minimum rating in Condition E89 have been achieved must be provided to the Planning Secretary for information within one month of receiving the ratings.	Construction/ Operation	X			N	Y	Y	N	
E91	Sustainability	The Sustainability Strategy must be implemented throughout design, construction and operation, and be submitted to the Planning Secretary for information.	Construction/ Operation	X	X		Y	Y	Y	Y	
E92	Sustainability	<p>A Water Reuse Strategy must be prepared, which sets out options for the reuse of collected stormwater and groundwater during construction and operation. The Water Reuse Strategy must include, but not be limited to:</p> <p>(a) evaluation of reuse options;</p> <p>(b) details of the preferred reuse option(s), including indicative volumes of water to be reused, proposed reuse locations and/or activities, proposed treatment (if required), and any additional licences or approvals that may be required;</p> <p>(c) measures to avoid misuse of stormwater and groundwater as potable water;</p> <p>(d) consideration of the public health risks from reuse of stormwater or groundwater;</p> <p>(e) a time frame for the implementation of the preferred reuse option(s).</p> <p>The Water Reuse Strategy must be prepared based on best practice and advice sought from relevant agencies, as required. The Strategy must be applied during construction and operation.</p> <p>Justification must be provided to the Planning Secretary if it is concluded that no reuse options prevail before the commencement of construction.</p> <p>A copy of the Water Reuse Strategy must be made publicly available prior to the commencement of construction. If reuse is only proposed during operation, then the Strategy must be made publicly available prior to the commencement of operation.</p> <p>Note: Nothing in this condition prevents the Proponent from preparing separate Water Reuse Strategies for the construction and operational phases of the CSSI.</p>	Construction/ Operation	X	X		N	Y	Y	Y	
E93	Traffic and transport	Access to all utilities and properties must be maintained during construction, where practicable, unless otherwise agreed with the relevant utility owner, landowner or occupier.	Construction	X			N	Y	Y		
E94	Traffic and transport	Any property access physically affected by Stage 1 of the CSSI must be reinstated to at least an equivalent standard, unless otherwise agreed by the landowner or occupier.	Construction	X			N	Y	Y		
E95	Traffic and transport	Local roads that are proposed to be used by heavy vehicles (for the purposes of Stage 1 of the CSSI) that are immediately adjacent to the construction boundary and ancillary facilities, and that are not identified for use by heavy vehicles in the documents listed in Condition A1, must be approved by the Planning Secretary as part of the Traffic and Transport Management CEMP Sub-plan.	Construction	X			N	Y	Y		
E96	Traffic and transport	<p>All requests to the Planning Secretary under Condition E95 must include the following:</p> <p>(a) a swept path analysis;</p> <p>(b) demonstration that the use of local roads by heavy vehicles for the Stage 1 of the CSSI will not compromise the safety of pedestrians and cyclists or the safety of two-way traffic flow on two-way roadways;</p> <p>(c) provide details as to the date of completion of the road dilapidation surveys for the subject local roads;</p> <p>(d) measures that will be implemented to avoid where practicable the use of roads past schools, aged care facilities and child care facilities during their peak operation times; and</p> <p>(e) written advice from an appropriately qualified professional on the suitability of the proposed heavy vehicle route which takes into consideration items (a), (b), (c), and (d) of this condition.</p>	Construction	X			N	Y	Y		
E97	Traffic and transport	<p>The locations of all heavy vehicles used for spoil haulage must be monitored in real time and the records of monitoring be made available electronically to the Planning Secretary and the EPA upon request for a period of no less than one year following the completion of construction.</p> <p>Note: Refer to Condition A47 in relation to vehicle identification.</p>	Construction	X			N	Y	Y		
E98	Traffic and transport	Before any local road is used by a heavy vehicle for the purposes of the Stage 1 of the CSSI, a Road Dilapidation Report must be prepared for the road. A copy of the Road Dilapidation Report must be provided to the relevant council(s) within three weeks of completion of the survey and no later than one month prior to the road being used by heavy vehicles associated with Stage 1 of the CSSI.	Construction	X			N	Y	Y		

