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.

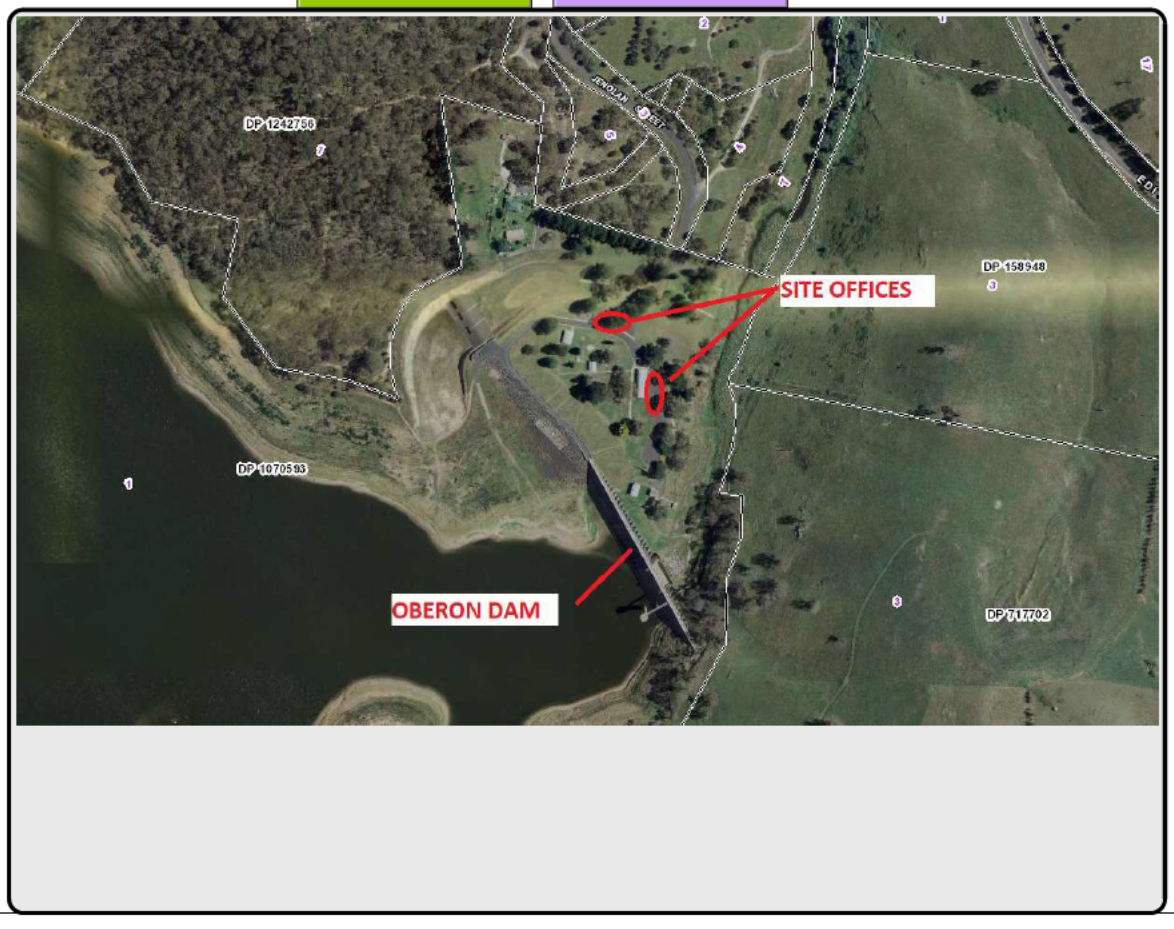
If you are unsure how to answer anything in this Form, please contact the Environmental Services Team for assistance and advice.

