

Review of Environmental Factors

Multi-program - Category B

T45-S05 Homebush Road, Strathfield

1 Determination

This Review of Environmental Factors Multiprogram - Category B (Category B REF) is to be read in conjunction with the Review of Environmental Factors Multi-program pipeline and related infrastructure replacement, repair and upgrades (Multi-program REF) (August 2025). Together, both documents assess the potential environmental impacts of critical water main renewal works at Homebush Road, Strathfield (the proposal). These documents were 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 for ensuring the proposal is carried out as described in this Category B REF and Multi-program REF. Additional environmental impact assessment may be required if the scope of work or work methods described in either the Multi-program REF or this Category B REF change significantly following determination.

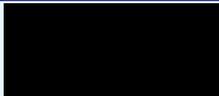
Decision Statement

The main potential construction environmental impacts of the proposal include impacts associated with noise, vibration, traffic, and access as part of the critical water main works for Homebush Road, Strathfield. There are no major impacts associated with operation of the proposal. 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. Therefore, a Species Impact Statement (SIS) and/or Biodiversity Development Assessment Report (BDAR) is not required.

Given the nature, scale and extent of impacts and implementation of the mitigation measures outlined in this Category B REF and the Multi-program REF, the proposal is unlikely to have a significant impact on the environment. Therefore, we do not require an Environmental Impact Statement (EIS) and the proposal may proceed.

Certification

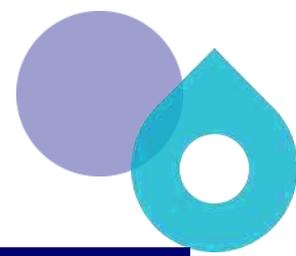
I certify that I have reviewed and endorsed this REF, and, to the best of my knowledge, it is in accordance with the EP&A Act and the Environmental Planning and Assessment Regulation 2021 (EP&A Regulation). The proposal has been considered against matters listed in section 171 and section 171A (Appendix A) and the guidelines approved under section 170 of the EP&A Regulation. The information it contains is neither false nor misleading.

Prepared by:	Reviewed by:	Endorsed by:	Approved by:
 Gabi Head-Gray REF author Sydney Water Date: 05/12/2025	 Grace Corrigan Environmental Representative Sydney Water Date: 05/12/25	 Melissa Navarro Project Manager Sydney Water Date: 10/12/2025	 Murray Johnson Snr Environment & Heritage Manager Sydney Water Date: 14/01/2026

2 Proposal Summary

Table 1 Description of proposal

Aspect	Detailed description
Location	The proposal is along Homebush Road, Strathfield, next to the existing water main (Asset ID: 2943039, 2943035, and 2940299). The proposal would be on the roadway and footpath on Homebush Road from 89 Homebush Road to 72 Redmyre Road. The proposal also includes works on Alvinston Street (Figure 1). The proposal is on land zoned Low Density Residential (R2) in the Strathfield Local Government Area (LGA).
Approved REF	Review of Environmental Factors Multi-program pipeline and related infrastructure replacement, repair and upgrades (Multi-program REF) (August 2025).
Proposal description	<p>The proposal is part of the critical water main works program as detailed in the Multi-program REF.</p> <p>The proposal includes replacing and duplicating about 165 m of an existing DN300 Cast Iron Cement Lined (CICL) water main from 1920 with a downsized DN200 Ductile Iron Cement Lined water main. The purpose of this proposal is to:</p> <ul style="list-style-type: none"> • prevent further water main failures • address operational requirements for growth • improve reliability of the water systems • reduce the risk of water main breaks in the future. <p>The proposal includes the following activities:</p> <p>Site establishment and investigations</p> <ul style="list-style-type: none"> • Undertake any remaining investigations (e.g. CCTV investigations to ensure structural soundness and identify junctions). • Implement traffic control and environmental control measures (e.g. noise, erosion and sediment). <p>Pipeline renewal works</p> <ul style="list-style-type: none"> • Excavate via open trenching (about 8 m long x 0.5 m deep x 0.5 m wide) across the intersection of Homebush Road and Alvinston Street. • Install temporary connections to properties to ensure water supply is provided to affected properties during construction. • Excavate in stages via open trenching along Homebush Road, in the roadway and next to the existing pipe (about 133 m long x 2 m deep x 1.2 m wide). • Install a new water main next to the existing critical water main. • Exhume 10 m of the existing water main and replace with new water main at 72 Redmyre Road. • Remove exotic grass on the road verge in front of 89 Homebush Road.



Aspect	Detailed description
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- Exhume about 3 m of existing water main and relay at 89 Homebush Road to install new stop valve and provide permanent upfront connection.
- Grout the existing water main.

Recommissioning and site de-establishment

- Reconnect the new water main to existing water main and side streets.
- Disinfect and test the new water main.
- Remove temporary connections and return the system to full service.
- Backfill, restore and clean site to its original condition.
- Demobilise from site.

Drinking water supply to affected properties would be disturbed during construction when temporary connections are being provided. Sydney Water will ensure any disturbance to drinking water supply would be temporary and minimal.

The site compound would be located at Sydney Water's Potts Hill Reservoir site. To facilitate construction and logistics, continuous (24-hour) access would be required, with an estimated 10 truck movements per shift. No ancillary facilities would be provided at the proposal location.