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E99	Traffic and transport	If damage to roads occurs as a result of Stage 1 of the CSSI, the Proponent must either (at the relevant road authority's discretion): (a) compensate the relevant road authority for the damage so caused; or (b) rectify the damage to restore the road to at least the condition it was in pre-works as identified in the Road Dilapidation Report(s).	Construction/ Operation	X			N	Y	Y		
E100	Traffic and transport	Safe pedestrian and cyclist access must be maintained around Work sites during construction. In circumstances where pedestrian and cyclist access is restricted or removed due to construction activities, a proximate alternative route which complies with relevant standards, unless otherwise endorsed by an independent, appropriately qualified and experienced person, must be provided (including signposting) prior to the restriction or removal of the impacted access.	Construction	X			N	Y	Y		
E101	Traffic and transport	Vehicles (including light and heavy vehicles) associated with Stage 1 of the CSSI must be managed to: (a) minimise parking on public roads; (b) minimise idling and queueing on state and regional roads; (c) not carry out marshalling of construction vehicles near sensitive land user(s); (d) not block or disrupt access across pedestrian or shared user paths at any time; and (e) ensure spoil haulage vehicles adhere to the nominated haulage routes identified in the Traffic and Transport Management CEMP Sub-plan.	Construction	X			N	Y	Y		
E102	Traffic and transport	A Construction Parking and Access Strategy must be prepared to identify and mitigate impacts resulting from on- and off-street parking changes during construction in highly urbanised settings. The Strategy must include, but not necessarily be limited to: (a) achieving the requirements of Condition E101; (b) confirmation and timing of the removal of on- and off-street parking associated with construction of Stage 1 of the CSSI; (c) parking surveys of all parking spaces to be removed or occupied by the CSSI workforce in the vicinity of the tunnelling compounds at Cabravale Leisure Centre and Bartley Street, Cabramatta to determine current demand during peak, off-peak, school drop off and pickup, weekend periods and during special events; (d) consultation with affected stakeholders utilising existing on- and off-street parking stock which will be impacted as a result of construction; (e) assessment of the impacts to on- and off-street parking stock taking into consideration, occupation by the CSSI workforce, outcomes of consultation with affected stakeholders and considering the impacts of special events; (f) identification of mitigation measures to manage impacts to stakeholders as a result of on-and off-street parking changes including, but not necessarily limited to, staged removal and replacement of parking, and provision of alternative parking arrangements; (g) mechanisms for monitoring, over appropriate intervals, to determine the effectiveness of implemented mitigation measures; (h) details of shuttle bus service(s) to transport the CSSI workforce to construction sites from public transport hubs and off-site car parking facilities (where these are provided) and between construction sites; (i) provision of contingency measures should the results of mitigation or monitoring indicate implemented measures are ineffective; and (j) provision of reporting of monitoring results to the Planning Secretary and relevant council(s) at three monthly intervals. The Construction Parking and Access Strategy must be submitted to the Planning Secretary for information at least one month before the commencement of any construction that reduces the availability of existing parking. The Strategy must be implemented before impacting on on-street parking and incorporated into the Traffic and Transport Management CEMP Sub-plan.	Construction	X			N	Y	Y		
E103	Traffic and transport	During construction, all reasonably practicable measures must be implemented to maintain pedestrian and vehicular access to, and parking in the vicinity of, businesses and affected properties. Disruptions are to be avoided, and where avoidance is not possible, minimised. Where disruption cannot be minimised, alternative pedestrian and vehicular access, and parking arrangements must be developed in consultation with affected businesses and implemented prior to the disruption. Adequate signage and directions to businesses must be provided prior to, and for the duration of, any disruption.	Construction	X			N	Y	Y		
E104	Traffic and transport	Stage 1 of the CSSI (including new or modified local roads, parking, pedestrian and cycle infrastructure) must be designed to meet relevant design, engineering and safety guidelines, including the Austroads Guide to Traffic Management.	Construction	X	X		N	Y	Y		