SECTION 1 PROJECT SCOPE

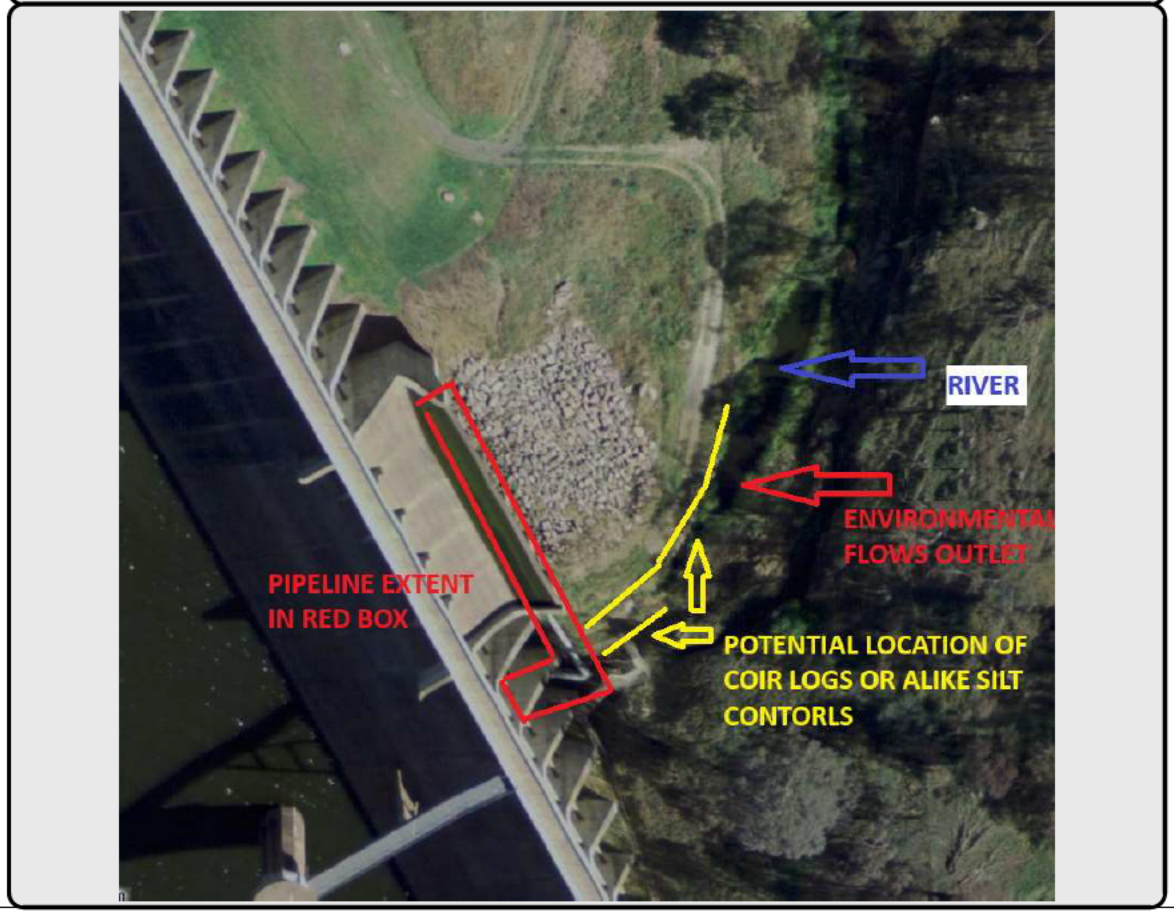
	QUESTIONS	ANSWERS	GUIDANCE
1.1	Organisation/Business Unit/Team	Operations	
1.2	WaterNSW representative and contact details	[redacted]	
1.3	Has a site inspection been undertaken? If so by whom and when?	[redacted] WaterNSW Project Engineer) October 2023	*It is recommended the person undertaking site inspection should also complete this Form.*
1.4	ARK Reference – Project Folder/Work Folder	D2023/158389 - F2021/4207	*Save your work to ARK and include the ARK numbers here. Provide project/works folder for background information*
1.5	Project Number/Budget Code	[redacted]	*Environmental Services time taken to process this request will be assigned to the project.* ⓘ
1.6	Project or Works Value	$1.2 Million	
1.7	Project or Works Title	Oberon Dams Renewal Project	*Include the full name for the project or work you propose undertaking.*
1.8	**Scope of Works**: What is to be undertaken and how?	Setup site compound (site sheds, lunch rooms, skip bins, portable 10kVa generator, stockpiles) and connect to power. Use existing WaterNSW toilet facilities, setup parking area exclusion zone from public access and install advisory signage. Plant used includes 15t truck table top, vacuum truck, multiple utes, portable pumps, compactor, excavator, dump truck, crane. Install sediment controls which will be details in the CEMP. Take samples of materials (soil, water, paint, air) for testing to determine hazardous material presence (including lead and asbestos) both before the works start and after they are completed. Install and maintain air monitoring devices throughout the works. Install sandbags at buttress walls to resist backflow of water into the dam bays and regularly dewater pooling water in the dam bays into the river. At project start pump out pooled water, sludge and solids from within the flooded dam bays/ buttress areas and dispose offsite at a licensed facility to provide unobstructed access and view of the ground to install the encapsulation in these bays. Cut existing vegetation/grass along existing access tracks and proposed area of works, excavate unsuitable materials (topsoil) where required, the extent of this will be minimized, to enable installation over these tracks a layer of rockfill/roadbase to create a sturdy trafficable zone. Install a hardstand area (flat are built up of compacted gravels on the existing ground) for portable encapsulation decontamination area (showers, change room) to be installed. Materials excavated and delivered will be stockpiled on site for use at appropriate times. Build a temporary framed scaffolding structure which shall be covered with appropriate material to make an encapsulation to meet regulatory and environmental hygienist requirements to enable removal of existing lead paint. The encapsulation shall have air and vacuum pumps, dehumidifiers and heaters present to regulate the atmosphere in the encapsulation so it meets paint application requirements. The section under the dam spillway will have a secondary scaffold structure which shall deflect spilling waters away from directly hitting the encapsulation. The structures may need to be attached to the existing dam walls with screwed in bolts or alike. A lead control plan shall be developed to detail the control requirements to be implemented during the works. Within the dam bays remove existing rocks/fill as necessary and install scaffolding and pipe encapsulation. Existing fencing beside the pipeline will be removed during the works (replaced after completion) and replaced with temporary fencing'	*Clearly outline the full scope of work and activitiies, 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.*