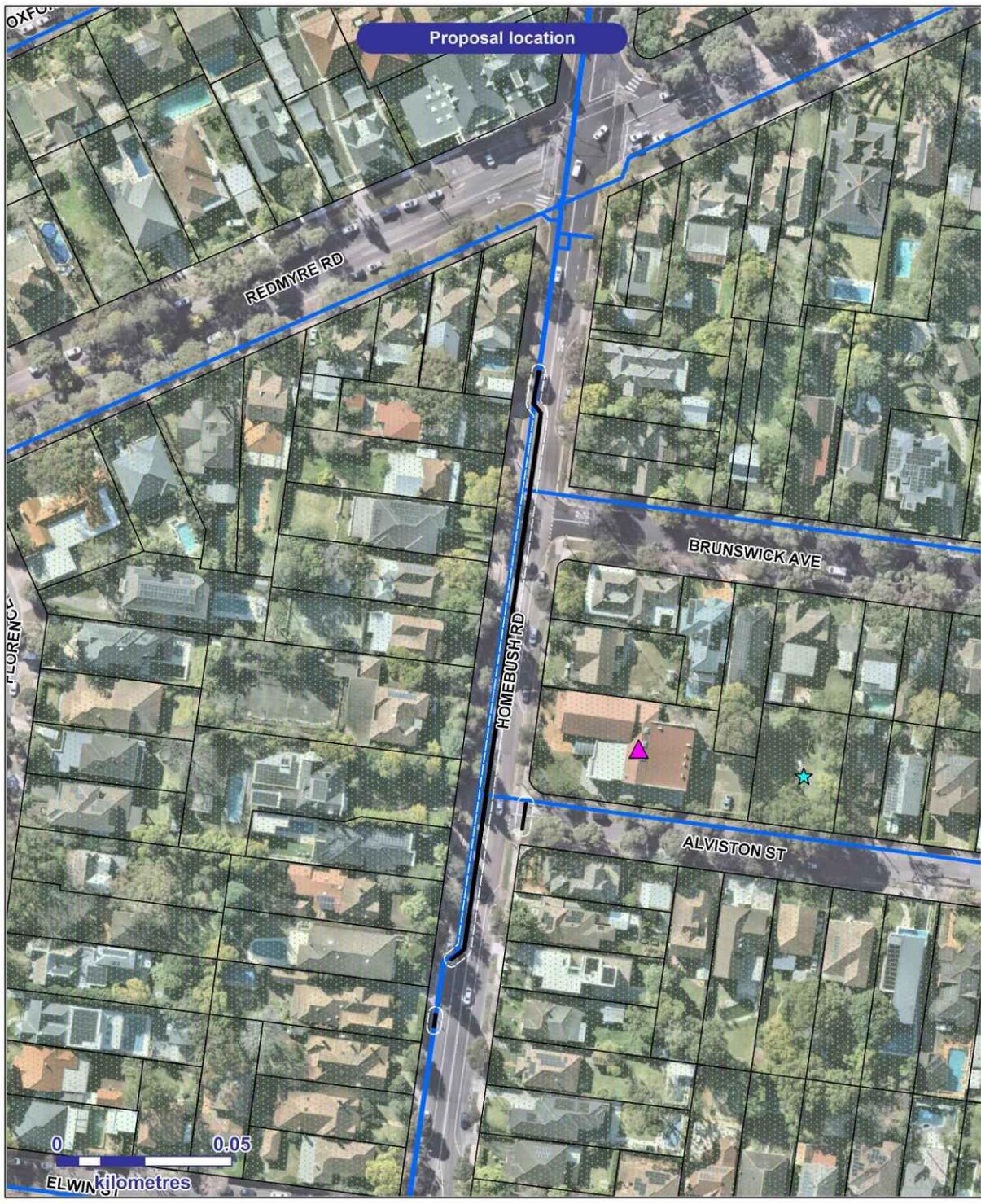
The equipment required during construction includes:

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|--|--|
| • vacuum truck | • noise blankets (as required) |
| • concrete saws | • confined spaces safety equipment (e.g. gantry/davit) |
| • agitator trucks | • poly welding machine |
| • pumps | • air compressors |
| • light and medium vehicles | • semi-trailers |
| • jackhammer (hand and excavator operated) | • skid steer |
| • hand tools | • submersible pumps (if required for de-water) |
| • excavators, 13.5 tonne (t) with hammer | • street sweepers |
| • general purpose excavator bucket | • light tower (if required) |
| • light vehicles – work utes and cars | • skip bins |
| • non-destructive digging (NDD) and tipper truck | • generators |
| | • welding machine. |

Proposal timing

The proposal is expected to take 5 months with construction starting in May 2026. All work would take place at night from 8pm to 5am, Sunday night to Friday morning. Construction is required outside standard construction hours due to the Road Occupancy Licence (ROL) requirements.