E105	Traffic and transport	An independent Road Safety Audit must be undertaken to assess the safety performance of new or permanently modified local road, parking, pedestrian and cycle infrastructure provided as part of Stage 1 of the CSSI (including ancillary facilities) to ensure that they meet the requirements of relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Management. The audit(s) must be undertaken by an appropriately qualified and experienced person during detailed design development (audit of plans) and prior to opening (pre-opening audit). The audit findings and recommendations of the detailed design plans (audit of the plans) must be actioned prior to construction of the relevant infrastructure. The pre-opening audit findings and recommendations must be actioned prior to the relevant infrastructure being made available for use. All audit findings must be made available to the Planning Secretary on request, within the timeframe stated in the request.	Construction/ Operation	X			N	Y	Y		
E106	Traffic and transport	The Proponent must assess whether detailed design of the project would result in any increase to operational traffic movements identified in the documents listed in Condition A1 for the AWRC site, and submit the assessment to the Planning Secretary for information. If any such changes to operational traffic movements are identified, the Proponent must prepare a Road Network Performance Plan in consultation with the relevant council(s) and TfNSW. The Plan must be prepared to address the following: (a) an updated analysis, including modelling of traffic impacts to the adjoining road network, as a consequence of Stage 1 of the CSSI; (b) an assessment of the performance of the road network, inclusive of the Clifton Avenue / Elizabeth Drive intersection; and (c) mitigation measures to manage any predicted traffic performance impacts. If a Road Network Performance Plan is triggered under this condition, it must be submitted to the Planning Secretary, relevant council(s) and TfNSW for information six months prior to the operation of Stage 1 of the CSSI. The mitigation measures in the Plan must be implemented by the Proponent before the operation of Stage 1 of the CSSI.	Construction	X			N	Y	N		

Condition	Header/ Aspect	FINAL Condition	Phase	Staging			Responsibility				Staging Justification/ Other Comments
				Stage 1	Stage 1 (later stage)	Stage 2	SWC	AWRC contractor	Pipeline Contractor	O&M	
E107	Utilities Management	<p>A Utilities Management Strategy must be prepared and implemented for all utility Work undertaken as a result of Stage 1 of the CSSI. The Strategy must identify how utility Work will be defined and managed. The Utilities Management Strategy must include:</p> <p>(a) The functions of the Utility Coordination Manager as required by Condition E109; (b) A description of all utility Work to be undertaken; and (c) Management measures to be implemented to manage dust, noise, traffic, access, lighting and other relevant impacts associated with utility Work.</p> <p>The Utilities Management Strategy must be submitted to the Planning Secretary for information at least one month before the commencement of utility Work.</p>	Construction	X			N	Y	Y		
E108	Utilities Management	Nothing in this approval permits the carrying out of any utility Work not required for the purpose of the Stage 1 of the CSSI.	Construction	X			N	Y	Y		
E109	Utilities Management	<p>A Utility Coordination Manager must be appointed for the duration of Stage 1 of the CSSI Work. The role of the Utility Coordination Manager must include, but not be limited to:</p> <p>(a) the management and coordination of all utility Work associated with the delivery of Stage 1 of the CSSI, to ensure respite is provided to the community; (b) providing advice to the Public Liaison Officer(s) regarding upcoming utility Work, including the scope of the Work and the responsibility for the Work; and (c) investigating complaints received from the Public Liaison Officer(s) relating to utility Work and providing a response to the Public Liaison Officer(s).</p>	Construction	X	X		N	Y	Y		
E110	Waste	<p>Waste generated during construction and operation must be dealt with in accordance with the following priorities:</p> <p>(a) waste generation must be avoided and where avoidance is not reasonably practicable, waste generation must be reduced; (b) where avoiding or reducing waste is not possible, waste must be re-used, recycled, or recovered; and (c) where re-using, recycling or recovering waste is not reasonably practicable, waste must be treated or disposed of.</p>	Construction/ Operation	X	X		N	Y	Y		
E111	Waste	The importation of waste and the storage, treatment, processing, reprocessing or disposal of such waste must comply with the EPL in force for Stage 1 of the CSSI, or be done in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, as the case may be.	Construction	X	X		N	Y	Y		