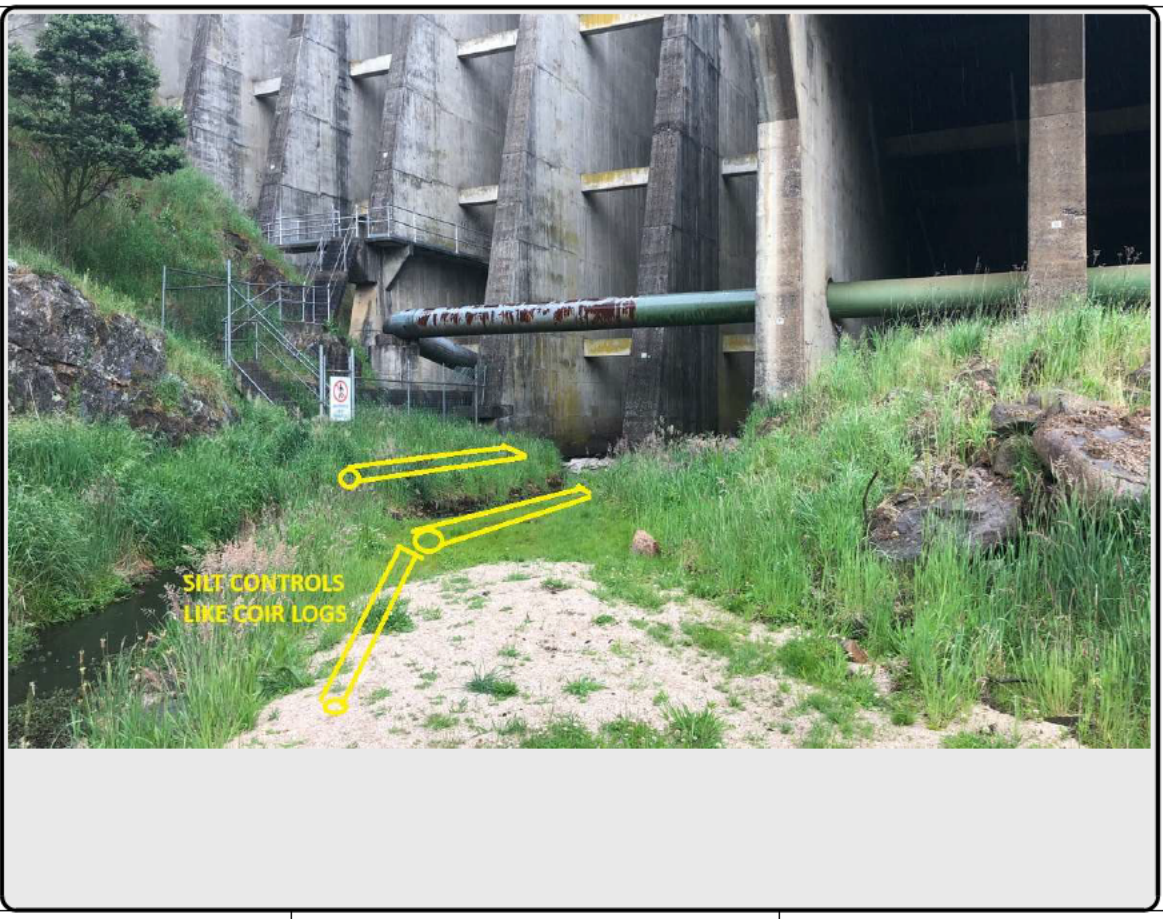
		Existing paint coating (lead paint) of the outlet pipe shall be abrasive blast or mechanically tool removed under the supervision of an environmental hygienist and new paint coating applied by qualified painters. Remove from encapsulation contaminated materials for offsite disposal at a licensed facility, including undertake testing of materials. Replace existing pipe hold down straps and fixings, some breakout of old concrete may be required. Demobilise from site by removing sandbags, roadbase (or alike), bins and waste and sediment controls, topsoil to be returned to areas where it was removed and disturbed grassed areas to be regressed.	
1.9	Proposed Start Date and Expected Duration of works	Start = January 2023, Duration 4 months	
1.10	Planned Site Work Hours	Standard Hours	*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*
1.11	One-off Project or Routine work	✓ One Off ○ Routine	
1.11.2	Options considered & justification for selecting the preferred option.	In a proactive approach to ensure ongoing capability of water supply option 1 was selected Option 1 - provide a renewed protective layer to the steel pipe increasing its life expectancy for another 25+ years Option 2 - risk prioritised internal lining repairs Option 3 - - Do nothing, the existing coating will further degrade and more parts of the pipe will develop corrosion which will eventually lead to steel pitting and requirement for pipe replacement which could impact ability to supply water to users	*Describe all options that were considered and why the preferred option was selected.*
1.12	Location	Oberon Dam, NSW, including access tracks from public parking areas to the dam concrete structure	*Identify the location of the project or work (e.g. which asset). Be sure to include the access roads / route*
1.13	Site Plan / Photos / Aerial Photo: Add Figures or ARK reference to figures		

Add Figure or Photo Remove Figure or Photo




LIMIT OF WORKS
PIPE TO BE
PIPELINE PAINTING
LIMIT OF WORKS


RIVER
ENVIRONMENTAL
FLOWS OUTLET
PIPELINE EXTENT
IN RED BOX
POTENTIAL LOCATION OF
COIR LOGS OR ALIKE SILT
CONTORLS



1.14	Is the land and/or asset owned by WaterNSW?	✓ Yes ○ No	*Site ownership details can be found at;* *Vested orders (DOC11/8076)* *Land Titles Office* *NULA* ⓘ
1.14.1	Provide evidence of ownership and detail what the land is used for	WaterNSW GPR – July 2021 via NULA	*Provide details of landuse e.g operational area, Special Area, Controlled Area, recreational area, agricultural area etc* ⓘ *http://www.waternsw.com.au/supply/Greater-Sydney/system* *NULA*
1.15	Lot and DP	Lot 1 DP 1070593	*Find a property using NULA or the NSW Planning Portal*
1.16	What is the Local Government Area (LGA)?	Oberon LGA	*Use:* *1. LPI SIX Maps or 2. NSW Planning Portal or 3. NULA*
1.17	What is the zoning of the site?	RU1 – Primary production	*Provide details of the zoning from the relevant Local Environmental Plan(s)* ⓘ
1.18	Will the project or work be within the Sydney Drinking Water Catchment and/or a Special Area / Controlled Area?	○ Yes ✓ No	*Check NULA 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**
1.19	Does the project or work require any vegetation to be cleared?	✓ Yes ○ 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.*
1.19.1	Describe the nature, extent and location of the clearing.	Small shrubs/trees may be pruned or removed on a as needs basis. Grass to be mowed leading to downstream side of dam structure spillway. Steep and soft existing tracks leading to the pipe may require a rockfilled or hardstand area from gravel/sand (similar to DGB40) to be installed over existing grassed area and beside river	*Details to be included; the area of vegetation to impacted, the type of vegetation to be cleared and how the vegetation will be impacted.* *http://www.environment.nsw.gov.au/vegetation/noapproval.htm* ⓘ Refer *Tree Clearing Permit CD2021/110** before commencing.