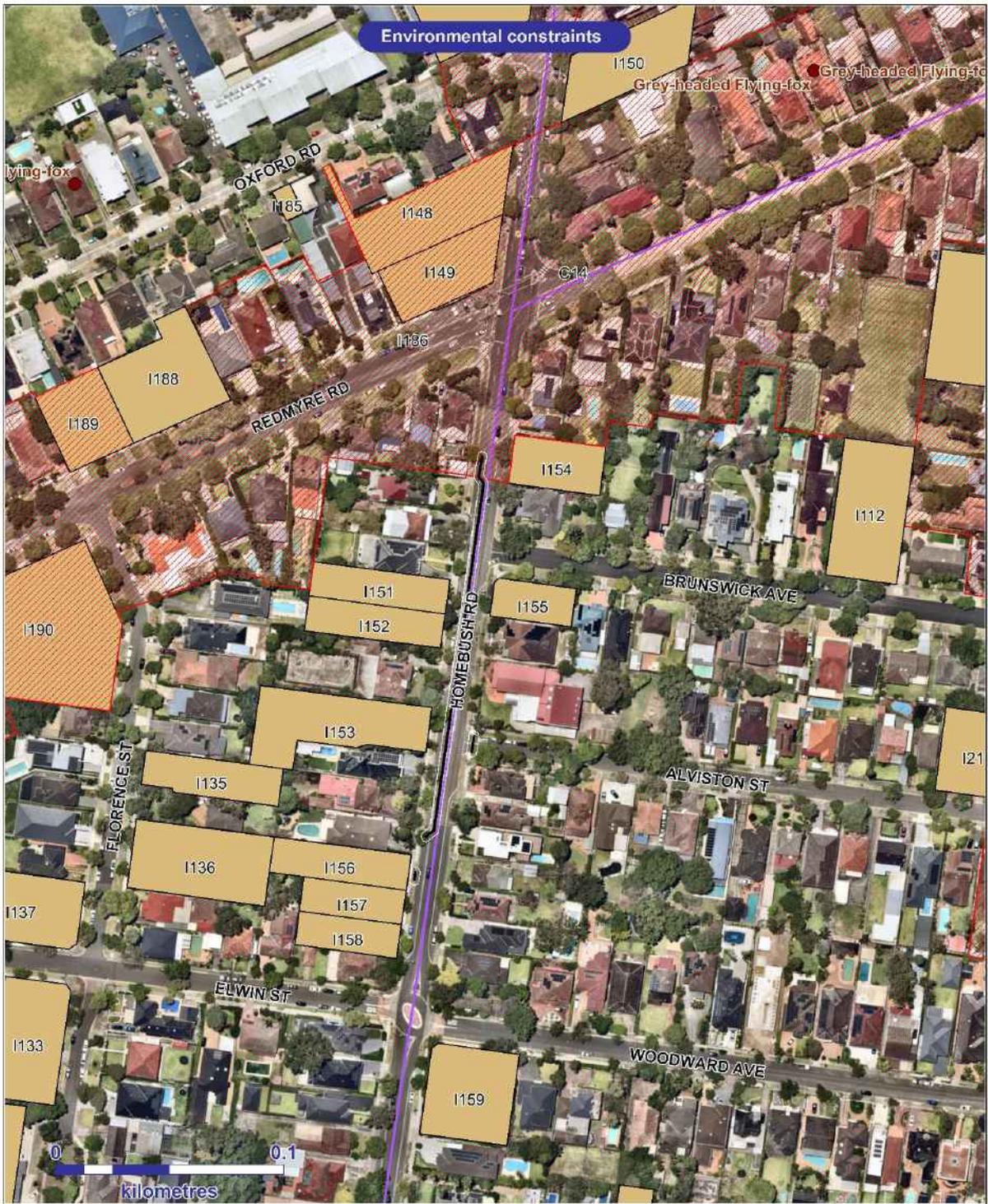
- Legend**
- Proposal design footprint and impact area (2 m buffer)
 - Watermain
 - Lot Coverage
 - ★ Centenary Playground
 - ▲ Place of Worship



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Figure 1 Location of the proposal



- Legend**
- Proposal design footprint and impact area (2 m buffer)
 - Classified Road (Regional)
 - Threatened fauna species

- Local Heritage Item
- Redmyre Road Conservation Area



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Figure 2 Environmental constraints



3 Consultation

Community and stakeholder consultation

Our approach to community and stakeholder consultation is guided by Sydney Water's community and stakeholder engagement guidelines.

Stakeholder and community engagement is a planned process of initiating and maintaining relationships with external parties who have an interest in our activities. Community and stakeholder engagement:

- enables us to explain strategy, policy, proposals, proposal or programs
- gives the community and stakeholders the opportunity to share their knowledge, issues and concerns
- enables us to understand community and stakeholder views in our decision-making processes alongside safety, environment, economic, technical and operational factors.

The nature, scale and extent of the proposal's potential impact is evaluated in this REF. If our work impacts the community in some way, we will consult with impacted groups throughout the proposal. This includes engaging the broader community and stakeholders during plan or strategy development or before making key decisions.

Community consultation will be undertaken before starting construction to inform nearby residents and businesses of anticipated noise impacts and disruptions to traffic and property access. Where access to private residential properties is required (e.g. to connect to temporary water supplies), residents will be consulted in advance.

Before starting work, we will inform Strathfield Council of the construction start dates and consult with them on public safety issues, temporary works on Council land, and partial road closures of Council managed roads. This is in addition to the TISEPP consultation discussed below.

Consultation required under State Environmental Planning Policies and other legislation

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. This requirement is specified in the State Environmental Planning Policy (Transport and Infrastructure) 2021 (TISEPP). Strathfield Council has been notified on 25 September 2025 in compliance with section 2.10 of the TISEPP as works require temporary closure of Council-owned roads (refer to Appendix B – Consideration of TISEPP consultation). As of 25 November 2025, Council has not provided a response to the proposal. Any future response from Council would be considered in the Construction Environmental Management Plan (CEMP) where relevant.

4 Legislative requirements

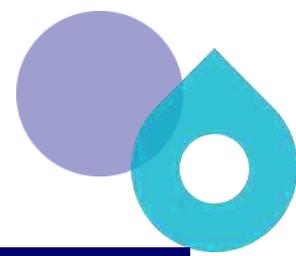
There are no additional legislative requirements beyond those already assessed in the Multi-program REF (August 2025).

