

## Minor Works Environmental Impact Assessment (EIA) /Minor Works Review of Environmental Factors(REF) Form

This EIA form is used by WaterNSW to assess and approve minor works that are either *Development Without Consent* or *Exempt Development*. It records & assesses activities or project works where environmental impacts are minimal or not likely to significantly affect the environment.  
If you are unsure how to answer anything in this Form, please contact the Environmental Services Team for assistance and advice.

### SECTION 1 PROJECT SCOPE

	QUESTIONS	ANSWERS	GUIDANCE
1.1	Organisation/Business Unit/Team	WaterNSW / Asset Delivery / Flood Recovery	
1.2	WaterNSW representative and contact details	[REDACTED]	
1.3	Has a site inspection been undertaken? If so by whom and when?	Yes, by [REDACTED] on 15 March 2024	<i>It is recommended the person undertaking site inspection should also complete this Form.</i>
1.4	ARK Reference – Project Folder/Work Folder	F2022/7076	<i>Save your work to ARK and include the ARK numbers here. Provide project/works folder for background information</i>
1.5	Project Number/Budget Code	[REDACTED]	<i>Environmental Services time taken to process this request will be assigned to the project. ⓘ</i>
1.6	Project or Works Value	\$150,000	
1.7	Project or Works Title	Warragamba DWPS Flood Door	<i>Include the full name for the project or work you propose undertaking.</i>
1.8	<b>Scope of Works:</b> What is to be undertaken and how?	Scope of works: - geotechnical investigation by coring rock sample to confirm rock strength of the adit tunnel at the proposed flood door locations. The core size will be 100mm diameter maximum with length of 300mm long. - installation of new metal flood doors with concrete plugs at the upper end and lower end of the adit tunnel as per design drawings.	<i>Clearly outline the full scope of work and activities, including equipment type, size, quantity; sequence and tasks involved including site establishment, stockpiles; temporary structures such as site sheds; any block banks and de-watering.</i>
1.9	Proposed Start Date and Expected Duration of works	Proposed start date – May 2024 Duration - Approx 2 weeks	
1.10	Planned Site Work Hours	Standard hours	<i>Identify the planned site work hours. Standard Hours are : Mon-Fri 7am-6pm, Sat 8am-1pm, No work Sunday or Public Holidays. Non-standard hours may require additional noise assessments to be prepared</i>
1.11	One-off Project or Routine work	<input checked="" type="radio"/> One Off <input type="radio"/> Routine	
1.11.2	Options considered & justification for selecting the preferred option.	The Deep Water Pump Station (DWPS) at Warragamba, owned and operated by WaterNSW to supplement Sydney's water supply during droughts, faced significant flooding due to intense and prolonged rainfall events in 2021 and 2022. This led to extensive damage, necessitating comprehensive repair work. The repair process involves the removal and replacement of numerous damaged assets, with the extracted damaged components being taken out of the DWPS for disposal, while new replacement parts are lifted into the DWPS for installation. The proposed flood doors to be installed aim to mitigate future flood risk, as experienced in the inundation of the underground DWPS cavern in 2021.	<i>Describe all options that were considered and why the preferred option was selected.</i>
1.12	Location	Warragamba DWPS Adit Tunnel	<i>Identify the location of the project or work (e.g. which asset). Be sure to include the access roads / route</i>
1.13	Site Plan / Photos / Aerial Photo: Add Figures or ARK reference to figures		
		<span style="background-color: #90EE90; padding: 2px 10px;">Add Figure or Photo</span> <span style="background-color: #DDA0DD; padding: 2px 10px; margin-left: 20px;">Remove Figure or Photo</span>	

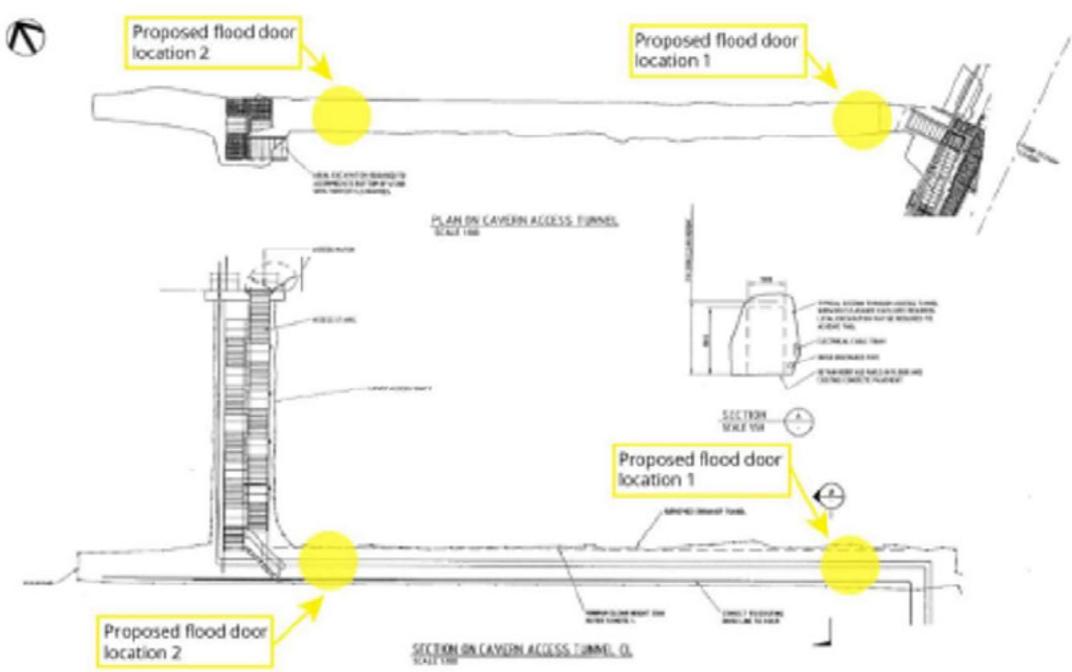




Figure 19. Internal view along the adit tunnel.