FLORA AND FAUNA			
Select the appropriate safeguards to manage the impacts			
FF1	Flora and Fauna	Vegetation disturbance or clearing shall be minimised to the greatest degree practical and only in accordance with EIA approval.	☑ Yes ☐ N/A
FF2	Flora and Fauna	Slashing groundcover shall be limited to a height of 150 to 200mm.	☑ Yes ☐ N/A
FF3	Flora and Fauna	Any vegetative material that has been cleared, lopped or otherwise removed shall be retained and used as surface mulching to assist site revegetation on completion of the works.	☑ Yes ☐ N/A
FF4	Flora and Fauna	Fallen logs shall be pushed out of the work areas and into adjoining areas wherever possible. Cutting up of logs over 40cm diameter with hollows shall be minimised.	☐ Yes ☑ N/A
FF5	Flora and Fauna	Disturbance of rock ledges, caves, overhangs and surface bush rock shall be avoided wherever possible.	☐ Yes ☑ N/A
FF6	Flora and Fauna	Retained vegetation and trees shall be protected from accidental damage, encroachment or smothering by temporary fencing, flagging or similar. Drip lines of trees are to be avoided.	☑ Yes ☐ N/A
FF7	Flora and Fauna	All equipment transported to the site shall be free of contaminants such as weeds.	☑ Yes ☐ N/A
FF8	Flora and Fauna	Undertake preclearance check including demarkation of trees and inspection for habitat features (e.g. tree hollows, nests etc) / fauna (engagement of ecologist required). Where possible clearing of vegetation with habitat features should be undertaken during summer to minimise potential impacts to nesting fauna.	☐ Yes ☑ N/A
PEST AND WEED CONTROL			
Select the appropriate safeguards to manage the impacts			
P1	Pest and Weed Control	Control of weeds shall be undertaken by using appropriate government and industry accepted control methods. Removal of weeds from the site shall be properly disposed of at an appropriately licensed waste facility.	☑ Yes ☐ N/A
P2	Pest and Weed Control	Notification of neighbours and other stakeholders shall be undertaken as required by the current relevant Pesticide Control Order issued under the Pesticides Act 1999 and in accordance with the Water NSW Pesticide Use Notification Plan.	☐ Yes ☑ N/A
P3	Pest and Weed Control	Herbicides and pesticides shall be stored and used in accordance with the relevant label directions, registration or permit conditions issued under the Agricultural & Veterinary Chemical Code (NSW) Act 1994 and Pesticides Act 1999 and Code of Practice issued by WorkCover NSW.	☐ Yes ☑ N/A
P4	Pest and Weed Control	Mixing or decanting of herbicides shall not be undertaken within 20m of any natural or built drainage line or wetland.	☐ Yes ☑ N/A
P5	Pest and Weed Control	All vehicles, vessels and equipment transported to the site shall be free of contaminants such as weeds. Care shall also be taken to ensure all vehicles, vessels and equipment are free of aquatic weeds and their seeds before leaving the site.	☑ Yes ☐ N/A
P6	Pest and Weed Control	All debris from control works shall be removed from flood-prone areas and only left onsite with approval of WaterNSW	☑ Yes ☐ N/A
P7	Pest and Weed Control	Ensure record keeping of pesticide application compliant with the NSW Pesticides Regulation (2017).	☐ Yes ☑ N/A
1.20	Is the project or work located on, in or adjacent to (within 40m) of a "water land" or waterway?	☑ Yes ☐ 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* ⓘ
1.20.1	Provide details	Oberon Dam stores water for Oberon Lake on upstream side. Downstream side is the start of the Fish River	*Details to be included; name of waterway / waterbody , the proximity of works to the waterway / waterbody*
1.21	Is the project or work likely to result in any soil disturbance?	☑ Yes ☐ No	

1.21.1	Describe details including the extent of soil disturbance, types of machinery to be used and the location of disturbance and any stockpiles.	existing unsealed access tracks needing to be upgraded by excavating top soil and rockfill to enable plant movement to work site over a firmer foundation. Scaffold installation would be near existing downstream stair beside Fish River, foundations may need localised displacement of soil to provide a level foundation. Flat body truck access is by an existing unsealed track	
1.22	Will the project or work require the stockpiling of any materials?	☑ Yes ○ No	
1.22.1	Provide details of the nature and extent of the stockpiling	grass, topsoil and rockfill stockpiled near spillway (uphill of)	*Details to be included; materials to be stockpiled, length of stockpiling and the proposed location of the stock pile*
SOIL AND WATER			
Select the appropriate safeguards to manage the impacts			
SW1	Soil and Water	All works shall be undertaken in a manner that will minimise site disturbance and avoids or minimises erosion and sedimentation.	☑ Yes ○ N/A
SW2	Soil and Water	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: o diverting any potential upslope runoff and stormwater away from the site; o installing temporary erosion control devices (eg sediment fencing, sand bags, sediment basins); o temporary surface protection (eg surface mulching, geotextile/erosion control matting).	☑ Yes ○ N/A
SW3	Soil and Water	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.	☑ Yes ○ N/A
SW4	Soil and Water	A maintenance checklist shall be prepared for sites. Records shall be kept of all checks and maintenance and shall be provided to Water NSW on request. As a minimum this shall include a regular check of: o sediment fencing/bunding o any sign of erosion of the site or material o any impact on adjacent vegetation (material shall be kept outside the dripline of any tree) o the safe storage of any chemicals, fuels or lubricants o the height, gradient and stability of any stockpile (<2m high and 2:1 slope)	☑ Yes ○ N/A
SW5	Soil and Water	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	☑ Yes ○ N/A
SW6	Soil and Water	No chemicals, fuels and lubricants 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.	☑ Yes ○ N/A
SW7	Soil and Water	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.	☑ Yes ○ N/A
SW8	Soil and Water	Weather forecasts shall be regularly checked so that expected storm events can be taken into account in project planning and erosion and sediment management.	☑ Yes ○ N/A
SW9	Soil and Water	Temporary compounds and stockpiles shall be located: o at least 40m from natural or built drainage lines or wetland; o on areas previously disturbed and that do not require the clearing of native vegetation; o on level, hard ground wherever possible, and shall not be located on slopes steeper than 1(V):10(H); o beyond tree drip lines; o where there is no risk of impact on any indigenous or non-indigenous heritage site.	☑ Yes ○ N/A