5 Additional environmental impacts and mitigation measures

The tables below list the additional environmental impacts that could result from the proposal and the additional mitigation measures. All other environmental impacts and mitigation measures identified in the Multi-program REF remain the same and will be incorporated into the Contractor's CEMP.

Table 3 Environmental impacts table

Aspect	Additional impacts	Additional mitigation measures
Topography, geology and soils	<p>A desktop geotechnical assessment (Alliance Geotechnical Pty Ltd, March 2025, report reference 18777-ER-1-1) found fill and topsoil to about 1 m below ground level (mBGL) along the alignment. No contamination sources were identified and there is a low risk for acid sulfate soils to occur in the proposal location.</p> <p>Unexpected contamination caused by fuel leaks, other hazardous materials or illegal waste dumping may be exposed.</p> <p>No operational impacts are expected, as the new pipeline is underground and the ground surface would be restored.</p> <p>With the implementation of mitigation measures in the overarching REF, residual impacts would be minor.</p>	<p>Mitigation measures in the overarching Multi-program REF (August 2025) will be implemented to manage potential impacts.</p>
Water and drainage	<p>There are no waterways in the proposal area. The closest waterway to the proposal area is about 800 m north-west.</p> <p>Groundwater has not been found in any historical boreholes, and it is expected that the groundwater table is greater than 5 mBGL. As excavation would be up to 2 m deep, groundwater is unlikely to be found. No operational impacts are expected.</p> <p>With the implementation of mitigation measures, the potential impacts to water and drainage resulting from construction are expected to be minor and manageable.</p>	<p>Mitigation measures in the overarching Multi-program REF (August 2025) will be implemented to manage potential impacts.</p>
Flora and fauna	<p>No threatened flora or fauna, Plant Community Types (PCT) or Threatened Ecological Communities (TEC) are present in the proposal area.</p> <p>The closest mapped PCTs are over 150 m from the proposal. The closest mapped threatened species is a Grey-headed Flying Fox <i>Pteropus poliocephalus</i> (GHFF) about 50 m north-east. No</p>	<p>Mitigation measures in the overarching Multi-program REF (August 2025) will be implemented to manage potential impacts.</p>



Aspect	Additional impacts	Additional mitigation measures
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other threatened flora or fauna sightings are mapped within 200 m of the proposal.

The proposal area and surrounding area may provide suitable foraging habitat for GHFF. However, as the proposal would avoid impacts to native vegetation or suitable habitat for GHFF, impacts to this threatened species is considered unlikely.

Removal of exotic grass would be required on the road verge of Homebush Road to install a new stop valve and provide permanent upfront connection to 89 Homebush Road. No native vegetation would be removed as part of the proposal.

Due to minimal vegetation impacts, impacts to threatened flora and fauna and their habitat would be negligible during construction. No operational impacts are expected to native vegetation or threatened species.

Heritage

Aboriginal heritage

There are no listed Aboriginal Heritage Information Management System (AHIMS) sites within 200 m of the proposal (AHIMS Search ID 1064863 performed on 10 November 2025). Additionally, there are no waterways within 200 m of the proposal. The works are not expected to disturb any previously unknown heritage items, as construction would be on previously disturbed land. Impacts to Aboriginal heritage are not expected during construction or operation.

Non-Aboriginal heritage

Figure 2 shows the nearby locally significant heritage items along Homebush Road. The proposal would be outside the curtilage of all local heritage items but has the potential to cause temporary visual impacts to these items.

The local heritage items along Homebush Road may be impacted by vibratory works within the proposal area. The 'Noise and vibration' section and Appendix C discuss vibration impacts on heritage structures.

A small section of work along Homebush Road is in the Redmyre Road Conservation Area, which

Mitigation measures in the overarching Multi-program REF (August 2025) will be implemented to manage potential impacts.

Apply additional mitigation measures:

- Mature trees along Homebush Road within the Redmyre Road Conservation Area (C14) must not be disturbed during construction.

When using the site compound at Potts Hill Reservoir:

- Follow recommendations 1 to 6 in Standard Exemption Form 2526_S57_0002.
- Work must be done in accordance with the Specified Activities and Relevant Standards of the applicable Standard Exemptions





Aspect	Additional impacts	Additional mitigation measures
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has significance for the intact properties and mature streetscape. All excavation would be in the roadway and on existing disturbed ground. It is unlikely that impacts to mature trees in the Conservation Area would be required. Impacts to the conservation area are considered minor or inconsequential.

The proposed site compound is at the Potts Hill Reservoir site, which is listed on the NSW State Heritage Register. Use of the site compound has been assessed against the specified activities and relevant standards of the following Standard Exemptions, issued under Section 57(2) of the *Heritage Act 1977* (Government Gazette No. 262, 17 June 2022):

- Standard Exemption 3: Alteration to Non-Significant Fabric
- Standard Exemption 13: Vegetation.

Use of the site compound would not adversely impact the heritage significance of Potts Hill Reservoir and would comply with the exemptions (Standard Exemption Form 2526_S57_0002). No operational impacts are expected.

With the implementation of mitigation measures, potential impacts to non-Aboriginal heritage from construction are expected to be minor and manageable.

Noise and vibration

Noise impacts

The proposal is in a residential area, and nearby receivers would be impacted by noise during construction.