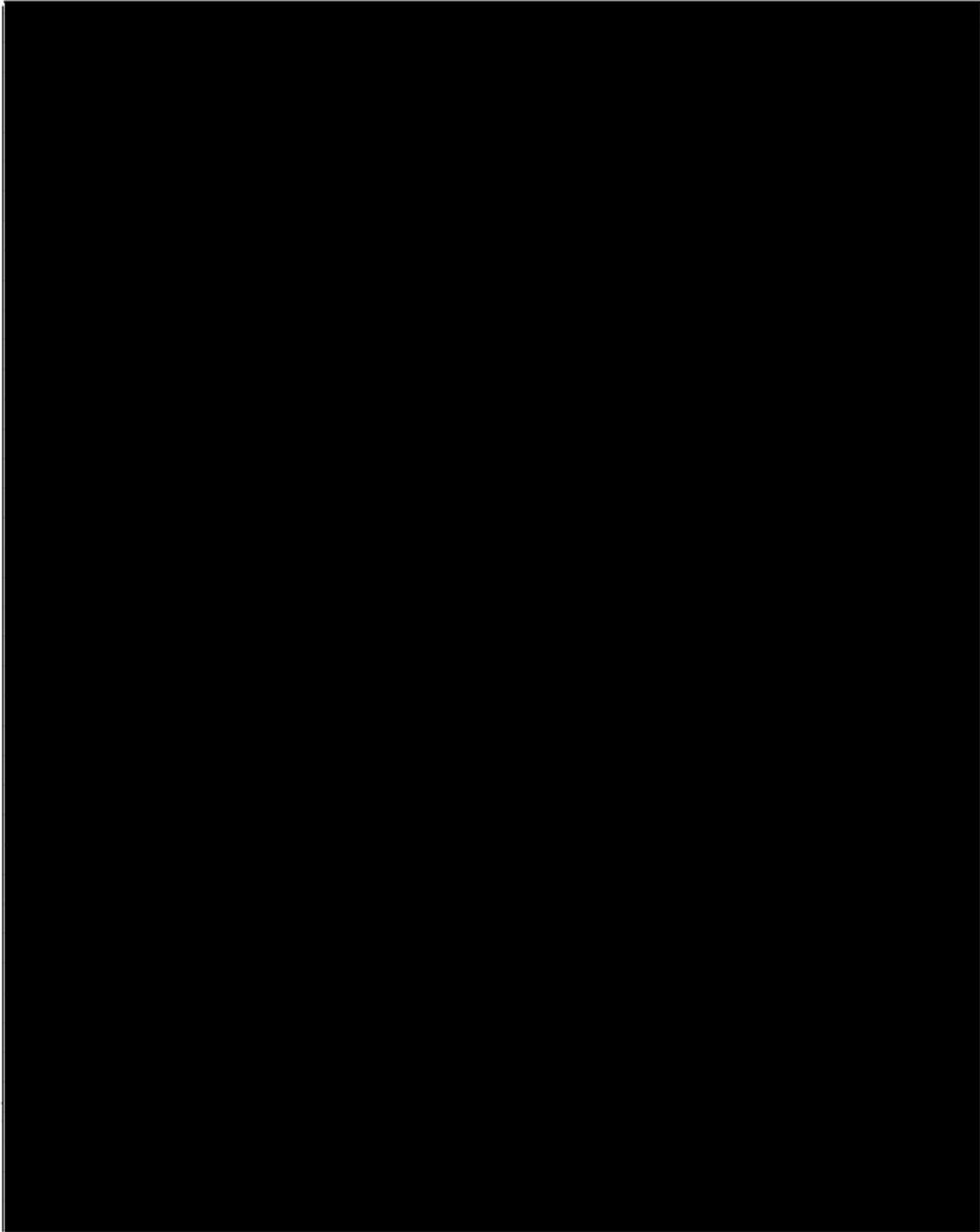
Figure 20. Internal view along the adit tunnel

1.14	Is the land and/or asset owned by WaterNSW?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Site ownership details can be found at; Vested orders (DOC11/8076) Land Titles Office NULA <a href="#">i</a>
1.14.1	Provide evidence of ownership and detail what the land is used for	Warragamba Deep Water Pump Station	Provide details of landuse e.g operational area, Special Area, Controlled Area, recreational area, agricultural area etc <a href="#">i</a> <a href="http://www.watersw.com.au/supply/Greater-Sydney/system">http://www.watersw.com.au/supply/Greater-Sydney/system</a> NULA
1.15	Lot and DP	Lot 1124 DP 1159978	Find a property using NULA or the <a href="#">NSW Planning Portal</a>
1.16	What is the Local Government Area (LGA)?	Wollondilly	Use: 1. <a href="#">LPI SIX Maps</a> or 2. <a href="#">NSW Planning Portal</a> or 3. <a href="#">NULA</a>
1.17	What is the zoning of the site?	SP2	Provide details of the zoning from the relevant Local Environmental Plan(s) <a href="#">i</a>
1.18	Will the project or work be within the Sydney Drinking Water Catchment and/or a Special Area / Controlled Area?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Check <a href="#">NULA</a> to identify if the project or work is within the Sydney Drinking Water Catchment. For more information on undertaking a Neutral or Beneficial Effect Assessment refer to CD2016/89*
1.18.1	Are there any identifiable potential impacts on water quality?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Potential pollutants are sediments (fine & coarse), nitrogen, phosphorus, pathogens and hazardous chemicals and contaminants such as oil/fuel.
1.18.5	Is it likely that a neutral or beneficial effect on water quality will occur? Why?	Neutral. No impact to Warragamba River.	
<b>SPECIAL AND CONTROLLED AREAS</b>			
Select the appropriate safeguards to manage the impacts			
SP1	Special & Controlled Areas	All activities or work undertaken in Water NSW Special / Controlled Areas shall be carried out in a manner that will prevent or minimise impacts on water quality, environmental damage and fire.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A