E112	Waste	Waste must only be exported to a site licensed by the EPA for the storage, treatment, processing, reprocessing or disposal of the subject waste, or in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, or to any other place that can lawfully accept such waste.	Construction	X	X		N	Y	Y		
E113	Waste	All waste must be classified in accordance with the EPA's Waste Classification Guidelines, with appropriate records and disposal dockets retained for audit purposes.	Construction	X	X		N	Y	Y		
E114	Water	Works on waterfront land and within watercourses must have regard to Guidelines for controlled activities on waterfront land – Riparian Corridors (NRAR, 2018), Controlled activities on waterfront land – Guidelines for watercourse crossings on waterfront land (NSW Office of Water, 2013) and Policy and Guidelines for Fish Habitat Conservation and Management (DPI Fisheries, 2013). This includes outlets and watercourse crossings.	Construction	X	X		N	Y	Y	N	
E115	Water	Suitably qualified expert(s) must agree to methods of construction of pipelines across waterways and through shallow aquifers, in consultation with relevant State and/or local authorities.	Construction	X			N	Y	Y	N	
E116	Water	Drainage feature crossings (permanent and temporary watercourse crossings and stream diversions) and drainage swales and depressions must be carried out taking into consideration relevant guidelines and designed by a suitably qualified and experienced person.	Construction	X	X		N	Y	Y	N	
E117	Water	Rehabilitation and revegetation of the riparian corridor and banks of watercourses impacted by Stage 1 of the CSSI must be commenced within three months of the completion of the watercourse Work and any other Work required in the riparian corridor.	Construction/ Operation	X	X		N	Y	Y	N	
E118	Water	The Proponent must ensure sufficient water entitlement is held in a Water Access License(s) (WAL) to account for the maximum predicted take for each water source prior to the take occurring.	Construction	X			Y	y	y	n	
E119	Water	<p>The Proponent must develop and implement an ongoing Water Quality Monitoring Program (WQMP) to assess the impacts of the AWRC effluent discharges on water quality. The WQMP must include:</p> <p>(a) monitoring of treated effluent from the AWRC under different release streams; (b) monitoring of waterways that may be impacted by AWRC discharges (including comparison with baseline and upstream conditions). Monitoring must include upstream and downstream ambient water quality monitoring of receiving waters that may be impacted by the proposed Warragamba River release outlet, consistent with the documents listed in Condition A1; (c) details of the sampling frequency, analysis, and locations used in the program; (d) reporting requirements for the program to the EPA, including consideration of any expanded Beachwatch monitoring program in the Hawkesbury Nepean catchment.</p>	Construction/ Operation	X			Y	N	N	Y	
E120	Water	The WQMP required under Condition E119 must be submitted to the EPA for review at least 18 months prior to the commencement of operation of Stage 1 of the CSSI, and must be approved by the EPA and submitted to the Planning Secretary for information at least one year prior to the commencement of operation of Stage 1 of the CSSI.	Construction/ Operation	X			Y	N	N	Y	
E121	Water	<p>The Proponent must develop and implement a monitoring program to assess wet weather infiltration into the sewer network connected to the AWRC. The program must include:</p> <p>(a) monitoring of sewer infiltration rates throughout the AWRC sewer catchment from the commencement of operation onward; (b) proposed investigative actions and potential remedial actions for wet weather infiltration in the sewer network in the event that high wet weather infiltration is identified; and (c) reporting requirements for the program to the EPA.</p>	Construction/ Operation	X			Y	N	N	N	
E122	Water	<p>The monitoring program required under Condition E121 must be submitted to the EPA for review at least 18 months prior to the commencement of operation of Stage 1 of the CSSI, and must be approved by the EPA and submitted to the Planning Secretary for information at least one year prior to the commencement of operation of Stage 1 of the CSSI.</p> <p>Note: 1. Part C-B of Schedule 2 of this approval provides additional water quality assessment and monitoring requirements that must be met. 2. The WQMP and monitoring program to assess wet weather infiltration into the sewer network must be provided to the Planning Secretary and/or the EPA upon request. 3. The WQMP and monitoring program to assess wet weather infiltration into the sewer network are required to be updated on an ongoing basis throughout operation of Stage 1 of the CSSI.</p>	Construction/ Operation	X			Y	N	N	N	