SW10	Soil and Water	Topsoil shall be stockpiled separately from general spoil and reused wherever possible.	☑ Yes ☐ N/A
SW11	Soil and Water	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.	☑ Yes ☐ N/A
SW12	Soil and Water	Waste water generated during works shall be captured and: - tested and treated before release back into the environment ensuring all water quality criteria are met; - disposed offsite at a lawful receiving facility; - sediment laden waters can be discharged in a manner that prevents sediments entering natural or built drainage lines or wetlands.	☑ Yes ☐ N/A
SW13	Soil and Water	Silt booms shall be installed in the stream or water body around the work site, or immediately downstream. The silt booms shall be appropriately anchored to maximise the capture of any sediment laden water.	☑ Yes ☐ N/A
SW14	Soil and Water	Any mixing of paints is to be carried out over a waterproof membrane of at least 4 square metres in area. The contractor is to take all reasonable steps to prevent spillage of paint.	☑ Yes ☐ N/A
1.23	Will the project or work result in the generation of any waste materials?	☑ Yes ☐ 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	cement, general solid waste, hazardous waste (lead), building and demolition waste, including spoil, grass, top soil. Quantities unknown but estimates at 5-10 tonne (excluding soils).	Refer to Waste Classification Guidelines 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 maybe required from SafeWork NSW or EPA
WASTE			
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.	☑ Yes ☐ 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.	☑ Yes ☐ 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.	☑ Yes ☐ 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.	☑ Yes ☐ 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.	☑ Yes ☐ N/A
1.24	Will the project or work have an impact on members of the public or surrounding areas?	☑ Yes ☐ No	*Types of impact may include noise, dust, access, visual amenity. Surrounding land uses may be agricultural/other rural land uses, residential, recreational etc.*
1.24.1	Provide details of the impact e.g. access, noise disturbance, dust.	The public parking areas will be reduced in size, toilet facilities will be shared with Contractor and public. There will also be increased noise, dust, traffic and personnel movements.	
COMMUNITY			

Select the appropriate safeguards to manage the impacts			
C1	Community	A Community Engagement Plan, or equivalent, shall be prepared to the satisfaction of the Water NSW Communications Team before work commences.	☑ Yes ☐ N/A
C2	Community	All contractors' (and any sub-contractors') personnel employed for the works shall maintain a tidy appearance and exercise courtesy in all dealings with the public.	☑ Yes ☐ N/A
C3	Community	All access through, or work within any private property shall be undertaken with a minimum if inconvenience to the owner/ occupier	☐ Yes ☑ N/A
NOISE AND VIBRATION			
Select the appropriate safeguards to manage the impacts			
N1	Noise and Vibration	All practicable and feasible measures shall be taken to minimise noise. All vehicles, plant and equipment shall comply with relevant EPA and Workcover requirements.	☑ Yes ☐ N/A
N2	Noise and Vibration	For any work approved to be undertaken outside standard hours, the emitted noise should not exceed the background noise level + 5dB(A)	☐ Yes ☑ N/A
AIR QUALITY			
Select the appropriate safeguards to manage the impacts			
AQ1	Air Quality	All practicable and feasible measures shall be taken to avoid raising excessive levels of dust.	☑ Yes ☐ N/A
AQ2	Air Quality	All vehicles, plant and equipment shall be properly maintained to reduce vehicle and plant emissions. If visible smoke is seen for longer than 10 seconds duration from any engine while working on the site, the machine shall be taken out of service and adequately tuned or repaired so that such extended smoke emission no longer occurs.	☑ Yes ☐ N/A
AQ3	Air Quality	Wherever possible, vehicles, plant and equipment shall be switched off when not in use.	☑ Yes ☐ N/A
AQ4	Air Quality	Hazardous material shall be handled as per relevant guidelines to avoid potential air pollution.	☑ Yes ☐ N/A
1.25	Will the project require new access tracks to be developed or fences to be installed?	☑ Yes ☐ No	
1.25.1	Provide details of proposed access	Existing unselaed access tracks will be used to gain entry to the downstream side of dam. Temporary security fencing will be required to work zones to restrict accidental and deliberate access around site shed and near scaffolding at fish river. All exist within WaterNSW land.	*Provide details of the proposed access to the site e.g. existing sealed/unsealed road, new track, location. Details to be included e.g. is it permanent or temporary, what will it be made of, length, properties that it will traverse etc*
FENCING			
Select the appropriate safeguards to manage the impacts			
F1	Fencing	Fencing work shall not be carried out from within a road reserve, but from inside the property boundary.	☐ Yes ☐ N/A
F2	Fencing	A suspended fence designed to exclude stock during periods of low or no flow shall be installed at all river and creek crossings.	☐ Yes ☑ N/A
1.26	Are there any impacts on any utilities and/or roads?	☐ Yes ☑ No	*Carry out a dial-before-you-dig 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?	☑ Yes ☐ No	*Post rehabilitation may include replanting, rip rap and making good of a disturbed area.*
1.28.1	Provide details of impact	damaged tracks and hard stand areas to be remediated and regrassed	
SITE DECOMMISSIONING			
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	☑ Yes ☐ N/A