The likelihood of noise impact from the proposal was reviewed against risk factors based on Table 2 of the *Draft Construction Noise Guideline* (EPA, 2020). The risk rating of potential noise impacts during construction was assessed as medium - high. As such, a quantitative noise impact assessment of the proposal has been undertaken (refer to Appendix C - Noise assessment memo).

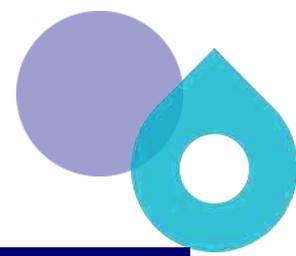
The Transport for NSW (TfNSW) Construction and Maintenance noise estimator tool (TfNSW, 2022) was used for the assessment.

Potential impacts will be managed in accordance with the mitigation measures in the Multi-program REF (August 2025) and the following additional mitigation measures:

- Conduct a dilapidation survey / asset condition assessment before work which may damage heritage-listed items (Item No. I152, I154, I155, I156, I157).
- Monitor compliance with the recommended vibration levels in DIN 4150-3 1999: Structural Vibration – Part 3; Effects of vibration on structures.



Aspect	Additional impacts	Additional mitigation measures
	<p>Assumptions included in the noise impact assessment (Appendix C - Noise assessment memo) are summarised below:</p> <ul style="list-style-type: none"> • Background noise level R3 was selected as the noise area category at evening and night. • The proposal involves linear works along Homebush Road (e.g. excavation) and static activities (e.g. welding), comprising a mix of higher-noise equipment (e.g. concrete saws, excavators with hammers) and lower-noise activities (e.g. hand tools). • A 13.5T excavator with hammer (noisiest plant) would be used intermittently to break the road surface followed by use of a concrete saw during initial shifts of construction. • Sydney Water would aim to schedule noisier activities (e.g. use of excavators and concrete saws) during the earlier stages of construction where feasible. • All noisy work, as defined under the EPA Construction Noise and Vibration Guideline, would be completed by midnight. Where practicable, noisy activities would be undertaken earlier in each shift and on an intermittent basis. • The proposal would not include continuous work for 5 months. There would be blocks of 2 to 3 weeks in the construction program for disinfection and testing of the new pipeline, which will generally be quieter than replacement and duplication. • The use of the proposed site compound is considered low risk due to being about 220 m from the nearest residential receivers and the non-continuous operation of low-noise plant and equipment. Therefore, further assessment has not been undertaken for the site compound as part of this proposal. <p>Figure 3 and Figure 4 show predicted construction noise impacts. Table 2 and 3 of Appendix C -</p>	<ul style="list-style-type: none"> • Apply recommended additional mitigation measures from TfNSW noise estimator tool as per Table 6 of the noise impact assessment (refer to Appendix C - Noise assessment memo where noise levels are expected to exceed the Noise Management Level (NML)). • Community consultation to be done in advance of work starting to determine the number of consecutive night shifts. • Community engagement will be done about one month in advance of the work starting, with notifications to impacted residents within the zone of influence. • Residents and businesses within the direct zone of influence will be consulted before the start of work. • Consultation will include number of night shifts per week and mitigation measures to be adopted. • Ongoing engagement will continue on an ad-hoc basis for sensitive receivers / highly impacted residents. • Engagement during construction will be ongoing and include proactive management of issues to minimise complaints. Where complaints and enquiries arise, action will be taken to address these with appropriate mitigation adopted. • Project updates will be made to the community and nearby residents as determined by the Community and Stakeholder Action Plan.



Aspect	Additional impacts	Additional mitigation measures
	<p>Noise assessment memo summarises the outputs of the TfNSW noise estimator tool.</p> <p>Key findings of the noise impact assessment include the following:</p> <ul style="list-style-type: none"> Residential receivers with Line of Sight (LOS) and within 70 m of the proposal would be highly affected by Out of Hours Work (OOHW). Residential receivers with No Line of Sight (NLOS) and within 110 m of the proposal would experience moderately intrusive noise impacts by OOHW. The Western Sydney Chinese Christian Church (place of worship) is a non-residential receiver with LOS to the proposal (Figure 1). This receiver is modelled to experience noise in the evening > 25 dB. However, the proposal is unlikely to impact on this receiver as construction would start outside of its operating hours. The proposal may result in sleep-disturbance impacts for residential receivers within 390 m with LOS and residential receivers within 170 m with NLOS. <p>With the implementation of the mitigation measures, impacts to noise impacts can be adequately managed, and residual impacts are expected to be low to moderate during construction. No impacts are anticipated during operation.</p> <p>Vibration impacts</p> <p>The proposal requires use of a medium hydraulic hammer (13.5T excavator with hammer) where the minimum working distance to light-framed structures (non-heritage structures) is 7 m and the minimum working distance to heritage structures is 19 m.</p> <p>The proposal will occur within the minimum working distances for vibration intensive plant for light framed structures (i.e. 72 Redmyre Road) and human response. The proposal will also</p>	<ul style="list-style-type: none"> Following outcomes of community engagement, residents will be notified of night work at least 7 days in advance of work starting. An Out of Hours Work Plan (OHWP) will be completed in advance of work starting. A Community Engagement Advisor will be assigned to the project. All complaints will be recorded in Sydney Water’s Delivery Portal and Customer Relationship Management database (SAP CRM). Register to be incorporated as part of site diary entry and pre-start meetings to discuss and record potential community and environmental issues and impacts. Attended monitoring will be in place to evaluate construction noise and where appropriate, vibration levels. Recordings will be measured to evaluate whether mitigation measures are adequate or require revision, and to address complaints. A Project Environmental Mentoring session will be held in advance of work starting to induct all site crew members on the requirements of the REF and CEMP. Where feasible and required, noise blankets (e.g. around generators) will be installed between the work area and nearby residences on Homebush Road.