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E123	Water	Surface water drainage on the AWRC site as part of Stage 1 of the CSSI must be designed, constructed and operated to achieve compliance with the NSW Government Wianamatta South Creek waterway health objectives and construction and operational phase stormwater management targets, in accordance with the Wianamatta MUSIC modelling toolkit and Technical Guidance for Achieving Wianamatta South Creek Stormwater Management Targets (DPE, 2022).	Construction/ Operation	X	X		N	Y	?	N	
E124	Water	If construction stage stormwater discharges are proposed, a Water Pollution Impact Assessment will be required to inform licensing consistent with section 45 of the POEO Act. Any such assessment must be prepared in consultation with the EPA and be consistent with the National Water Quality Guidelines, with a level of detail commensurate with the potential water pollution risk.	Construction	X			N	Y	N	N	
E125	Water	The Proponent must undertake further hydrological and hydraulic modelling for the AWRC site based on the detailed design of Stage 1 of the CSSI to determine the ability of the receiving stormwater drainage systems to effectively convey pavement drainage from Stage 1 of the CSSI where it is proposed to discharge these flows to council or Sydney Water receiving stormwater drainage systems. The modelling must be undertaken in consultation with the relevant council(s) and the outcomes documented in the Stormwater Drainage Report required under Condition E126.	Construction	NA			N/A	N/A	N/A	N/A	No receiving existing stormwater drainage systems on the AWRC site
E126	Water	<p>The Stormwater Drainage Report must be prepared at least one month prior to the commencement of any new permanent drainage Works, modifications or connections to existing drainage Works, construction of hard surfaces that are associated with the operation of the project and would result in runoff to existing council or Sydney Water stormwater drainage systems. The Stormwater Drainage Report must:</p> <p>(a) assess the potential impacts of pavement drainage discharges from Stage 1 of the CSSI drainage systems on the receiving environment and capacity of council(s) or Sydney Water’s drainage infrastructure;</p> <p>(b) identify all mitigation measures to be implemented where pavement drainage from Stage 1 of the CSSI drainage systems are predicted to adversely impact on the receiving environment or capacity of council or Sydney Water drainage infrastructure; and</p> <p>(c) set out a clear time frame for the implementation of mitigation measures.</p> <p>Nothing in this condition prevents the Proponent from preparing separate Stormwater Drainage Reports for pavement discharges to the drainage system provided that each report is prepared at least one month prior to the subject Works/discharges commencing.</p>	Construction	X			N	Y	N	N	
E127	Water	<p>All new or modified drainage systems associated with Stage 1 of the CSSI must be designed to:</p> <p>(a) where they connect with council(s) or Sydney Water drainage system, meet the capacity constraints to receive and convey the proposed flows from Stage 1 of the CSSI, or otherwise upgrade council(s) or Sydney Water drainage system at the Proponent’s expense, in consultation with the relevant council(s);</p> <p>(b) minimise impacts on the receiving environment at the final outflow point resulting from any additional flow volume (including, but not limited to scour, flooding, water quality impacts, and impacts on riparian vegetation, aquatic ecology and property); and</p> <p>(c) ensure mitigation measures are implemented where increased flows through cross drainage systems adversely impact on council or Sydney Water drainage infrastructure and the receiving environment.</p>	Construction	X			N	Y	Y	N	
E128	Water	Prior to the commencement of operation of Stage 1 of the CSSI, the Proponent must submit a report to the Planning Secretary, the EPA and EHG for information, that provides an update on the status of implementing any proposed stormwater harvesting system(s) across the Western Sydney Parkland City that connect to the AWRC.	Operation	X	X		Y	N	N	N	
E129	Aviation safeguarding	<p>The Proponent must consider the provisions of the Airports (Protection of Airspace) Regulation 1996 for any intrusions into prescribed airspace, including:</p> <p>(a) constructing permanent structures, such as buildings, into the protected airspace;</p> <p>(b) temporary structures such as cranes protruding into the protected airspace; or</p> <p>(c) activities causing non-structural intrusions into the protected airspace, such as air turbulence from stacks or vents, smoke, dust, steam or other gases or particulate matter.</p> <p>If any of the above components result in an impact on protected airspace, then approval is required in accordance with the Airports Act 1996 and the Airports (Protection of Airspace) Regulation 1996.</p>	Construction/ Operation	X	X		N	Y	Y	y	