SP2	Special & Controlled Areas	Standard access requirements of Water NSW catchment lands shall be observed. This includes restricted access to the catchment after periods of significant rainfall (typically 10mm in a 24 hour period).	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SP3	Special & Controlled Areas	All gates and barriers shall be closed and locked at all times to prevent unauthorised access to the Special/Controlled Area	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SP4	Special & Controlled Areas	Any suspected unauthorised access to the area shall be reported to the WaterNSW Incident Number 1800 061 069 (24/7 Service)	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SP5	Special & Controlled Areas	All incidents, spills or fire sightings that occur in the WaterNSW Special / Controlled Area shall be immediately reported to the WaterNSW Incident Number 1800 061 069 (24/7 Service)	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SP6	Special & Controlled Areas	Works shall not be undertaken and vehicles shall not travel on unsealed roads in the Water NSW Special / Controlled Areas when road surfaces are saturated, water is flowing down table drains or the catchment has been closed by Water NSW.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SP7	Special & Controlled Areas	Portable fuel trailers shall be taken off catchment at the end of each working week.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SP8	Special & Controlled Areas	Any imported fill material shall be restricted to 'Virgin excavated natural material' (eg clay, gravel, sand soil and rock) that is not mixed with any other waste. Coal waste materials shall not be used in the construction or maintenance of trails.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SP9	Special & Controlled Areas	New gravel or borrow pits shall not be established within the Special Areas.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SP10	Special & Controlled Areas	In the event Water NSW fire roads are damaged as a result of the works, they shall be repaired as soon as practicable.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
SP11	Special & Controlled Areas	All equipment transported to the site shall be thoroughly washed down, including underneath tractors and slashers, to remove mud, dirt and vegetative materials, prior to entering the Water NSW Special / Controlled Areas.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
1.19	Does the project or work require any vegetation to be cleared?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Clearing means any one or more of the following: (a) cutting down, felling, thinning, logging or removing vegetation, (b) killing, destroying, poisoning, ringbarking, uprooting or burning native vegetation.
1.20	Is the project or work located on, in or adjacent to (within 40m) of a "water land" or waterway?	<input type="radio"/> Yes <input checked="" type="radio"/> No	'water land' means land submerged by water: (a) whether permanently or intermittently, or (b) whether forming an artificial or natural body of water, and includes wetlands and any other land prescribed by the regulations as water land to which this Division applies ⓘ
1.21	Is the project or work likely to result in any soil disturbance?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
1.22	Will the project or work require the stockpiling of any materials?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
1.23	Will the project or work result in the generation of any waste materials?	<input checked="" type="radio"/> Yes <input type="radio"/> No	This may include spoil, concrete, building materials, vegetation, wastewater, oil and grease. Will portable toilets be needed at the site?
1.23.1	Provide details of the nature, amount of waste likely to be generated and proposed disposal	General construction waste.	Refer to <a href="#">Waste Classification Guidelines</a> for classifying waste If the project or work involves the use and disposal of, or exposure to, contaminated/hazardous materials, dangerous goods or controlled chemicals, approval may be required from SafeWork NSW or EPA
<b>WASTE</b>			
Select the appropriate safeguards to manage the impacts			
W1	Waste	All working areas shall be maintained, kept free of rubbish and cleaned up at the end of each working day. Equipment and materials shall be securely stored.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
W2	Waste	If the contractor is working at the same location for more than one day, self-contained portable ablution and toilet facilities shall be provided, unless otherwise specifically negotiated with Water NSW. These facilities shall be located at least 20m from any natural or built drainage line or wetland.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
W3	Waste	The contractor shall be appropriately licensed to remove and dispose of all hazardous materials. Hazardous materials shall be handled and disposed in accordance with relevant Australian Standards, SafeWork NS and regulatory agency (EPA) guidelines.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A