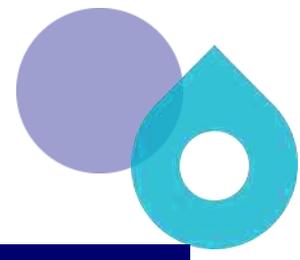


Aspect	Additional impacts	Additional mitigation measures
	<p>occur within the minimum working distance of the building frontages of the following heritage-listed items:</p> <ul style="list-style-type: none"> • 77 Homebush Road (I152) • 82 Homebush Road (I154) • 86 Homebush Road (I155) • 89 Homebush Road (I156) • 91 Homebush Road (I157). <p>Table 4 of Appendix C - Noise assessment memo summarises the minimum working distances and vibration impacts of the proposal.</p> <p>Smaller pieces of equipment cannot be used for this proposal. Vibration impacts to these structures would be minor and managed by the mitigation measures. No vibration impacts are expected during operation.</p>	<ul style="list-style-type: none"> • Noisy work as defined under the EPA Construction Noise and Vibration Guideline will be completed before midnight where possible.
<p>Waste and hazardous materials</p>	<p>A waste classification report (Alliance Geotechnical Pty Ltd, April 2025, report reference 18792-GR-1-1 Rev 2) has been prepared for the proposal. No potential asbestos containing materials were found in soil samples. The material was classified as General Solid Waste (non-putrescible).</p> <p>The site compound for the proposal would be offsite, at Sydney Water's Potts Hill Reservoir. The site compound would be used to house site amenities, site office, material storage, and spoil. No stockpiling areas, material laydown areas, facilities or amenities would be provided along Homebush Road.</p> <p>Spoil from the excavation would be reused as backfill following the works where feasible. Any excess soil would undergo in-situ waste classification and be disposed at an appropriately licenced offsite facility. No hazardous material would be used or stored on site. No operational impacts are expected.</p> <p>Impacts related to waste and hazardous materials during construction of the proposal are not expected to occur.</p>	<p>Potential impacts will be managed in accordance with the mitigation measures in the Multi-program REF (August 2025) and the following additional mitigation measures:</p> <ul style="list-style-type: none"> • In-situ waste classification to be undertaken before waste disposal.



Aspect	Additional impacts	Additional mitigation measures
<p>Traffic and access</p>	<p>Homebush Road is classified as a regional road, whereas Alvinston Street and Brunswick Avenue are classified as local roads.</p> <p>During construction, there would be changes to access to nearby residential properties.</p> <p>Private property access would likely be restricted for up to 3 properties at a time, for up to 2 nights in front of each property as the work progresses. Traffic control would assist in private property access where required.</p> <p>Access to two northbound bus stops along Homebush Road would be impacted as a result of the proposal (Stop ID 213571 and 213572). Work at Stop ID 213571 includes permanent upfront connection and work at Stop ID 213572 includes pipeline duplication and replacement. This work along Homebush Road would restrict access to these bus stops for about 3 nights. The relevant authority would be notified. No other bus stops are expected to be impacted along Homebush Road during construction.</p> <p>Staged lane closures for construction would be required during night work along the northbound side of Homebush Road. Closures may impact road network performance and increase travel time for vehicle users. The impacts from these disruptions would likely be mainly limited to residents near the proposal.</p> <p>The Alvinston Street and Homebush Road intersection may need to be temporarily blocked only during construction for 2 night shifts. This intersection would not be blocked outside of construction hours. A detour along local roads would be provided.</p> <p>It is estimated that around 5 vehicle movements per shift would occur within the proposal area during construction. Traffic volumes from construction vehicles are therefore expected to be low.</p> <p>Construction vehicles and larger equipment (e.g. excavator) would park within the traffic control area following the ROL requirements. If required, on-street parking along Homebush Road, Alvinston Street and Brunswick Avenue would be</p>	<p>Potential impacts will be managed in accordance with the mitigation measures in the Multi-program REF (August 2025) and the following additional mitigation measures:</p> <ul style="list-style-type: none"> • Notify the relevant bus authority for temporary access disruption to bus stops affected by the proposal (Stop ID 213571 and 213572).

Aspect	Additional impacts	Additional mitigation measures
	<p>used for construction vehicles. No impacts are anticipated during operation.</p> <p>With the implementation of the mitigation measures below, impacts to traffic and access can be adequately managed, and residual impacts are expected to be low.</p>	
<p>Social and visual</p>	<p>The potential social impacts of noise, vibration, traffic and access are assessed above.</p> <p>Machinery and construction activities, including excavation, traffic control and lighting, may have minor temporary impacts on visual amenity during night work.</p> <p>Non-residential receivers near the proposal area include:</p> <ul style="list-style-type: none"> • Western Sydney Chinese Christian Church (place of worship) is about 15 m east of the southern portion of the alignment. The operating hours of this receiver are Tuesday and Sunday during day and early evening. • Centenary Reserve is located about 70 m east of the alignment. This area is more commonly used during the day. • Strathfield Council and Strathfield Town Hall are about 70 m north of the alignment. This receiver is open from 8:30 am to 4 pm during weekdays only. <p>As works would occur outside standard construction hours, the proposal is unlikely to impact these non-residential stakeholders.</p> <p>There would be no permanent aesthetic changes to the existing environment in and near Redmyre Road Conservation Area. Aesthetic changes would be temporary and occur only during construction. Mitigation measures would be implemented to ensure impacts are adequately managed.</p>	<p>Mitigation measures in the overarching Multi-program REF (August 2025) will be implemented to manage potential impacts.</p>
<p>Cumulative and future trends</p>	<p>No other known Sydney Water projects or other developments are occurring in the local area.</p> <p>Potential impacts of the proposal are minor, localised, and are unlikely to make a contribution</p>	<p>Mitigation measures in the overarching Multi-program REF (August 2025) will be implemented to manage potential impacts.</p>