		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	
D2	Site Decommissioning and Restoration	Disturbed areas shall be reseeded wherever there is no local seed source for natural reseeding.	◯ Yes ✓ 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.	◯ Yes ✓ N/A
1.29	Is a Construction Environmental Management Plan (CEMP) required?	✓ Yes ◯ 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?	✓ Yes ◯ No	*Minor and routine works not requiring a CEMP can still require specific mitigation measures.*
1.30.1	Provide details. Include a list of any project specific controls or mitigation measures that need to be implemented during this project or works.	Silt boom or silt containment device (coir logs or similar) to be installed in stream on downstream side of wall. Lead paint management plan to be developed, including monitoring of emissions and sampling of material before and after works. All runoff from a hardstand area and any stockpiles below dam wall to be controlled and directed through sediment controls. Any water leaving the hardstand/compound area to be free of sediments before entering the watercourse or existing drainage system. Concrete dust and water spray from water blasting/concrete cleaning and removal to be contained and collected for disposal offsite. Grass to be reinstated on removal of the temporary hardstand area at site demobilisation.	
	Thank you for completing **Section 1** 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 myWaterNSW to create a service request*
✓	Environmental Services Team - 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?	✓ Yes ○ No	*Heritage to be checked:* *1. WaterNSW S170 Register (D2016/73126)* *2. NSW Planning Portal* ⓘ *3. Relevant Council LEP*
2.1.1	Identify and describe the works with regard to the heritage significance.	The Oberon Dam forms part of the Fish River Water Suply Scheme which is listed on WaterNSW s170 register. The proposal is required to maintain the asset and keep it in working order. As the proposal only requires repainting of a pipe there is no potential for a more than minor heritage impact.	
2.1.2	Is the item identified on the LEP as locally significant?	○ Yes ✓ No	*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.* *Consult the Heritage Specialist for advice* ⓘ
2.1.4	Are the proposed works permissible under the Heritage NSW Standard Exemptions? *Consult the Heritage Specialist or Adviser*	✓ Yes ○ No	*Refer to the Heritage NSW Standard Exemptions* 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. If the proposed activities/works would not comply with the Standard Exemptions or site-specific exemptions, approval under the Heritage Act 1977 is required. *Consult the Heritage Specialist for advice* ⓘ
2.1.5	Include details that support the above conclusions and outcomes of consultation with the heritage specialist.	The proposal is exempt under Government Gazette No 262 of Friday 17 June 2022: STANDARD EXEMPTION 9: PAINTING a) Paint removal, surface preparation and repainting of the already painted fabric of an item. Government Gazette No 521 of Friday 4 November 2022 EXEMPTION 2: GENERAL MAINTENANCE AND REPAIR (a) Repairing SHR/IHO items which are required because material or fabric is at End of Life. - Paint is required to be replaced as it is at the end of it's useful life.	
2.1.6	Detail specific requirements or measures that need to be included in the Environmental Approval.	Pipe should be repainted in a color that is analogous with the existing paint and surrounding infrastructure.	*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?	○ Yes ✓ No	***Landscape features** that indicate the likely existence of Aboriginal objects.* *Is the proposed activity* *• within 200 metres of waters* *• within sand dunes on a ridge top/ridge line/headland* *• within 200 metres of the top or bottom of a cliff face* *• within 20m of or within a cave, rock shelter ora cave mouth* *AND the land is NOT previously disturbed* ⓘ *An Aboriginal Heritage Information Management System (AHIMS) Web Services search must be undertaken using 200m buffer of the project or work and if positive undertake within 50m.* *ILUA - Indigenous Land Use Agreement search tool*

AHIMS Web Services (AWS)
Search Result

[redacted]

November 2024

[redacted]

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?	☑ Yes ○ No	*Low impact activities are listed in Clause 58 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 distriburance ⓘ
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	○ Yes ☑ 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. OEH Critical Habitat Register* *2. DPI Fisheries Register of Critical Habitat* *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.	An Aboriginal Due Diligence Assessment has been undertaken by WaterNSW First Nations Team - RITMO 751348.	
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 Managment) 2018 applies • Wetlands and/or migratory birds • National Parks or Land covered by a Conservation Agreement	○ Yes ☑ No	*The Warragamba Special Area is within the Greater Blue Mountains World Heritage Area.* *See* SEPP (Exempt & Complying Development) 2008 *Clause 1.5 for inclusions of environmentally sensitive areas , use hyperlink to check:* *- an aquatic reserve under the Fisheries Management Act 1994 or a marine park under the Marine Parks Act 1997* *- A RAMSAR wetland or a World Heritage 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?	☑ Yes ○ No	*Examples may include asbestos, contaminated soil.* *NULA Contaminated Land Risk Register (D2016/135491) and Hazardous Materials Register (D2015/74763).* *Register - Gauging Stations, 26 November 2014 - Asbestos NSW Office of Water D2015/74762*
2.5.1	Provide specific safeguards details	The removal of the existing paint must be undertaken in accordance with Work Health and Safety Regulation 2017, including the site encapsulation and removal. In addition, the project requires an Environmental Protection Licence (EPL) if the quantity of lead waste, including the encapsulation material, exceeds to 200 kg in any load. This is required under the Protection of the Environment Operations Act 1997 Schedule 1, Part 2, cl 48. Transportation of trackable waste. A calculation of the amount of waste produced by the project must be done prior to construction to understand the potential for the EPL to be required and enable time to apply for the EPL.	*Section 60 of the Contaminated Land Management Act 1997 includes a duty to report contamination. For further details see the Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997*
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? **Note:** 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.	○ Yes ☑ 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 Environmnetal 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.* ***Use the OEH Native Vegetation Regulatory Maps** to determine vegetation category.*
2.6.1	Provide details	No clearing of native vegetation is required All works are located on previously cleared areas.	*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?		*A project is likely to have more than a minimal impact if for example:*

