

Review of Environmental Factors

Addendum

Mamre Road Precinct – Construction compounds and Stage 2 SP1222 Pressure Main

1 Determination

This Review of Environmental Factors Addendum (REFA) assesses potential environmental impacts of Mamre Road Precinct – Construction compounds and Stage 2 SP1222 Pressure Main proposal and was prepared under Division 5.1 of the *Environmental Planning and Assessment Act 1979* (EP&A Act), with Sydney Water both the proponent and determining authority.

The Sydney Water Project Manager is accountable to ensure the proposal is carried out as described in this REFA and the Mamre Road Precinct – Wastewater Network Review of Environmental Factors 2021 (approved REF). Additional environmental impact assessment may be required if the scope of work or work methods described in this REFA change significantly following determination.

Decision Statement

During construction, the main potential environmental impacts of the proposal change are typical construction impacts such as soil erosion, noise and visual amenity. The proposal will not be carried out in a declared area of outstanding biodiversity value and is not likely to significantly affect threatened species, populations or ecological communities, or their habitats. Accordingly, a Species Impact Statement (SIS) or Biodiversity Development Assessment Report (BDAR) is not required.

Given the nature, scale and extent of impacts and implementation of the safeguards outlined in both this REFA and the approved REF, the proposed work is unlikely to have a significant impact on the environment. Accordingly, we do not require an Environmental Impact Statement (EIS) and the proposal may proceed.

Certification

I certify that I have reviewed and endorsed the contents of this REFA document, and, to the best of my knowledge, it is in accordance with the EP&A Act and the Environmental Planning and Assessment Regulations (EP&A Regulation). The proposal has been considered against matters listed in section 171 (Appendix A) and the Guidelines approved under section 170 of the EP&A Regulation and the information it contains is neither false nor misleading.

Prepared by:	Reviewed by:	Endorsed by:	Approved by:
Deana Filipas REFA author Sydney Water Date: 20/9/2023	Samantha Prior Senior Environmental Scientist Sydney Water Date: 20/9/2023	Pramit Thapa Project Manager Sydney Water Date: 17/11/23	Jill Berwick A/Environment & Heritage Manager Sydney Water Date: 27/11/23

2 Proposal Summary

Aspect	Detailed description
Proposal location	<p>The approved proposal is located within the Mamre Road Precinct in the Penrith City Council Local Government Area (LGA). The majority of the wastewater network is located along Mamre Road, the USC AWRC access road, and adjacent private properties in Kemps Creek, NSW.</p> <p>SP1221 is located within 771 Mamre Road (Lot 23, DP 258414), whilst SP1222 is located within 258 Clifton Avenue (Lot 9, DP812284) (adjacent to Mamre Road). Mamre Road is classified as a state road managed by TfNSW. The USC AWRC is a local road managed by Penrith City Council.</p> <p>This proposal change is located within the same lots as SP1221 and SP1222 and along Clifton Avenue which is a local road managed by Penrith City Council.</p>
Approved REF	Mamre Road Precinct - Wastewater Network Review of Environmental Factors (November 2021).
Proposal scope	<p>The proposal will involve the construction and operation of a new wastewater network to service the Mamre Road Precinct in Kemps Creek, NSW. The network will consist of the following key assets:</p> <ul style="list-style-type: none">• two new wastewater pumping stations (SP1221 and SP1222) located off Mamre Road• about 1.5km of pressure pipeline (DN355 PE) from SP1221 which then gravitates to SP1222 via a gravity pipeline (DN450 GRP) for 1.5km• gravity pipelines that connect the local precinct reticulation to the pumping stations:<ul style="list-style-type: none">○ Gravity Carrier L1 – DN300 GRP pipeline x 645 m○ Gravity Carrier L2 – DN375 GRP pipeline x 876 m○ Gravity Carrier L3 – DN450 GRP pipeline x 1.5 km○ Gravity Carrier L4 – DN225 PVC pipeline x 580 m.
Proposal change	<p>Additional sections of wastewater pressure pipelines (Stage 2) are required to connect SP1222 to the Upper South Creek (USC) Advanced Water Recycling Centre (AWRC) and will include:</p> <ul style="list-style-type: none">• about 37 m of DN300 and DN450 duplicate pressure pipeline between SP1222 and the start of the Western Sydney Aerotropolis Growth Area (WSAGA) 7 Horizontal Directional Drill (HDD).• about 171 m of DN450 pressure pipeline from the end of the WSAGA 7 HDD on Clifton Avenue, along Clifton Avenue to the Upper South Creek (USC) Advanced Water Recycling Centre (AWRC) access road.



The Stage 2 pressure pipeline works are shown in Figures 1 and 2.

A site office and main compound are required on the land adjacent to SP1222, and a smaller compound is required at SP1221 (see Figures 3, 4, 5 and 6). The site office and compounds will facilitate the proposed construction work at the pumping stations and were not included in the approved REF. The temporary compounds and site offices are required for the duration of the work and will be decommissioned/removed at the end of project.