Aspect	Additional impacts	Additional mitigation measures
	<p>to any cumulative environmental impact at a local or regional scale. Therefore, no cumulative impacts are expected.</p>	





Legend

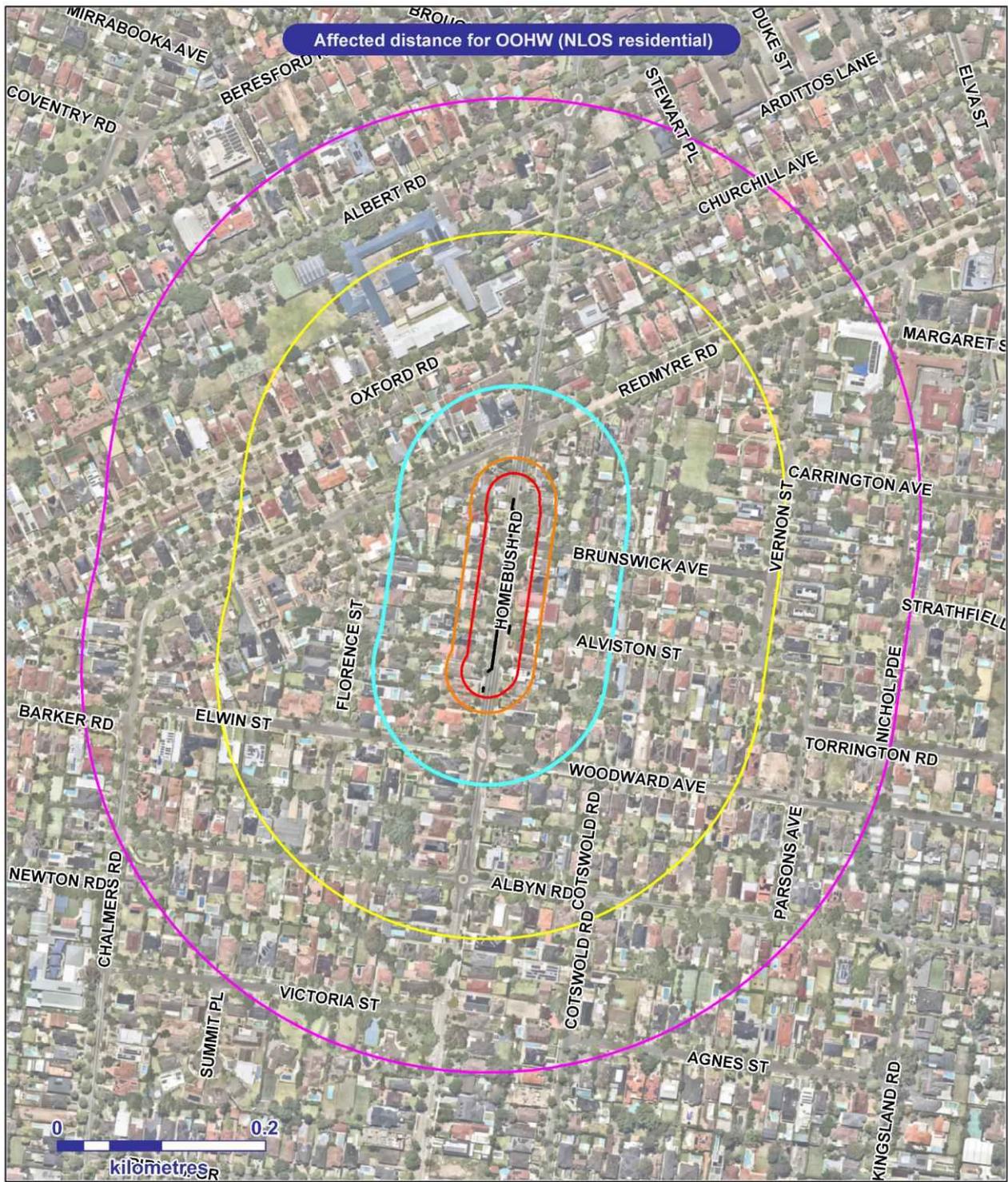
- Proposal alignment
- 70 m - Highly affected - LAeq(15minute) 75 dB (A) or greater
- 110 m - Highly intrusive - >30 dB(A) (Night)
- 260 m - Moderately intrusive - 20 to 30 dB(A) (Night)



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Figure 3 Noise assessment results (residential receivers, LOS)



Legend

- Proposal alignment
- 25 m - Highly affected - LAeq(15minute) 75 dB(A) or greater
- 40 m - Highly intrusive - >30 dB(A) (Night)
- 110 m - Moderately intrusive - 20 to 30 dB(A)
- 260 m - Clearly audible - 10 to 20 dB(A) (Evening)
- 390 m - Noticeable - 5 to 10 dB(A)