		✓ Yes ○ No	• *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.	The proposal is not likely to have more than a minimal impact on any environmental factor as no vegetation removal is required and the work is painting. However this is subject to Establishment of safeguards as detailed in this assessment.	*Details here will not appear elsewhere on the approval*
2.7.2	Does the project or work fall within one of the development categories & associated exempt development types listed under SEPP (Infrastructure) 2007 Clause or Schedule 1 or alternative Environmental Planning Instrument?	✓ Yes ○ No	*If ISEPP clauses don't adequately describe the project or works including Schedule 1, consider State Environmental Planning Policy (Exempt and Complying Development Codes) 2008* ⓘ
2.7.3	Detail the planning instrument, development category and exempt development type that best describes the project or works?	The proposed testing can be categorised as exempt development under Cl 2.162 (j) of State Environmental Planning Policy (Transport and Infrastructure) 2021 (T and I SEPP) - (j) painting, servicing or minor alteration of existing equipment,	
2.8	Are there any special environmental safeguards, controls or mitigation measures that need to be implemented during this project or works?	✓ Yes ○ No	
2.8.1	Provide details. Add specific stakeholder requirements or safeguards that need to be included in the Environmental Approval	Soil samples are proposed to be undertaken prior to and after the proposed activity. If the post activity soil samples present higher levels of contamination than remediation should occur in accordance with Contaminated Land Management Act 1997	
2.9	Does the project or works require notification under the Fisheries Management Act?	○ Yes ✓ No	*Activitites 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)* ⓘ
Project or works can be approved as exempt development. Go to Section 4 Environmental Approvals			

SECTION 4 ENVIRONMENTAL APPROVAL

Project Details

myWaterNSW Request #: RITM	RITM0751037	ARK Minor Works EIA Form #	D2024/130303
WaterNSW Contact	[redacted]	Project Location	Oberon Dam, NSW, including access tracks from public parking areas to the dam concrete structure
Project Title	Oberon Dams Renewal Project		
Approved Activity	Setup site compound (site sheds, lunch rooms, skip bins, portable 10kVa generator, stockpiles) and connect to power. Use existing WaterNSW toilet facilities, setup parking area exclusion zone from public access and install advisory signage. Plant used includes 15t truck table top, vacuum truck, multiple utes, portable pumps, compactor, excavator, dump truck, crane. Install sediment controls which will be details in the CEMP. Take samples of materials (soil, water, paint, air) for testing to determine hazardous material presence (including lead and asbestos) both before the works start and after they are completed. Install and maintain air monitoring devices throughout the works. Install sandbags at buttress walls to resist backflow of water into the dam bays and regularly dewater pooling water in the dam bays into the river. At project start pump out pooled water, sludge and solids from within the flooded dam bays/buttress areas and dispose offsite at a licensed facility to provide unobstructed access and view of the ground to install the encapsulation in these bays. Cut existing vegetation/grass along existing access tracks and proposed area of works, excavate unsuitable materials (topsoil) where required, the extent of this will be minimized, to enable installation over these tracks a layer of rockfill/roadbase to create a sturdy trafficable zone. Install a hardstand area (flat are built up of compacted gravels on the existing ground) for portable encapsulation decontamination area (showers, change room) to be installed. Materials excavated and delivered will be stockpiled on site for use at appropriate times. Build a temporary framed scaffolding structure which shall be covered with appropriate material to make an encapsulation to meet regulatory and environmental hygienist requirements to enable removal of existing lead paint. The encapsulation shall have air and vacuum pumps, dehumidifiers and heaters present to regulate the atmosphere in the encapsulation so it meets paint application requirements. The section under the dam spillway will have a secondary scaffold structure which shall deflect spilling waters away from directly hitting the encapsulation. The structures may need to be attached to the existing dam walls with screwed in bolts or alike. A lead control plan shall be developed to detail the control requirements to be implemented during the works. Within the dam bays remove existing rocks/fill as necessary and install scaffolding and pipe encapsulation. Existing fencing beside the pipeline will be removed during the works (replaced after completion) and replaced with temporary fencing' Existing paint coating (lead paint) of the outlet pipe shall be abrasive blast or mechanically tool removed under the supervision of an environmental hygienist and new paint coating applied by qualified painters. Remove from encapsulation contaminated materials for offsite disposal at a licensed facility, including undertake testing of materials. Replace existing pipe hold down straps and fixings, some breakout of old concrete may be required. Demobilise from site by removing sandbags, roadbase (or alike), bins and waste and sediment controls, topsoil to be returned to areas where it was removed and disturbed grassed areas to be regressed.		

Project Manager Responsibilities

In carrying out the project or works, it is the Project Manager's reponsibility 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.

CEMP Requirement

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.