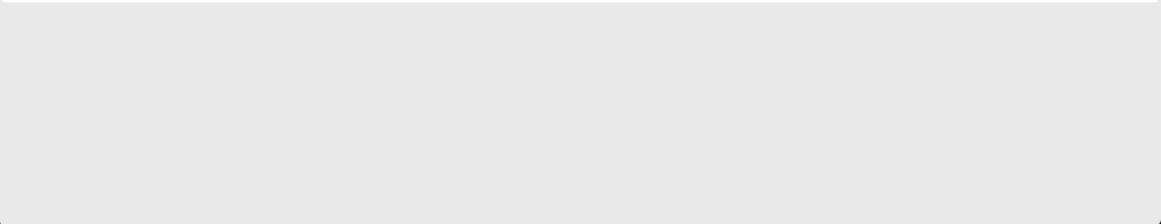
W4	Waste	All waste fluids generated during the works, including concrete wash, the washing of painting equipment and human effluent, shall be contained for proper disposal offsite in accordance with SafeWork NSW and NSW government guidelines.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
W5	Waste	All waste removal, transport and disposal, including excess spoil, shall be in accordance with the EPA current guidelines for waste. Materials shall be recycled wherever possible. Dockets or equivalent evidence shall be obtained for all recycling and waste disposal, detailing the weights, materials, time and date and waste facility used. These dockets shall be available onsite and submitted with monthly reports and placed in ARK folder F2018/3432.	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
1.24	Will the project or work have an impact on members of the public or surrounding areas?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Types of impact may include noise, dust, access, visual amenity. Surrounding land uses may be agricultural/other rural land uses, residential, recreational etc.
1.25	Will the project require new access tracks to be developed or fences to be installed?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
1.26	Are there any impacts on any utilities and/or roads?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Carry out a <del>dial-before-you-dig</del> if necessary or conduct a survey to indicate if any underground infrastructure is present, eg, water, sewer, power, telecommunications, council roads, otherwise contact the supply authority or local Council (cl.13 ISEPP) ⓘ
1.28	Are there any post-construction rehabilitation or future maintenance requirements?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Post rehabilitation may include replanting, rip rap and making good of a disturbed area.
1.28.1	Provide details of impact	-Operation of the flood door -Routine maintenance of the flood door	
<b>SITE DECOMMISSIONING</b>			
Select the appropriate safeguards to manage the impacts			
D1	Site Decommissioning and Restoration	On completion of the works and prior to leaving the site: - all vehicles, construction equipment, materials, waste and excess spoil relating to the works shall be removed from the work site and any adjacent affected areas - all disturbed areas shall be restored with a minimum of 80% cover before removal of temporary control measures - any property or infrastructure that has been damaged as a result of the works shall be repaired, replaced or restored in consultation with Water NSW	<input checked="" type="radio"/> Yes <input type="radio"/> N/A
D2	Site Decommissioning and Restoration	Disturbed areas shall be reseeded wherever there is no local seed source for natural reseeded.	<input type="radio"/> Yes <input checked="" type="radio"/> N/A
D3	Site Decommissioning and Restoration	Any vegetative material retained from any clearing or lopping shall be spread over disturbed areas as surface mulching to assist site revegetation.	<input type="radio"/> Yes <input checked="" type="radio"/> N/A
1.29	Is a Construction Environmental Management Plan (CEMP) required?	<input checked="" type="radio"/> Yes <input type="radio"/> No	A CEMP demonstrates how & where site specific environmental controls or safeguards will be implemented at the project site. Not all projects or works need to have a CEMP prepared, for example small scale works with few potential impacts. The CEMP must address the safeguards identified in the EIA for the project. (refer to CD2015/188* - CEMP Condensed Template)
1.30	Are there any special environmental safeguards, controls or mitigation measures that need to be implemented during this project or works?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Minor and routine works not requiring a CEMP can still require specific mitigation measures.
Thank you for completing <b>Section 1</b> of this Minor Works Environmental Impact Assessment . Ensure you have saved this form to ARK and included the ARK reference number above. Go to myWaterNSW, click 'Request Something' & create a service request for Environmental Services.			Save to ARK and go to <a href="#">myWaterNSW</a> to create a service request
<input checked="" type="checkbox"/>	<b>Environmental Services Team</b> - Once Section 1 has been submitted, check that all questions are completed. If Section 1 is incomplete refer back to the Project Manager with comments. Environmental Services will complete section 2 & 3 of the assessment.		

SECTION 2 ENVIRONMENTAL CONSIDERATIONS			
	QUESTIONS	ANSWERS	HERITAGE TO BE CHECKED
2.1	Will the project / work occur on a heritage item? Is the work site or asset identified on the WaterNSW s170 heritage register or the State heritage register or identified as a local heritage item on the LEP?	<input checked="" type="radio"/> Yes <input type="radio"/> No	<p><i>Heritage to be checked:</i></p> <ol style="list-style-type: none"> <li>WaterNSW S170 Register (D2016/73126)</li> <li><a href="#">NSW Planning Portal</a> ⓘ</li> <li>Relevant Council LEP</li> </ol>
2.1.1	Identify and describe the works with regard to the heritage significance.	Works will occur on Warragamba Emergency Scheme State Heritage Register No. 01376. Minimal impact. Approval granted under fastrack s60. Refer to D2024/23440. Works will have minimal impact on the assets significance.	
2.1.2	Is the item identified on the LEP as locally significant?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<p>If yes notification to Council with provision of a heritage impact assessment for the works is required, and any comments received within 21 days must be considered.</p> <p>Consult the Heritage Specialist for advice ⓘ</p>
2.1.4	Are the proposed works permissible under the Heritage NSW Standard Exemptions?  <i>Consult the Heritage Specialist or Adviser</i>	<input type="radio"/> Yes <input checked="" type="radio"/> No	<p>Refer to the <a href="#">Heritage NSW Standard Exemptions</a> as guidance for works which may be done under the Standard Exemptions if they have little to no impact to an item's heritage significance and meet the relevant standards. If the work can be done as a Standard Exemption it must be recorded in D2020/133333.</p> <p>If the proposed activities/works would not comply with the Standard Exemptions or site-specific exemptions, approval under the Heritage Act 1977 is required.</p> <p>Consult the Heritage Specialist for advice ⓘ</p>
2.1.5	Include details that support the above conclusions and outcomes of consultation with the heritage specialist.	Approval granted from Heritage NSW as per ARK D2024/23440	
2.1.6	Detail specific requirements or measures that need to be included in the Environmental Approval.	Works are to be done in accordance with Heritage NSW approval which can be found in ARK D2024/23440	Any measures provided here are shown in the approval as project specific requirements.
2.2	Are there any: - relevant confirmed site records or other associated landscape feature information on AHIMS? and/or - other sources of information of which a person is already aware? and/or - landscape features that are likely to indicate the presence of Aboriginal objects? - ILUA in place?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<p><b>Landscape features</b> that indicate the likely existence of Aboriginal objects.</p> <p><i>Is the proposed activity</i></p> <ul style="list-style-type: none"> <li>within 200 metres of waters</li> <li>within sand dunes on a ridge top/ridge line/headland</li> <li>within 200 metres of the top or bottom of a cliff face</li> <li>within 20m of or within a cave, rock shelter or a cave mouth</li> </ul> <p>AND the land is NOT previously disturbed ⓘ</p> <p>An <a href="#">Aboriginal Heritage Information Management System (AHIMS) Web Services</a> search must be undertaken using 200m buffer of the project or work and if positive undertake within 50m.</p> <p><a href="#">ILUA - Indigenous Land Use Agreement search tool</a></p>