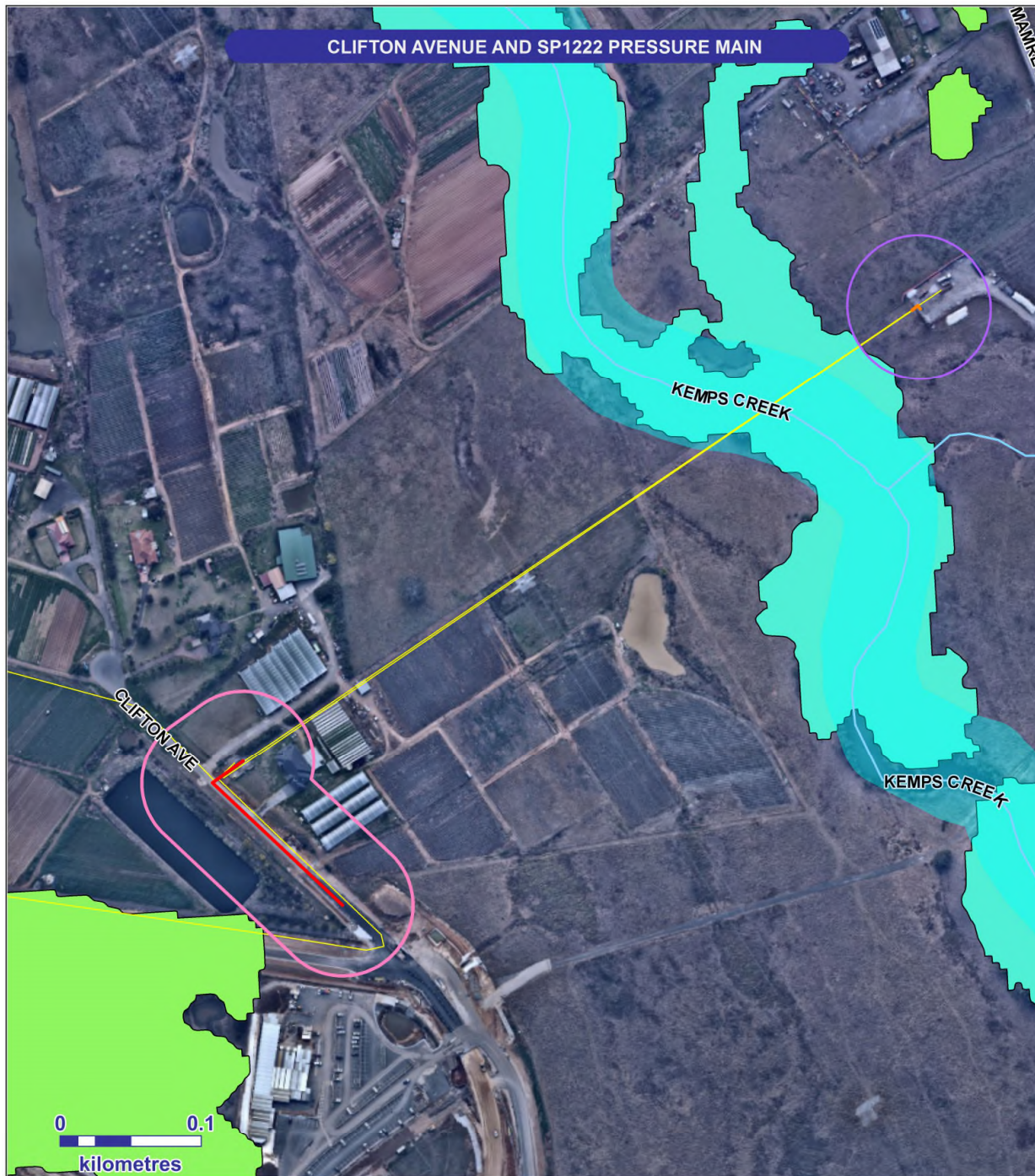
The 3.5 km of pressure pipeline between SP1221 and Ropes Creek carrier is no longer required and has been removed from the overall scope (see Figures 3-2, 3-3 and 3-4 of approved REF).

**Justification for
proposal change**

Additional pipelines: At the time the approved REF was written the alignment of the pressure pipeline connecting SP1222 with the USC AWRC was unknown. The design of this alignment has since been completed and is assessed in this REFA. Without this connection, wastewater cannot be pumped from SP1221 or SP1222 to the USC AWRC and the Mamre Road Precinct will have an incomplete wastewater system.

Compounds: The location and size of construction compounds was unknown at the time the approved REF was written. Detailed design and construction planning has highlighted the need for two compounds adjacent to SP1222 and SP1221. The compounds will provide designated site offices for the coordination and administration of the proposed works while also providing a designated area for storing equipment, materials and machinery, and ensuring they are readily accessible as required.

Removed pipelines from scope: Due to the staging of development within the Mamre Road Precinct and construction timing of this proposal and the USC AWRC, temporary pumping of wastewater out of the precinct via the Ropes Creek Carrier to St Marys Water Resource Recovery Facility (WRRF) is no longer required. The proposed wastewater system will pump wastewater out of the precinct to the USC AWRC. This has resulted in the removal of about 3.5km of pressure pipeline between SP1221 and Ropes Creek carrier from the scope.



Legend

- Clifton Avenue alignment
- Clifton Avenue alignment buffer
- SP1222 Pressure main location
- SP1222 Pressure main buffer
- Mamre Road Pipelines (Delivered by others)

Threatened Ecological Community

- Castlereagh Ironbark Forest
- Cumberland Red Gum Riverflat Forest
- Key fish habitat

Environmental issues present over the entire proposal area:
 Salinity hazard - areas of localised hazard
 Bushfire prone land - Category 2
 SEPP (Biodiversity and Conservation) 19
 Water Sharing Plan Groundwater 603

Copyright © 2023
 Sydney Water
 NSW Department of Planning, Industry & Environment
 NSW Spatial Services
 Australian Government Department of Environment