Environmental Safeguards

General

G1	All WaterNSW Work Health and Safety requirements must be adhered to.
G2	All complaints and compliments shall be directed to - feedback@waternsw.com.au or 1300 662 077.
G3	All environment incidents shall be addressed in accordance with WaterNSW's Environmental Incident Management Procedure **CD2016/6***.
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 **CD2015/210*** 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 **CD2012/184* -** Unexpected Aboriginal Objects Procedure should be followed.
G10	All sediment and erosion controls shall be installed according to the requirements of *Managing Urban Stormwater: Soils and Construction - Volume 1, 4th Edition 'Blue Book'* .
G11	WaterNSW Tree Clearing Permit CD2021/110* must be completed and authorised by the works supervisor before vegetation removal activities commence.
Community	
C1	A Community Engagement Plan, or equivalent, shall be prepared to the satisfaction of the Water NSW Communications Team before work commences.
C2	All contractors' (and any sub-contractors') personnel employed for the works shall maintain a tidy appearance and exercise courtesy in all dealings with the public.
Traffic and Utilities	
Special and Contolled Areas	
Soil and Water	
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: o diverting any potential upslope runoff and stormwater away from the site; o installing temporary erosion control devices (eg sediment fencing, sand bags, sediment basins); o temporary surface protection (eg surface mulching, geotextile/erosion control matting).
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: o sediment fencing/bunding o any sign of erosion of the site or material o any impact on adjacent vegetation (material shall be kept outside the dripline of any tree) o the safe storage of any chemicals, fuels or lubricants o the height, gradient and stability of any stockpile (<2m high and 2:1 slope)
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: o at least 40m from natural or built drainage lines or wetland; o on areas previously disturbed and that do not require the clearing of native vegetation; o on level, hard ground wherever possible, and shall not be located on slopes steeper than 1(V):10(H); o beyond tree drip lines; o where there is no risk of impact on any indigenous or non-indigenous heritage site.
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.
SW12	Any wastewater generated during the works shall be contained for disposal offsite at a lawful facility. Water contaminated with sediment can only be

	discharged in a manner that prevents the sediment entering natural or built drainage lines or wetland.
SW13	Silt booms shall be installed in the stream or water body around the work site, or immediately downstream. The silt booms shall be appropriately anchored to maximise the capture of any sediment laden water.
SW14	Any mixing of paints is to be carried out over a waterproof membrane of at least 4 square metres in area. The contractor is to take all reasonable steps to prevent spillage of paint.
Flora and Fauna	
FF1	Vegetation disturbance or clearing shall be minimised to the greatest degree practical and only in accordance with EIA approval.
FF2	Slashing groundcover shall be limited to a height of 150 to 200mm.
FF3	Any vegetative material that has been cleared, lopped or otherwise removed shall be retained and used as surface mulching to assist site revegetation on completion of the works.
FF6	Retained vegetation and trees shall be protected from accidental damage, encroachment or smothering by temporary fencing, flagging or similar. Drip lines of trees are to be avoided.
FF7	All equipment transported to the site shall be free of contaminants such as weeds.
Pest and Weed Control	
P1	Control of weeds shall be undertaken by using appropriate government and industry accepted control methods. Removal of weeds from the site shall be properly disposed of at an appropriately licensed waste facility.
P5	All vehicles, vessels and equipment transported to the site shall be free of contaminants such as weeds. Care shall also be taken to ensure all vehicles, vessels and equipment are free of aquatic weeds and their seeds before leaving the site.
P6	All debris from control works shall be removed from flood-prone areas and only left onsite with approval of WaterNSW
Air Quality	
AQ1	All practicable and feasible measures shall be taken to avoid raising excessive levels of dust.
AQ2	All vehicles, plant and equipment shall be properly maintained to reduce vehicle and plant emissions. If visible smoke is seen for longer than 10 seconds duration from any engine while working on the site, the machine shall be taken out of service and adequately tuned or repaired so that such extended smoke emission on longer occurs.
AQ3	Wherever possible, vehicles, plant and equipment shall be switched off when not in use.
AQ4	Hazardous material shall be handled as per relevant guidelines to avoid potential air pollution.
Noise and Vibration	
N1	All practicable and feasible measures shall be taken to minimise noise. All vehicles, plant and equipment shall comply with relevant EPA and Workcover requirements.
Heritage	
Waste	
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.
Site Decommissioning and Restoration	
D1	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

Fencing	
PROJECT SPECIFIC SAFEGUARDS	
PS1	Silt boom or silt containment device (coir logs or similar) to be installed in stream on downstream side of wall. Lead paint management plan to be developed, including monitoring of emissions and sampling of material before and after works. All runoff from a hardstand area and any stockpiles below dam wall to be controlled and directed through sediment controls. Any water leaving the hardstand/ compound area to be free of sediments before entering the watercourse or existing drainage system. Concrete dust and water spray from water blasting/concrete cleaning and removal to be contained and collected for disposal offsite. Grass to be reinstated on removal of the temporary hardstand area at site demobilisation.
PS3	The removal of the existing paint must be undertaken in accordance with Work Health and Safety Regulation 2017, including the site encapsulation and removal. In addition, the project requires an Environmental Protection Licence (EPL) if the quantity of lead waste, including the encapsulation material, exceeds to 200 kg in any load. This is required under the Protection of the Environment Operations Act 1997 Schedule 1, Part 2, cl 48. Transportation of trackable waste. A calculation of the amount of waste produced by the project must be done prior to construction to understand the potential for the EPL to be required and enable time to apply for the EPL.
STAKEHOLDER REQUIREMENTS	
SR2	Pipe should be repainted in a color that is analogous with the existing paint and surrounding infrastructure.
SR9	Soil samples are proposed to be undertaken prior to and after the proposed activity. If the post activity soil samples present higher levels of contamination than remediation should occur in accordance with Contaminated Land Management Act 1997

DECLARATION AND SIGN-OFF

The proposed project/works described within this document are classified as `exempt development' in accordance with the *Environmental Planning and Assessment Act 1979* (EP&A Act) and the *State Environmental Planning Policy (Infrastructure) 2007*. WaterNSW is satisfied that the proposed project/works:

- will have no more than a minimal impact on the environment,
- will not significantly impact critical habitat of an endangered species, population or ecological community, or a wilderness area,
- satisfy the requirements of clause 20 of the *State Environmental Planning Policy (Infrastructure) 2007*; and
- do not involve the removal of asbestos unless that removal is undertaken in accordance with *Working with Asbestos: Guide 2008* published by the WorkCover Authority.

If the scope of work or work methods described in this report change either prior to or during works, additional Environmnetal Impact Assessment must be undertaken.

Approval ARK # ⓘ	D2024/130303
Environmental Adviser Approval Environmental Impact Assessment for Minor Works was approved/endorsed by	[redacted]