2024

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**If your search shows Aboriginal sites or places what should you do?**

- You must do an extensive search if AHIMS has shown that there are Aboriginal sites or places recorded in the search area.
- If you are checking AHIMS as a part of your due diligence, refer to the next steps of the Due Diligence Code of practice.
- You can get further information about Aboriginal places by looking at the gazettal notice that declared it. Aboriginal places gazetted after 2001 are available on the [NSW Government Gazette](https://www.legislation.nsw.gov.au/gazette) (<https://www.legislation.nsw.gov.au/gazette>) website. Gazettal notices published prior to 2001 can be obtained from Heritage NSW upon request

**Important information about your AHIMS search**

- The information derived from the AHIMS search is only to be used for the purpose for which it was requested. It is not be made available to the public.
- AHIMS records information about Aboriginal sites that have been provided to Heritage NSW and Aboriginal places that have been declared by the Minister;
- Information recorded on AHIMS may vary in its accuracy and may not be up to date. Location details are recorded as grid references and it is important to note that there may be errors or omissions in these recordings,
- Some parts of New South Wales have not been investigated in detail and there may be fewer records of Aboriginal sites in those areas. These areas may contain Aboriginal sites which are not recorded on AHIMS.
- Aboriginal objects are protected under the National Parks and Wildlife Act 1974 even if they are not recorded as a site on AHIMS.
- This search can form part of your due diligence and remains valid for 12 months.

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Tel: (02) 9585 6345

ABN 34 945 244 274  
Email: [ahims@environment.nsw.gov.au](mailto:ahims@environment.nsw.gov.au)  
Web: [www.heritage.nsw.gov.au](http://www.heritage.nsw.gov.au)

2.2.2	Does the project or work : - fall under an identified low impact activity; and/or - avoid disturbing the ground surface or any culturally modified trees?	<input checked="" type="radio"/> Yes <input type="radio"/> No	Low impact activities are listed in <a href="#">Clause 58</a> and include: - Road/track maintenance on land that has been previously disturbed - Utilities/services maintenance on land that has been - previously disturbed - Fence construction/maintenance on land that has been previously disturbed - Erosion control/soil conservation works construction/ maintenance on land that has been previously disturbed - Exempt development on land that has been previously disturbed - Removing isolated/dead/dying vegetation with minimal disturbance ⓘ
2.3	Is the project or work within or likely to affect any of the following? • Declared Wilderness Area • Declared Area of Outstanding Biodiversity Value • Critical habitat of an endangered species, population or ecological community	<input type="radio"/> Yes <input checked="" type="radio"/> No	There are 49 areas of Wilderness across NSW, 4 affecting the Sydney Drinking Water Catchments: Look up details using NULA.  For land declared critical habitat, check: 1. <a href="#">OEH Critical Habitat Register</a> 2. <a href="#">DPI Fisheries Register of Critical Habitat</a> Exempt development cannot be carried out in critical habitat of an endangered species, population or ecological community (identified under the Biodiversity Conservation Act or the Fisheries Management Act) An Area of Outstanding Biodiversity Value is declared under the Biodiversity Conservation Act 2016 and includes critical habitat.
2.3.1	Add any information relevant to the searches undertaken.	Bionet and NULA searches did not indicate the presence of any items are listed in section 2.3	
2.4	Is the project or works within or likely to affect any of the following areas: • World Heritage Land or land to which SEPP (Coastal Management) 2018 applies • Wetlands and/or migratory birds • National Parks or Land covered by a Conservation Agreement	<input type="radio"/> Yes <input checked="" type="radio"/> No	The Warragamba Special Area is within the Greater Blue Mountains <a href="#">World Heritage Area</a> .  See SEPP (Exempt & Complying Development) 2008 <a href="#">Clause 1.5</a> for inclusions of environmentally sensitive areas, use hyperlink to check:  - an <a href="#">aquatic reserve</a> under the Fisheries Management Act 1994 or a <a href="#">marine park</a> under the Marine Parks Act 1997  - A <a href="#">RAMSAR wetland</a> or a <a href="#">World Heritage</a> area declared under the World Heritage Convention ⓘ  If works will impact on National Park or area with a conservation agreement consultation is required.
2.5	Are there any known contamination/ hazardous materials issues?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Examples may include asbestos, contaminated soil. <a href="#">NULA Contaminated Land Risk Register (D2016/135491)</a> and <a href="#">Hazardous Materials Register (D2015/74763)</a> . Register - Gauging Stations, 26 November 2014 - Asbestos NSW Office of Water D2015/74762
2.6	Does the project or works require consent under State Environmental Planning Policy (Vegetation Non-Rural Areas) or the Local Land Services Act 2013?  <b>Note:</b> Vegetation removal that is part of an activity that is assessed as development without consent is approved under Part 5 of the EP&A Act, removing the need for Council consent or LLS Act approval.	<input type="radio"/> Yes <input checked="" type="radio"/> No	Vegetation clearing works are likely to be permissible as part of an activity that is being assessed under Part 5 of the EP&A Act or; as works under a WM Act approval or; as bush fire management activities and authorised by other legislation. Additional permissibilities under the LLS Act and State Environmental Planning Policy (Vegetation- Non-Rural Areas) 2017. Refer to the Local Land Services Act 2013 Section 60 O for a list of authorisations and permissibilities.  <b>Use the <a href="#">OEH Native Vegetation Regulatory Maps</a> to determine vegetation category.</b>
2.6.1	Provide details	Tree removal is not part of the scope of works	Ensure no ancillary activities require clearing.  Record justification if clearing can be undertaken without approval.  Attach evidence of consultation where required.
2.7	Is the project or work likely to have only a minimal impact on the environment?	<input type="radio"/> Yes <input checked="" type="radio"/> No	A project is likely to have more than a minimal impact if for example:  • a license or permit is required • it is carried out in a waterway where flow interruptions are required • there is likely to be a community impact • it will result in the clearing of mature trees or a large area of understorey or native grasses • it will impact on an aboriginal heritage item • it will result in largescale soil disturbance • it will result in an increase in hard surfaces • it will result in the creation of new tracks, roads