E130	Aviation safeguarding	<p>Prior to the commencement of operation of Stage 1 of the CSSI, the Proponent must prepare a Wildlife Management Plan to identify the project’s contribution to increased risk of wildlife strikes by aircraft. The Wildlife Management Plan must include:</p> <p>(a) wildlife monitoring surveys and regular wildlife hazard assessments;</p> <p>(b) wildlife awareness and management training for operational staff;</p> <p>(c) implementation of activities to reduce hazardous bird populations;</p> <p>(d) adoption of wildlife deterrent technologies to reduce hazardous bird populations;</p> <p>(e) performance indicators to evaluate implementation and compliance;</p> <p>(f) a review process to regularly assess implementation against performance indicators, identify gaps, and ensure currency; and</p> <p>(g) roles and responsibilities for plan implementation and review.</p> <p>The Wildlife Management Plan must be submitted to the Planning Secretary, Western Sydney Airport and DPI Agriculture for information prior to the commencement of operation of Stage 1 of the CSSI, and be implemented throughout operation.</p>	Operation	X			N	Y	N	y	
E131	E-Flows pipeline	<p>Prior to the commencement of operation of Stage 1 of the CSSI, the Proponent must provide the Planning Secretary for information, a report outlining the Proponent’s current position about construction of the environmental flows pipeline and Warragamba River release outlet identified in the documents listed in Condition A1. The report must consider:</p> <p>(a) advice provided by relevant government agencies;</p> <p>(b) population growth in the AWRC servicing area;</p> <p>(c) implementation of any recycled water scheme(s);</p> <p>(d) the Greater Sydney Water Strategy and relevant water sharing plan(s); and</p> <p>(e) outcomes of consultation with the NSW Government’s environmental flows working group on details of the optimal treated water release location and approach for environmental flows.</p>	NA				n/a	n/a	n/a		Deleted in MOD1

Condition	Header/ Aspect	FINAL Condition	Phase		Staging Stage 1 (later stage)	Stage 2	Responsibility				Staging Justification/ Other Comments
							SWC	AWRC contractor	Pipeline Contractor	O&M	
E132	World and National Heritage	The Proponent must prepare a World Heritage Monitoring Program (WHMP) to verify whether potential impacts on the Greater Blue Mountains Area World Heritage property and National Heritage place during Stage 1 of the CSSI are in accordance with impacts assessed in the documents listed in Condition A1. The WHMP must be prepared in consultation with EHG and submitted to the Planning Secretary and EHG for information prior to the commencement of operation of Stage 1 of the CSSI. The WHMP must include, but not necessarily limited to: (a) baseline and post-commissioning monitoring of representative attributes that: (i)contribute to the Outstanding Universal Value (OUV) of the Greater Blue Mountains Area; and (ii)are identified in the documents listed in Condition A1 as potentially impacted during Stage 1 of the CSSI; (b) relevant water quality monitoring data; and (c) photos at each monitoring point.	Construction/ Operation	X	X		Y	N	N		
E133	World and National Heritage	Within twelve months after the commencement of operation of Stage 1 of the CSSI, and every year thereafter, unless otherwise agreed by the Planning Secretary, the Proponent must prepare an annual World Heritage monitoring report. The World Heritage monitoring report must include, but not necessarily limited to: (a) analysis of results from the WHMP under Condition E132, including verifying whether potential impacts are as predicted in the documents listed in Condition A1; (b) mitigation measures proposed, where the WHMP under Condition E132 identifies an impact on the Blue Mountains World Heritage Property and National Heritage place, that is attributable to the project and exceeds the impacts described in the documents listed in Condition A1; (c) effectiveness of mitigation measures implemented, and any necessary additional mitigation measures; and (d) any corrective actions that may be required and/or have been employed. The World Heritage monitoring report must be provided to EHG for information within one month of completion of each annual report.	Operation	X	X		Y	N	N		