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Figure 4 Noise assessment results (residential receivers, NLOS)

Table 4 Environmental mitigation measures

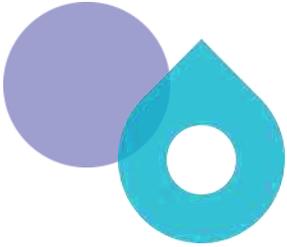
Mitigation measures
Heritage
Mature trees along Homebush Road within the Redmyre Road Conservation Area (C14) must be protected during construction.
When using the site compound at Potts Hill Reservoir: <ul style="list-style-type: none"> • Follow recommendations 1 to 6 in Standard Exemption Form 2526_S57_0002 • Work must be done in accordance with the Specified Activities and Relevant Standards of the applicable Standard Exemptions
Noise and vibration
Conduct a dilapidation survey / asset condition assessment before work which may damage heritage-listed items (Item No. I152, I154, I155, I156, I157).
Monitor compliance with the recommended vibration levels in DIN 4150-3 1999: Structural Vibration – Part 3; Effects of vibration on structures.
Apply recommended additional mitigation measures from TfNSW noise estimator tool as per Table 6 of the noise impact assessment (refer to Appendix C - Noise assessment memo where noise levels are expected to exceed the Noise Management Level (NML).
Community consultation to be done in advance of work starting to determine the number of consecutive night shifts.
Community engagement will be done about one month in advance of the work starting, with notifications to impacted residents within the zone of influence.
Residents and businesses within the direct zone of influence will be consulted before the start of work.
Consultation will include number of night shifts per week and mitigation measures to be adopted.
Ongoing engagement will continue on an ad-hoc basis for sensitive receivers / highly impacted residents.
Engagement during construction will be ongoing and include proactive management of issues to minimise complaints. Where complaints and enquiries arise, action will be taken to address these with appropriate mitigation adopted.
Project updates will be made to the community and nearby residents as determined by the Community and Stakeholder Action Plan.
Following outcomes of community engagement, residents will be notified of night work at least 7 days in advance of work starting.
An Out of Hours Work Plan (OHWP) will be completed in advance of work starting.
A Community Engagement Advisor will be assigned to the project.
All complaints will be recorded in Sydney Water’s Delivery Portal and Customer Relationship Management database (SAP CRM).
Register incorporated as part of site diary entry and pre-start meetings to discuss and record potential community and environmental issues and impacts.
Attended monitoring will be in place to evaluate construction noise and where appropriate, vibration levels. Recordings will be measured to evaluate whether mitigation measures are adequate or require revision, and to address complaints.
A Project Environmental Mentoring session will be held in advance of work starting to induct all site crew members on the requirements of the REF and CEMP.



Mitigation measures
Where feasible and required, noise blankets (e.g. around generators) will be installed between the work area and nearby residences on Homebush Road.
Noisy work as defined under the EPA Construction Noise and Vibration Guideline will be completed before midnight where possible.
Waste and hazardous materials
In-situ waste classification to be undertaken before waste disposal.
Traffic and access
Notify the relevant bus authority for temporary access disruption to bus stops affected by the proposal (Stop ID 213571 and 213572).

6 Conclusion

This Category B REF outlines potential environmental impacts associated with noise, vibration, traffic, and access as part of the critical water main works for Homebush Road, Strathfield. Any additional environmental impacts are considered to range from low to moderate and potential impacts can be mitigated through implementation of the measures outlined in this Category B REF and the Multi-program REF. The proposal is not likely to significantly impact the environment.



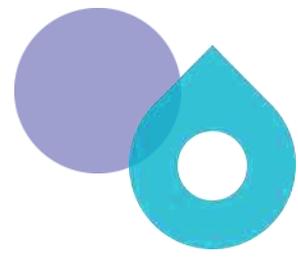
Appendix A – Section 171 and 171A checklist

There are no requirements in addition to those considered in the Multi-program REF (August, 2025).

There are also no assessment requirements under section 171A of the EP&A Regulation 2021 in addition to those considered in the Multi-program REF (August, 2025).

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
Connect to, and have a substantial impact on, the capacity of a council owned sewerage system?		X
Connect to, and use a substantial volume of water from a council owned water supply system?		X
Require temporary structures on, or enclose, a public space under council's control that will disrupt pedestrian or vehicular traffic that is not minor or inconsequential?		X
Excavate a road, 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 on flood liable land (land that is susceptible to flooding by the probable maximum flood event) and will works 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 on flood liable land (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 on land adjacent to land reserved under the <i>National Parks and Wildlife Act 1974</i> or land acquired under Part 11 of that Act? <i>If so, consult with DPE (NPWS).</i>		X
Will the proposal be on land in Zone C1 National Parks and Nature Reserves or on a land use zone that is equivalent to that zone? <i>If so, consult with DPE (NPWS).</i>		X
Will the proposal include a fixed or floating structure in or over navigable waters? <i>If so, consult TfNSW.</i>		X
Will the proposal be 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 be on land in a Western City operational area specified in the <i>Western Parkland City Authority Act 2018</i> , Schedule 2 and have a capital investment value of \$30 million or more? <i>If so, consult the Western Parkland City Authority.</i>		X
Will the proposal clear native vegetation on land that is not subject land (ie non-certified land)? <i>If so, notify DPE 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 - Noise assessment memo