			• it will result in more than minimal modifications / alterations to items of State or local significance ⓘ
2.7.1	Provide any additional information relevant to and that supports the above assessment.	Works are on a state heritage listed item, however approval has been granted as per D2024/23440.	Details here will not appear elsewhere on the approval
2.7.4	Does the project or work fall within one of the development categories permitted without consent listed under SEPP Infrastructure 2007 and does the project or work comply with any criteria specified in the relevant clause?	<input checked="" type="radio"/> Yes <input type="radio"/> No	If there is no applicable development category, consider what approval mechanism is most likely to apply for the project. ⓘ
2.7.5	Detail the planning instrument, development category and development without consent type that best describes the project or works?	Division 24 Water Supply Systems 2.159 Development permitted without consent (1) Development for the purpose of water reticulation systems may be carried out by or on behalf of a public authority without consent on any land.	
<b>Complete Section 3 Minor Works Review of Environmental Factors</b>			
2.8	Are there any special environmental safeguards, controls or mitigation measures that need to be implemented during this project or works?	<input type="radio"/> Yes <input checked="" type="radio"/> No	
2.9	Does the project or works require notification under the <a href="#">Fisheries Management Act</a> ?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Activities that could trigger requirement include: • Dredging or reclamation on water land (S198A and C263) • Construction, alteration or modifications to a dam, weir or reservoir (S218) • Interruptions to water flows or does the project or work obstruct the passage of fish (S219) ⓘ

### SECTION 3 MINOR WORKS REVIEW OF ENVIRONMENTAL FACTORS

	QUESTIONS	ANSWERS	GUIDANCE
3.1	Are the project or works outside of standard construction hours (refer 1.10)?	<input type="radio"/> Yes <input checked="" type="radio"/> No	The planned site work hours were identified at 1.10. Standard Hours are : Mon-Fri 7am-6pm, Sat 8am-1pm, No work Sunday or Public Holidays. Non-standard hours may require additional noise assessments to be prepared. Refer - NSW EPA Interim Construction Noise Guidelines for assessment guidance
3.2	Does the project or work require a permit/ approval under the Water Act and/or Water Management Act?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Activities that could trigger requirement include: • Water supply, drainage or flood works • Affect flow of water to or from river or lake (e.g. a levee on a floodplain) • Water use (e.g. water extraction from a river) ⓘ
3.3	Does the project or work require a permit/ approval/consultation from any other relevant authorities/agencies?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Note: Relevant authorities/ agencies may include, but are not limited to: • LLS (natural resource management) • OEH (works adjacent to land reserved under National Parks & Wildlife Act) • DPI – NSW Crown Lands Division • DPI – State Forests • Local Council ( flood liable land) • Roads and Maritime Services (works affecting RMS roads or in navigable waters) • MDBA (River Murray works) • <a href="#">ISEPP consultation</a>
3.4	Will the project or work involve working in the riverine land of the Murray River, the waters and the bed and banks of its tributaries and associated water bodies OR along the NSW Border?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Check map indexes to see affected areas STW130254 e.g. Conargo, Corowa, Deniliquin, Hume, Murray, Wakool, Wentworth and Windouran ⓘ
3.5	Will the project or work (including any access tracks or ancillary works) affect, or likely to affect, any threatened species, population, ecological community or their habitat? (this includes State or Commonwealth listings)	<input type="radio"/> Yes <input checked="" type="radio"/> No	Check: 1. <a href="#">OEH Critical Habitat Register</a> 2. <a href="#">OEH BioNet - NSW Wildlife Atlas Search</a> 3. <a href="#">Threatened fish species</a> ⓘ <a href="https://www.environment.gov.au/epbc/what-is-protected">https://www.environment.gov.au/epbc/what-is-protected</a>

3.6	Will the project or work have an affect on a Matter of National Environmental Significance?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<i>The <a href="#">EPBC Search Tool</a> can be used to find out if an area is likely to contain MNES. For guidance on undertaking an Assessment of Significant Effect refer to DOC15/7577 </i>
3.7	Are there any special environmental safeguards, controls or mitigation measures that need to be implemented during this project or works?	<input type="radio"/> Yes <input checked="" type="radio"/> No	<i>Is there anything special about the site that needs to be protected? Are there any site specific controls or measures that you think the contractor needs to understand and follow?</i>
3.8	Is the activity likely to significantly affect the environment including, critical habitat, threatened species, populations or ecological communities or their habitats?	<input type="radio"/> Yes <input checked="" type="radio"/> No	Part 5 of EP&A Act, states if the activity is "likely to significantly affect the environment (including critical habitat) or threatened species, populations or ecological communities, or their habitats", then there is likely to be a significant impact and an EIS/SIS must be prepared, see Sections 5.1 & 5.5.
Section 4 - Environmental Approval needs to be completed, finalised and sent to the Project Manager			