E134	World and National Heritage	No Work within Blue Mountains National Park (part of the Greater Blue Mountains Area) is to occur as part of Stage 1 of the CSSI (such as for investigations, monitoring or temporary construction compounds), unless authorisation is granted by the NSW National Parks and Wildlife Service under the National Parks and Wildlife Act 1974 (NPW Act) or the National Parks and Wildlife Regulation 2019.	Construction	X			Y	N	Y		
E135	Hazards and Risk	At least one month prior to the commencement of construction of the AWRC development (except for construction of those works that are outside the scope of the hazard studies), or within such further period as the Planning Secretary may agree, the Proponent must prepare and submit to the Planning Secretary the studies set out under subsections (a) to (b) below (the pre-construction studies). Construction, other than of works, must not commence until recommendations have been considered and, where appropriate, acted upon. With respect to the Fire Safety Study, the study must meet the requirements of Fire and Rescue NSW. (a) a Final Hazard Analysis of the AWRC development, prepared generally consistent with the Department’s Hazardous Industry Planning Advisory Paper No. 6, ‘Hazard Analysis’ and Multi-Level Risk Assessment. The Final Hazard Analysis must: (i) include a final site layout including dangerous goods storage locations; (ii) provide verification to Australian Standards for the storage and handling of the dangerous goods stored on the AWRC site including, but not limited to: · flammable dangerous goods (Class 3); and · corrosive liquids (Class 8). The verification should be focused on key elements such as separation distances described in the relevant standard and critical controls. (b) A Fire Safety Study for the AWRC development. This study must cover the relevant aspects of the Department’s Hazardous Industry Planning Advisory Paper No. 2, ‘Fire Safety Study Guidelines’ and the New South Wales Government’s Best Practice Guidelines for Contaminated Water Retention and Treatment Systems (NSW HMPCC, 1994). The study must meet the requirements of Fire and Rescue NSW.	Construction	X			N	Y	N	N	
E136	Hazards and Risk	The Proponent must develop and implement the plans and systems set out under subsections (a) to (c) below, no later than two months prior to the commencement of the commissioning of the AWRC development, or within such further period as agreed with the Planning Secretary. (a) arrangements covering the transport of dangerous goods including details of routes to be used for the movement of vehicles carrying dangerous goods to the AWRC development. The routes must be selected in accordance with the Department’s Hazardous Industry Planning Advisory Paper No. 11, ‘Route Selection’. Suitable routes identified in the study must be used except where departures are necessary for local deliveries or emergencies; (b) a comprehensive Emergency Plan and detailed emergency procedures for the AWRC development. The Emergency Plan must include consideration of the safety of all people outside of the AWRC development who may be at risk from the AWRC development. The plan must be prepared in accordance with the Department’s Hazardous Industry Planning Advisory Paper No. 1, ‘Emergency Planning’; (c) a document setting out a comprehensive Safety Management System, covering all on-site operations and associated transport activities involving hazardous materials. The document must clearly specify all safety related procedures, responsibilities and policies, along with details of mechanisms for ensuring adherence to the procedures. Records must be kept on-site and must be available for inspection by the Planning Secretary upon request. The Safety Management System must be developed in accordance with the Department’s Hazardous Industry Planning Advisory Paper No. 9, ‘Safety Management’. This document is not required if the Proponent has a certified Safety Management System (SMS) or equivalent as agreed with the Planning Secretary, and demonstrates, to the satisfaction of the Planning Secretary, that the certified SMS or equivalent addresses these requirements.	Construction	X			N	Y	N	N	
E137	Hazards and Risk	Within twelve months after the commencement of operation of Stage 1 of the CSSI, and every five years thereafter, or at such intervals as the Planning Secretary may agree, the Proponent must carry out a comprehensive Hazard Audit in accordance with the Department’s Hazardous Industry Planning Advisory Paper No. 5 ‘Hazard Audit Guidelines’ of the AWRC development. The Hazard Audit must be carried out at the Proponent’s expense by a qualified person or team, who have been approved by the Planning Secretary and are independent of the development.	Operation	X	X		Y	y	N	y	