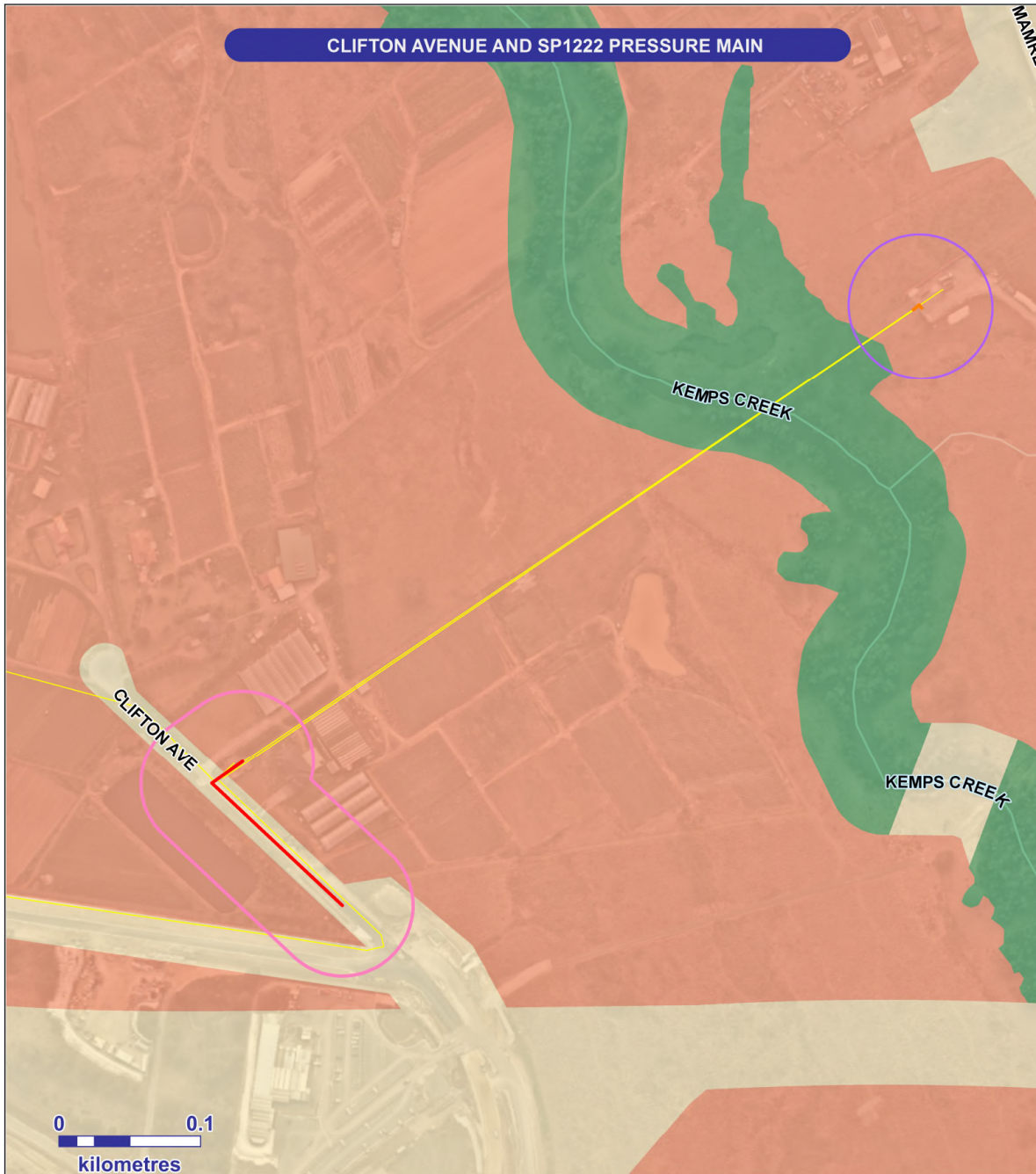
Date Created: 13/09/2023

Sydney
WATER



Figure 1 Mamre Road Stage 2 pressure main – environmental constraints

Review of Environmental Factors Addendum | Mamre Road Precinct – Construction compounds and Stage 2 SP1222 Pressure Main, September 2023



Legend

- Clifton Avenue alignment
- Clifton Avenue alignment buffer
- SP1222 Pressure main location
- SP1222 Pressure main buffer
- Mamre Road Pipelines
(Delivered by others)