SECTION 4 ENVIRONMENTAL APPROVAL			
<b>Project Details</b>			
myWaterNSW Request #: RITM	RITM0646119	ARK Minor Works EIA Form #	D2024/24532[V1]
WaterNSW Contact	[REDACTED]	Project Location	Warragamba DWPS Adit Tunnel
Project Title	Warragamba DWPS Flood Door		
Approved Activity	Scope of works: - geotechnical investigation by coring rock sample to confirm rock strength of the adit tunnel at the proposed flood door locations. The core size will be 100mm diameter maximum with length of 300mm long. - installation of new metal flood doors with concrete plugs at the upper end and lower end of the adit tunnel as per design drawings.		
<b>Project Manager Responsibilities</b>			
In carrying out the project or works, it is the Project Manager's responsibility to ensure that the works are carried out as described within this assessment and that all safeguards listed within this approval are complied with. The Project Manager must also ensure that all licences, permits and approvals are obtained and maintained as required and that all statutory and regulatory requirements are complied with throughout the project or works. The Project Manager is also to ensure compliance with the Building Code of Australia and other relevant technical, manufacturer or industry standards.			
<b>CEMP Requirement</b>			
A Construction Environmental Management Plan (CEMP), or equivalent, shall be prepared addressing the environmental safeguards identified in the EIA approval and any appropriate industry standards. The CEMP shall be submitted to the Environmental Services team for review and approval prior to on-ground works commencing.			
<b>Environmental Safeguards</b>			
<b>General</b>			
G1	All WaterNSW Work Health and Safety requirements must be adhered to.		
G2	All complaints and compliments shall be directed to - <a href="mailto:feedback@waterNSW.com.au">feedback@waterNSW.com.au</a> or 1300 662 077.		
G3	All environment incidents shall be addressed in accordance with WaterNSW's Environmental Incident Management Procedure <b>CD2016/6*</b> .		
G4	If works have not commenced within 2 years of this approval, the EIA form must be re-submitted prior to the commencement of works, to ensure the controls remain in line with current legislation and internal procedures including re-approval by the Environmental Services team.		
G5	Site inductions shall include all aspects, impacts and controls identified in the EIA/REF and Environmental Approval.		
G6	For any shutdown, completion of Site Shutdown (RACS requirement) shall be completed at least 24 hours prior to shutdown commencing.		
G7	Approved Standard Hours are : Mon-Fri 7am-6pm, Sat 8am-1pm, No work Sunday or Public Holidays. For any proposed works outside approved standard construction hours, an Out of Hours Application <b>CD2015/210*</b> shall be submitted to the Environmental Services team, allowing 10 working days for approval.		
G8	If any items which have the potential to be of heritage significance are encountered, works shall cease until the significance of the item can be established. The Water NSW Environmental Services Team should be contacted for advice on the appropriate course of action to take.		
G9	If any Aboriginal cultural material (e.g. relics such as stone tools, worked bone or fire hearths) is encountered within or immediately adjacent to the work area, work shall stop immediately until the significance of the item can be established. Water NSW Procedure <b>CD2012/184*</b> - Unexpected Aboriginal Objects Procedure should be followed.		
G10	All sediment and erosion controls shall be installed according to the requirements of <i>Managing Urban Stormwater: Soils and Construction - Volume 1, 4th Edition 'Blue Book'</i> .		
G11	WaterNSW Tree Clearing Permit CD2021/110* must be completed and authorised by the works supervisor before vegetation removal activities commence.		
<b>Community</b>			
<b>Traffic and Utilities</b>			
<b>Special and Contolled Areas</b>			
SP1	All activities or work undertaken in Water NSW Special / Controlled Areas shall be carried out in a manner that will prevent or minimise impacts on water quality, environmental damage and fire.		
SP2	Standard access requirements of Water NSW catchment lands shall be observed. This includes restricted access to the catchment after periods of significant rainfall (typically 10mm in a 24 hour period).		
SP3	All gates and barriers shall be closed and locked at all times to prevent unauthorised access to the Special/Controlled Area		