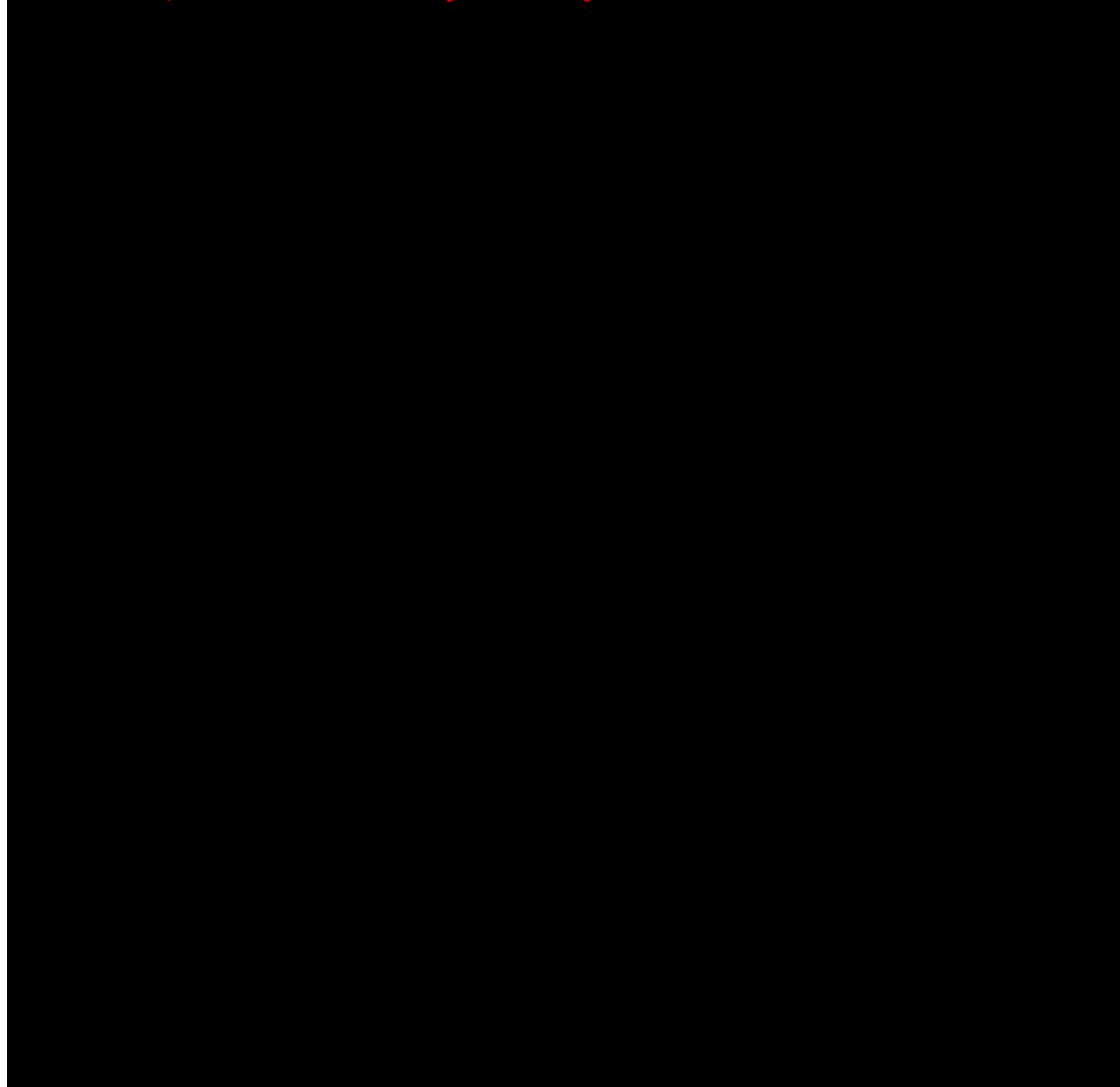
CPCP Land Category

- Avoided land
- Certified - urban capable land
- Excluded land



Figure 2 Mamre Road Stage 2 pressure main – CPCP land category

Redacted to protect sensitive Aboriginal heritage information



Legend



SP1221



Proposed compound location



Aboriginal heritage item approximate location



AHIMS

Threatened species



Flora



Fauna



Waterways

Threatened Ecological Community



Castlereagh Ironbark Forest



Cumberland Red Gum Riverflat Forest

Environmental issues present over the entire map area:
Salinity hazard - areas of localised hazard
Bushfire prone land - Category 2
SEPP (Biodiversity and Conservation) 19
Water Sharing Plan Groundwater 603



Figure 3 Project office and main compound at SP1221 – environmental constraints

Redacted to protect sensitive Aboriginal heritage information

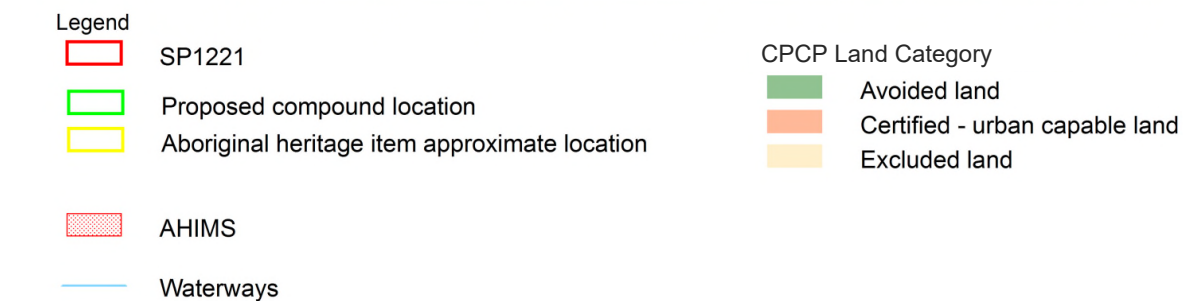


Figure 4 Project office and main compound at SP1221 – CPCP land category



Legend

- SP1222
- Proposed compound location
- Mamre Road Pipelines (Delivered by others)
- SP1222 Pressure main location

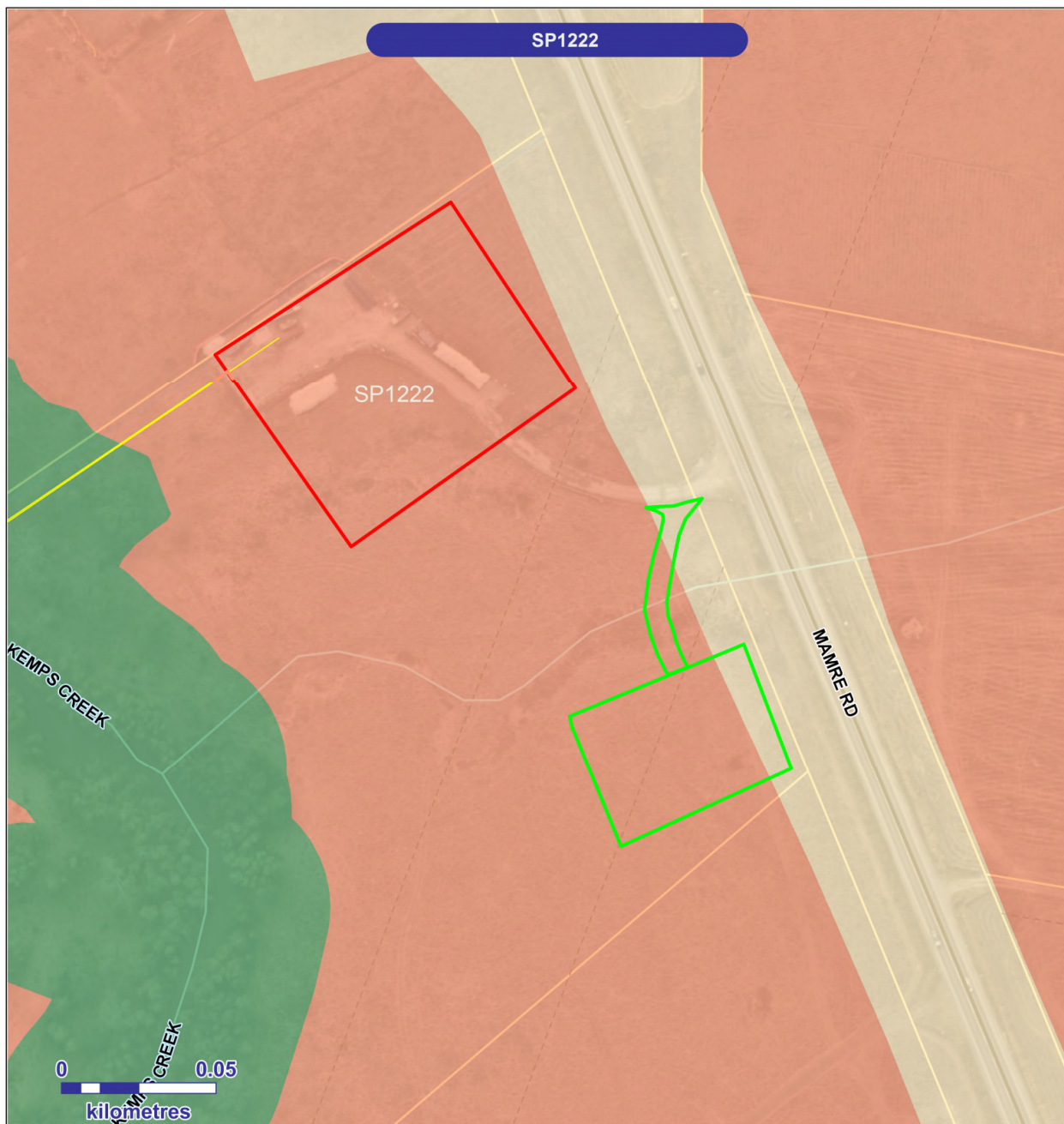
Threatened Ecological Communities

- Castlereagh Ironbark Forest
- Cumberland Red Gum Riverflat Forest

- Key fish habitat
- Waterways

Environmental issues present over the entire proposal area:
 Salinity hazard - areas of localised hazard
 Bushfire prone land - Category 2
 SEPP (Biodiversity and Conservation) 2021
 Water Sharing Plan Groundwater 603

Figure 5 Project office and main compound at SP1222 – environmental constraints



Legend



SP1222



Proposed compound location



Mamre Road Pipelines (Delivered by others)



SP1222 Pressure main location



Waterways

CPCP Land Category



Avoided land



Certified - urban capable land



Excluded land

Figure 6 Project office and main compound at SP1222 – CPCP Land Category

3 Consultation

Sydney Water must consult with councils and other authorities for work in sensitive locations or where the work may impact other agencies infrastructure or land (specified in Part 2.2 Division 1 of the State Environmental Planning Policy (Transport and Infrastructure) 2021 (TISEPP)).

Consultation is required under section 2.10(1(f)) of the TISEPP as the proposal involves excavation of a council managed road. The delivery contractor is required to consult with Penrith City Council in accordance with this clause. Further detail is provided in Appendix B of the Approved REF.

Written notification to the Planning Secretary is required under section 201A of the *Environmental Planning and Assessment Regulation 2021* if the proposal is on avoided land within the Cumberland Plain Conservation Plan area. The proposal does not involve any work within avoided land within the CPCP area (see Figures 2, 4 and 6). As such, no written notification to the Planning Secretary is required.

4 Legislative consideration

The additional legislative requirements above those already assessed in the approved REF are presented in the table below.

Section 2.126 of the TISEPP permits development by or on behalf of a public authority for sewerage reticulation systems without consent on any land. Construction compounds are considered as part of sewerage reticulation systems under Section 2.126 of the TISEPP because they serve a vital role in managing and facilitating the construction and maintenance of sewerage infrastructure.

The proposal change is required to facilitate development for the purpose of a sewerage reticulation system in land zonings including RU2 Rural Landscape, ENZ Environment and Recreation, IN1 General Industrial, SP2 Infrastructure, and RE1 Publication Recreation. The proposal is by Sydney Water (a public authority) and is permissible without consent according to Section 2.126 of the TISEPP.

Accordingly, this REF addendum has been assessed under Division 5.1 of the EP&A Act and Sydney Water can self-determine the project.

Legislation	Additional considerations
<i>Protection of the Environment Operations (POEO) Act 1997</i>	<p>The POEO Act aims to, among other matters, protect, restore and enhance the quality of the environment in NSW. It includes offences for polluting the environment and establishes a regime of environment protection licences.</p> <p>The proposal will no longer connect to the St Marys wastewater network operated under Environment Protection Licence (EPL) 1729. The proposal will only convey wastewater to the USC AWRC. Operation of the USC AWRC and associated network is a scheduled activity (premises-based) that requires an EPL under section 48 of the POEO Act.</p> <p>Until the above EPL is established a scheduled development work licence under s47 of the POEO Act will be required for construction of this proposal. The scheduled activity licence to operate and commission the AWRC (once obtained) will be varied to incorporate the network assets in this proposal, forming the USC system EPL. The Delivery Contractor will obtain the scheduled development work EPL for construction.</p> <p>There is a requirement under Part 5.7 of the Act to immediately report any pollution incidents to the relevant authority where material harm to the environment is caused</p>

or threatened. The definition of material harm and the relevant authorities are identified in Part 5.7 of the Act.

The Delivery Contractor is responsible for immediately reporting such incidents in accordance with SWEMS0009 Responding to incidents with an environmental impact.

National Parks and Wildlife (NPW) Act 1974

This Act provides for the establishment, preservation, and management of areas such as national parks, state conservation areas, nature reserves, and Aboriginal areas. This Act also provides for the protection of Aboriginal heritage, including Aboriginal objects and places.

The proposal is not within National Parks, State Conservation areas or nature reserves. An Aboriginal Archaeological Due Diligence survey (Appendix C) confirmed that provided the safeguards are implemented, impacts to Aboriginal Heritage would be avoided and an Aboriginal Heritage Impact Permit (AHIP) under the Act would not be required.

SEPP (Biodiversity and Conservation) 2021 (BC SEPP)

The work is within the Cumberland Plain Conservation Plan (CPCP) area on land mapped as certified – urban capable and excluded land. As the proposal is not on avoided land, the notification and reporting requirements in section 201A of the Environmental Planning and Assessment Amendment (Avoided Land) Regulation 2022 do not apply. No vegetation removal is required on avoided land.

Water Act 1912/ Water Management Act 2000

Section 60A of the Water Management Act states that it is an offence to take water without a licence.