SP4	Any suspected unauthorised access to the area shall be reported to the Water NSW supervisor and report in RACS system.
SP5	All incidents, spills or fire sightings that occur in the WaterNSW Special / Controlled Area shall be immediately reported to the Water supervisor/Project Manager and reported in RACS system.
SP6	Works shall not be undertaken and vehicles shall not travel on unsealed roads in the Water NSW Special / Controlled Areas when road surfaces are saturated, water is flowing down table drains or the catchment has been closed by Water NSW.
SP7	Portable fuel trailers shall be taken off catchment at the end of each working week.
SP8	Any imported fill material shall be restricted to 'Virgin excavated natural material' (eg clay, gravel, sand soil and rock) that is not mixed with any other waste. Coal waste materials shall not be used in the construction or maintenance of trails.
SP9	New gravel or borrow pits shall not be established within the Special Areas.
SP10	In the event Water NSW fire roads are damaged as a result of the works, they shall be repaired as soon as practicable.
SP11	All equipment transported to the site shall be thoroughly washed down, including underneath tractors and slashers, to remove mud, dirt and vegetative materials, prior to entering the Water NSW Special / Controlled Areas.
<b>Soil and Water</b>	
SW1	All works shall be undertaken in a manner that will minimise site disturbance and avoids or minimise erosion and sedimentation.
SW2	All areas disturbed during the works shall be protected by installing appropriate erosion and sedimentation control measures so that sediment-laden runoff does not enter any drainage line or wetland. Measures may include: <ul style="list-style-type: none"> <li>o diverting any potential upslope runoff and stormwater away from the site;</li> <li>o installing temporary erosion control devices (eg sediment fencing, sand bags, sediment basins);</li> <li>o temporary surface protection (eg surface mulching, geotextile/erosion control matting).</li> </ul>
SW3	All erosion and sediment control measures shall be checked and maintained on a regular basis so that they work effectively at all times, including removing trapped sediment before or when 30% capacity is reached. Control measures shall not be removed before the ground surface is stabilised.
SW4	A maintenance checklist shall be prepared for sites. Records shall be kept of all checks and maintenance and shall be provide to Water NSW on request. As a minimum this shall include a regular check of: <ul style="list-style-type: none"> <li>o sediment fencing/bunding</li> <li>o any sign of erosion of the site or material</li> <li>o any impact on adjacent vegetation (material shall be kept outside the dripline of any tree)</li> <li>o the safe storage of any chemicals, fuels or lubricants</li> <li>o the height, gradient and stability of any stockpile (&lt;2m high and 2:1 slope)</li> </ul>
SW5	Chemicals, fuels and lubricants shall be securely stored in approved containers and spill containment material shall be kept on site ready for immediate use. Bund capacity is to be at least 110 % of the largest container & 25% of the total stored volume
SW6	No chemicals, fuels and lubricants shall be shall be stored overnight on site unless specifically approved by Water NSW. If approved, these materials shall be stored with bunding within an established site compound, on a level area clear of native vegetation and at least 40m from any natural or built drainage line or wetland.
SW7	Plant and equipment shall not be refuelled within 20m of any natural or built drainage line or wetland. During any refuelling, spill containment material shall be on hand ready for immediate use.
SW8	Weather forecasts shall be regularly checked so that expected storm events can be taken into account in project planning and erosion and sediment management.
SW9	Temporary compounds and stockpiles shall be located: <ul style="list-style-type: none"> <li>o at least 40m from natural or built drainage lines or wetland;</li> <li>o on areas previously disturbed and that do not require the clearing of native vegetation;</li> <li>o on level, hard ground wherever possible, and shall not be located on slopes steeper than 1(V):10(H);</li> <li>o beyond tree drip lines;</li> <li>o where there is no risk of impact on any indigenous or non-indigenous heritage site.</li> </ul>
SW10	Topsoil shall be stockpiled separately from general spoil and reused wherever possible.
SW11	Concrete shall not be mixed within 20m of any natural or built drainage line or wetland. All concrete waste and any concrete washout shall be contained and removed for disposal off site at a lawful facility. Washout of trucks on site shall be minimised wherever possible.
<b>Flora and Fauna</b>	
<b>Pest and Weed Control</b>	
<b>Air Quality</b>	
<b>Noise and Vibration</b>	

<b>Heritage</b>	
<b>Waste</b>	
W1	All working areas shall be maintained, kept free of rubbish and cleaned up at the end of each working day. Equipment and materials shall be securely stored.
W2	If the contractor is working at the same location for more than one day, self-contained portable ablution and toilet facilities shall be provided, unless otherwise specifically negotiated with Water NSW. These facilities shall be located at least 20m from any natural or built drainage line or wetland.
W3	The contractor shall be appropriately licensed to remove and dispose of all hazardous materials. Hazardous materials shall be handled and disposed in accordance with relevant Australian Standards, WorkCover and regulatory agency (EPA) guidelines.
W4	All waste fluids generated during the works, including from the washing of painting equipment and human effluent, shall be contained for proper disposal offsite in accordance with Workcover and NSW government guidelines.
W5	All waste removal, transport and disposal, including excess spoil, shall be in accordance with the regulatory agency's (EPA) current guidelines for waste. Materials shall be recycled wherever possible. Dockets or equivalent evidence shall be obtained for all recycling and waste disposal, detailing the weights, materials, time and date and waste facility used. These dockets shall be available onsite and submitted with monthly reports.
<b>Site Decommissioning and Restoration</b>	
D1	On completion of the works and prior to leaving the site: <ul style="list-style-type: none"> <li>- all vehicles, construction equipment, materials, waste and excess spoil relating to the works shall be removed from the work site and any adjacent affected areas</li> <li>- all disturbed areas shall be restored with a minimum of 80% cover before removal of temporary control measures</li> <li>- any property or infrastructure that has been damaged as a result of the works shall be repaired, replaced or restored in consultation with Water NSW</li> </ul>
<b>Fencing</b>	
<b>PROJECT SPECIFIC SAFEGUARDS</b>	
<b>STAKEHOLDER REQUIREMENTS</b>	
SR2	Works are to be done in accordance with Heritage NSW approval which can be found in ARK D2024/23440
<b>DECLARATION AND SIGN-OFF</b>	
<p>The REF has been prepared in accordance with Section 5.5 of the <i>Environmental Planning and Assessment Act 1979</i> (EP&amp;A Act). Under Part 5 of the EP&amp;A Act, WaterNSW is both the proponent and determining authority for the proposed activity. The State Environmental Planning Policy (Infrastructure) 2007 allows the proposal to be carried out without development consent. WaterNSW has prepared this REF in accordance with Clause 228 of the Environmental Planning and Assessment Regulation 2000.</p> <p>On the basis of the assessment and having taken into account to the fullest extent possible all matters likely to affect the environment as a result of the proposed activity, it is concluded that, by adopting the measures identified in the REF, there is unlikely to be a significant environmental impact as a result of undertaking the proposed activity. Accordingly, an Environmental Impact Statement (EIS) is not required.</p> <p>If the scope of work or work methods described in this report change either prior to or during works, additional Environmental Impact Assessment must be undertaken.</p>	
Approval ARK # ⓘ	D2024/24532[V2]
<b>Environmental Adviser Approval</b> Environmental Impact Assessment for Minor Works was approved/endorsed by	