A Water Access Licence is required under section 61 where groundwater extraction will be greater than 3 ML. A Water Supply Work (WSW) approval is required under Section 90(2) for all activities that involve dewatering groundwater (e.g. dewatering an excavation such as a trench, or HDD), irrespective of volume. We do not expect to dewater >3ML during construction however some dewatering will be conducted, as such a WSW approval is required.

There has been a consolidation of the State Environmental Planning Policy's (SEPP) since the approved REF was determined, these changes are outlined in the table below.

Repealed SEPP	In force SEPP	Updated SEPP reference
SEPP (Infrastructure) 2007 (ISEPP)	SEPP (Transport and Infrastructure) 2021 (TISEPP)	Section 2.126(6) of the TISEPP permits development for sewerage reticulation systems to be carried out without consent on any land in the prescribed circumstances. The proposal involves development of a sewerage reticulation system carried out by Sydney Water (a public authority). As such, the proposal is permissible without consent.
SEPP (Vegetation in Non-Rural Areas) 2017	SEPP (Biodiversity and Conservation) 2021 (BC SEPP)	Chapter 2 of the BC SEPP aims to regulate clearing of native vegetation on urban land and land zoned for environmental conversation/management that does not require development consent. Vegetation in Non-Rural Areas applies to Penrith LGA as listed under subsection 2.3(1)(a) and within the zones listed in subsection 2.3(1)(b)

of this SEPP. However, Section 2.4(1) states: '*This Chapter does not affect the provisions of any other SEPP....*'. As the works are permissible under the TISEPP a Council permit to clear vegetation under this SEPP is not required.

State Environmental Planning Policy (Western Sydney Aerotropolis) 2020 (Aerotropolis SEPP)	State Environmental Planning Policy (Precincts—Western Parkland City) 2021	The proposal is in land to which Chapter 4 of this SEPP applies. The proposal is on land zoned RU2 Rural Landscape, ENZ Environment and Recreation, IN1 General Industrial, SP2 Infrastructure, and RE1 Publication Recreation. As per Subsection 4.5, the provisions of the SEPP (Infrastructure) 2007 (now TISEPP) still apply as the proposal does not meet the modifications noted in that clause. Therefore, the proposal can be undertaken without development consent. No vegetation removal is required in areas mapped as 'existing native vegetation' on the High Biodiversity Value Areas Map under section 4.25A of the SEPP. Written notice to the Planning Secretary is not required.
--	--	---

SEPP (Western Sydney Employment Area) 2009 (WSEA SEPP)	State Environmental Planning Policy (Industry and Employment) 2021	The proposal is located on land subject to this SEPP. Subsection 2.32(1) clarifies that, 'This Chapter does not restrict or prohibit, or enable the restriction or prohibition of, the carrying out of any development, by or on behalf of a public authority, that is permitted to be carried out without consent, or that is exempt development, under the State Environmental Planning Policy (Infrastructure) 2007 (now known as TISEPP).' Given that the proposed works align with the provisions of the TISEPP development consent is not required.
--	--	---

5 Additional environmental impacts

The table below lists the environmental impacts that could result from the proposed change compared to the approved REF. The environmental constraints of the proposal are also showing in Figures 1-3. All other environmental impacts and mitigation measures identified in the approved REF remain the same and will be incorporated into the Contractor's CEMP.

Aspect	Additional impacts
Topography, geology and soils	<p>Construction of the pressure pipeline will require excavation and ground disturbance which could result in potential offsite erosion and sedimentation of surrounding land and waterways. Typical trench dimensions will be up to about 2.5 m deep (from the finished surface level) and up to 1.5 m wide.</p> <p>Ground disturbance for the construction compounds is likely to be minimal. The above ground works are within an area of moderate potential salinity risk. Inappropriate management of saline soils has the potential to impact surrounding land and waterways from off-site leaching of saline soils.</p> <p>The proposed changes can be managed using the environmental mitigation measures specified in the approved REF.</p>

Water and drainage

There is an unnamed drainage line located south of the proposed location of SP1222. This drainage line, which is currently dry, leads into Kemps Creek, which is listed as key fish habitat. In order to access the compound from Mamre Road, construction vehicles would need to cross the mapped unnamed drainage line. However, due to the ephemeral nature of the drainage line and the high level of disturbance to the drainage line and surrounding areas, it is unlikely to be affected by the construction activities and access to and from the site.

Geotechnical investigations along Clifton Avenue encountered groundwater at 1.8m bgl. As the excavation for the pressure pipeline will be between about 1.3 m up to about 2.5 m deep, from the finished surface level, it is likely that groundwater will be encountered during construction of the pressure pipeline and will require dewatering from excavations. The anticipated groundwater extraction for the entire project as originally estimated remains below 3ML. As such, a WSW approval is required but a Water Access Licence is not.

The construction compounds are not anticipated to encounter, or impact, groundwater.

The proposed changes can be managed using the environmental mitigation measures specified in the approved REF.

Flora and fauna

No additional vegetation removal, from what is described in the approved REF is anticipated. The Stage 2 pressure main is primarily located within the unvegetated road corridor of Clifton Avenue.

Exotic grasses will be impacted at the compound sites. Any groundcover impacted will be reinstated upon restoration of the compound sites.

The proposed changes can be managed using the environmental mitigation measures specified in the approved REF.

Heritage

An Aboriginal heritage due diligence consistency assessment (AHDD CA) of the proposed compound locations was completed by Kelleher Nightingale Consultants (Appendix C).

Redacted to protect sensitive Aboriginal heritage information

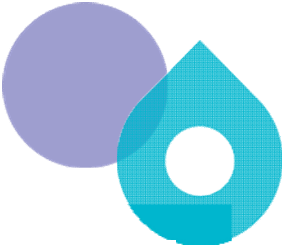

There are no known Aboriginal Heritage items within 200 m of the Stage 2 pressure main, and the area is not located within a high-risk landscape. The works are located on land that has been previously disturbed, mostly within an existing road corridor. It is unlikely that any unknown Aboriginal heritage items will be encountered during the work.

There are no non-Aboriginal heritage items located within 200 m of the proposed Stage 2 work and proposed construction compounds. No impacts to non-Aboriginal heritage items are anticipated by the proposed work.

The proposed changes can be managed using the environmental mitigation measures specified in the approved REF and the additional mitigation measures in Section 6.

Noise and vibration

Open trenching of the pressure pipeline will increase construction noise levels and vibration along Clifton Avenue. The nearest sensitive receivers are 235 and 258 Clifton Ave. As the



pipeline construction moves further away from a receiver, the predicted construction noise impact would reduce. Works will be conducted during standard construction hours and potential impacts will be short-term due to the linear nature of the works, and minimised by implementing the safeguards listed in the approved REF.

The nearest residential receiver to the proposed compound at SP1222, is located over 300 m south of the site. The nearest residential receiver to the proposed compound at SP1221 is also located over 250 m south of the site. Any noise impacts generated by the work would be minimised according to the safeguards in the approved REF. The construction compounds are temporary and there will be no operational noise or vibration impacts.

The proposed changes can be managed using the environmental mitigation measures specified in the approved REF.

Waste and hazardous materials

The proposed trenching of the pressure pipeline will increase the volume of excavated road material and excess spoil from excavation. A Detailed Site Investigation (DSI) (2023) was completed for the study area. Soil samples were analysed for heavy metals, polycyclic aromatic hydrocarbons, total petroleum/recoverable hydrocarbons, benzene, toluene, ethylbenzene; and xylene, polycyclic aromatic hydrocarbons and organochlorine/organophosphate pesticides. Selected samples were also analysed for asbestos containing material. Hazards to human and ecological health from the proposal are considered to be low. The DSI did not identify and complete source pathway receptor linkages. Meaning that there is no complete pathway to environmental receptors to be affected by contaminants.

Soil analytical results collected as part of the DSI were screened against threshold values from the NSW EPA Waste Classification Guidelines (2014) to establish an indicative waste classification for likely excavated materials during construction. Based on the soil testing conducted, the natural soil analysed may meet the definitions of ENM and could potentially be beneficially re-used on site or elsewhere. Additional samples are required to meet the densities in the ENM Resource Recovery Order. If the soils do not meet the ENM classification, the soils are classified as General Solid Waste – non-putrescible.

The proposal has removed 3.5km of pipeline including the HDD along Bakers Lane, therefore, there will be a reduction in waste drill cuttings and drilling fluids and spoil generated overall.

The proposed changes can be managed using the environmental mitigation measures specified in the approved REF.

Traffic and access

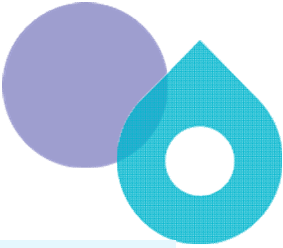

Partial road closures may be required during the establishment of the construction compounds and the Stage 2 work on Clifton Avenue. This work is expected to be temporary and appropriate traffic control measures will be implemented.

Any valves and scours will be in accessible locations that allow for their safe operation and to minimise disruption to the traffic and community.

The proposed changes can be managed using the environmental mitigation measures specified in the approved REF.

Social and visual

During construction there will be two additional construction compounds adjacent to SP1221 and SP1222. The compounds would be visible from Mamre Road for the duration of the work. Following completion of construction, site areas would be restored to before construction levels, or better. The pressure main will be entirely underground and will not be visible.



The proposed changes can be managed using the environmental mitigation measures specified in the approved REF.

Cumulative and future trends

The proposed change is unlikely to increase the cumulative impacts assessed in the approved REF given the overall reduction in pipeline construction required.

Future trends such as climate change were considered. Factors such as bushfires, flooding, extreme heat and extreme storm events that could impact the proposal were considered. The proposal is unlikely to further exacerbate future trends as the proposed pressure main is below ground.

The proposed changes can be managed using the environmental mitigation measures specified in the approved REF.

6 Additional mitigation measures

Additional mitigation measures

The Contractor must obtain a Scheduled Development Work Licence prior to construction of the proposal from the EPA. The approved REF and REFA must be submitted to the EPA as part of the application.

A Water Supply Work Approval is required for all activities that involve dewatering of groundwater. The volume of dewatered groundwater would be monitored across the proposal area and a Water Access Licence sought if the dewatering volume will exceed 3ML.

The access road to the compound at SP1221 will require the establishment of ground protection (eg mats) over the shallow unnamed ephemeral creek adjacent to the compound, to prevent soil erosion and damage.

Impacts to the isolated artefact at UTM 294453 6253645 (See Figure 2 and Appendix C) must be avoided. The location of the isolated artefact must be identified/located by an Aboriginal heritage specialist (or delegate) and appropriate fencing must be established (min fenced area 1m²) around the item to protect it from harm, before work on the site starts. The location of the item must be shown as a no-go area within the Construction Environmental Management Plan (CEMP).

All site personnel must be inducted/instructed to avoid the no go area. The induction should include clear explanation of heritage constraints, go and no-go areas, measures to avoid impacts, stop work procedures, and contact details to obtain further heritage guidance if needed.

Access to the proposed compounds will be clearly delineated in the Site Environmental Plan/Construction Environmental Management Plan (CEMP) for the project. The access should be designated to ensure a well-defined and secure access to the site, aligning with safety standards and to minimising potential disruptions.

7 Conclusion

This REFA outlines potential environmental impacts associated with the Stage 2 pressure main works and the addition of two construction compounds/project offices as part of the Mamre Road Precinct – Wastewater Network proposal. Any additional environmental impacts are considered minor and potential impacts can be mitigated through implementation of the measures outlined in this addendum and the approved REF. The proposed works are not likely to significantly impact the environment.

Appendix A – Section 171 checklist

Requirements in addition to the approved REF are considered in the table below.

Section 171 checklist	REF finding
Any environmental impact on a community	There may be short-term impacts on the community from partial road closures, traffic, noise and dust. However, there will be environmental improvements by providing a reliable wastewater service to the local community that supports growth and the creation of 17,000 new jobs in Western Sydney.
Any transformation of a locality	The precinct was rezoned in June 2020 for industrial purposes, the proposed work will not result in the transformation of a locality. The pressure pipeline will be underground and the compounds will be temporary.
Any environmental impact on the ecosystems of the locality	The proposed work will not result in environmental impacts to ecosystems of the locality. There will be environmental improvements by ensuring a reliable wastewater service will collect and treat wastewater, minimising any impacts on the ecosystem.
Any reduction of the aesthetic, recreational, scientific or other environmental quality or value of the locality	The proposed work will not result in a reduction of the aesthetic, recreational, scientific, or other environmental quality or value, of the locality. All pipelines will be underground and compound sites will be rehabilitated upon completion of works.
Any effect upon a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or any other special value for present or future generations	The proposed works are in a precinct rezoned for industrial purposes and will not have any effect upon a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific, or social significance, or any other special value for present or future generations.
Any impact on the habitat of any protected animals (within the meaning of the <i>Biodiversity Conservation Act 2016</i>)	The proposed work will not have any impact on the habitat requirements of protected animals. No vegetation removal is proposed.
Any endangering of any species of animal or plant or other form of life, whether living on land, in water or in the air	The proposed work will not be endangering any species of animal, plant, or other form of life, whether living on land, in water or in the air.
Any long-term effects on the environment	The proposed work will not have any long-term impacts on the environment but will have a long-term benefit by providing a reliable and modern wastewater service for the area.
Any degradation of the quality of the environment	The proposed work will not cause the degradation of the quality of the environment.
Any risk to the safety of the environment	The proposed work will not increase risk to the safety of the environment.

Section 171 checklist

REF finding

Any reduction in the range of beneficial uses of the environment	The proposed work will not have any reduction in the range of beneficial uses of the environment.
Any pollution of the environment	Environmental safeguards will mitigate the potential for the proposed work to pollute the environment. No pollution of the environment is expected. During operation, wastewater discharges to the environment would be in accordance with the conditions of the Upper South Creek System EPL.
Any environmental problems associated with the disposal of waste	The disposal of wastes will be conducted in accordance with the environmental safeguards, and no environmental problems associated with the disposal of waste are expected.
Any increased demands on resources (natural or otherwise) that are, or are likely to become, in short supply	The proposed work will not increase demand on resources, that are, or are likely to become, in short supply.
Any cumulative environmental effect with other existing or likely future activities	The proposed work may have a cumulative impact due to the extensive infrastructure work currently underway in the precinct.
Any impact on coastal processes and coastal hazards, including those under proposed climate change conditions	The proposed work will not have any impact on coastal processes or hazards.
Any applicable local strategic planning statements, regional strategic plans or district strategic plans made under the EP&A Act, Division 3.1	The proposed works are to service growth and the applicable strategic planning statements or plans have been considered in the system planning and options selection process.
Any other relevant environmental factors.	The proposed work has been assessed against the factors listed above, and there are no other relevant environmental factors to consider.

Appendix B – Consideration of TISEPP consultation

TISEPP section	Yes	No
Section 2.10, council related infrastructure or services – consultation with council		
Will the work:		
Potentially have a substantial impact on stormwater management services provided by council?		X
Be likely to generate traffic that will strain the capacity of the road system in the LGA?		X
Involve connection to, and have a substantial impact on, the capacity of a council owned sewerage system?		X
Involve connection to, and use of a substantial volume of water from a council owned water supply system?		X
Involve installation of a temporary structure on, or enclosing, a public space under council's control that will cause a disruption to pedestrian or vehicular traffic that is not minor or inconsequential?		X
Involve excavation of the surface of, or a footpath adjacent to, a road for which the council is the roads authority that is not minor or inconsequential?	X	
Section 2.11, local heritage – consultation with council		
Is the work likely to affect the heritage significance of a local heritage item, or of a heritage conservation area (not also a State heritage item) more than a minor or inconsequential amount?		X
Section 2.12, flood liable land – consultation with council		
Will the work be located on flood liable land (that is land that is susceptible to flooding by the probable maximum flood event) and will they alter flood patterns other than to a minor extent?		X
Section 2.13, flood liable land – consultation with State Emergency Services		
Will the work be located on flood liable land (ie. land that is susceptible to flooding by the probable maximum flood event) and undertaken under a relevant provision*, but not the carrying out of minor alterations or additions to, or the demolition of, a building, emergency works or routine maintenance? * (e) Div.14 (Public admin buildings), (g) Div. 16 (Research/ monitoring stations), (i) Div. 20 (Stormwater systems)?		X
Section 2.14, development with impacts on certain land within the coastal zone– council consultation		
Is the work on land mapped as coastal vulnerability area and inconsistent with a certified coastal management program?		X
Section 2.15, consultation with public authorities other than councils		
Will the proposal be located on land adjacent to land reserved under the <i>National Parks and Wildlife Act 1974</i> or to land acquired under Part 11 of that Act? <i>If so, consult with DPIE (NPWS).</i>		X
Will the proposal be located on land in Zone E1 National Parks and Nature Reserves or in a land use zone that is equivalent to that zone? <i>If so, consult with DPIE (NPWS)</i>		X
Will the proposal comprise a fixed or floating structure in or over navigable waters? <i>If so, consult TfNSW</i>		X
Will the proposal be located on land in a mine subsidence district within the meaning of the <i>Coal Mine Subsidence Compensation Act 2017</i> ? <i>If so, consult with Subsidence Advisory NSW.</i>		X
Will the proposal involve clearing of native vegetation on land that is not subject land (ie non-certified land)? <i>If so, notify DPIE at least 21 days prior to work commencing. (Requirement under s3.24 Chapter 3 Sydney Region Growth Centres - of the SEPP (Precincts – Central River City) 2021.</i>		X



Appendix C – Aboriginal Heritage – KNC guidance memo

Redacted to protect sensitive Aboriginal heritage information





Redacted to protect sensitive Aboriginal heritage information





Redacted to protect sensitive Aboriginal heritage information





Redacted to protect sensitive Aboriginal heritage information





Redacted to protect sensitive Aboriginal heritage information

