

\*Highlighted areas denote this information is to be completed as the application progresses

## Site EMP A1 Plan (1)- Types and Locations of Environmental Protection Measures

Project Name: GPT Group Development / 485 Cooper St, Epping, VIC  
 Date and Revision: 19 November 2024, Rev. 07

**The following have been identified as significant environmental aspects for the site:**

- Sediment and Erosion Control
- Air Quality
- Aboriginal Cultural Heritage
- Merri Creek
- Significant Flora and Fauna
- Asbestos and Waste Management
- Releases to Water

These aspects shall be managed with the Environmental Protection Measures outlined on this plan.

Management	
<p><b>1. Responsibilities:</b>                      Emergency Contacts 1: Pat Troiano (Civ2con) – 0429 472 963                      2: Gary Cheetham (Civ2con) – 0476 529 902                      3: Out of Hrs Rob Troiano (Civ2con) – 0438 040 238</p>	<p><b>4. Staging of Works:</b>                      All environmental protection devices to be installed prior to the commencement of works. Maintain maximum soil surface cover and minimise the “footprint” of soil disturbance at any one time.                      All rectifications to be addressed immediately of incident/report.</p>
<p><b>2. Communication of EMP Requirements:</b>                      All on-site personnel to be inducted into all requirements of this SEMP and the site's CEMP prior to undertaking any works or removing vegetation. An amended version of this SEMP is to be submitted to City of Whittlesea Council's Development Engineering Department to address any identified deficient aspects of this SEMP to protect significant environmental aspects. This SEMP must be displayed in visible location within site compound/office.</p>	<p><b>5. Informing Residents:</b>                      All residents within 100 metres of the development site to be advised by mail of the following, at least 48hrs prior to commencement of corresponding activities:</p> <ul style="list-style-type: none"> <li>• Any required tree removal</li> <li>• Rock crushing</li> <li>• Excavation Activities</li> </ul>
<p><b>3. Inspections and Maintenance:</b>                      All environmental protection/sediment control devices to be inspected daily for functionality and compliance with this SEMP. SEMP protection measures must be monitored daily. Sediment and Erosion Control measures to be inspected daily for functionality and compliance with SEMP. Immediate rectifications and repair of sediment control measure to occur.                      Any defects in environmental protection devices to be rectified within 24hrs. Incident management and processes must be clearly explained in site office. Haul tracks to be inspected regularly for damage and wear. Tracks to be regraded and topped up as required to ensure an all weather access to the work front is available at all times.</p>	<p><b>6. Associated Documents:</b> Works (BE), Native &amp; Non-Native Veg Removal PLN - 42821                      Soil Contamination Assessment and EHS Advisory Letter (ref. 20220113-L-02)                      Sediment and Erosion Control Plan (ref. C014681.00-DA20)                      Flora and Fauna Assessment (Report No. 22076.11(1.4))                      Weed Management Plan (Report No. 22076.08)                      Conservation Management Plan (Report No. 22076.05(1.2))                      Cultural Heritage Management Plan (Report No. 17854)                      Eastern Grey Kangaroo Management Plan (Report No. 22076.06(1.1))                      Growing Grass Frog Salvage and Relocation Plan (Report No. 22076.12(1.0))                      EPA VIC Publication 1698: Liquid storage and handling guidelines (2018)                      EPA VIC Publication 1695.1: Assessing and controlling risk: A guide for business (2019)                      EPA VIC Publication 1894: Managing soil disturbance (2020)                      EPA VIC Publication 1895: Managing stockpiles (2020)                      EPA VIC Publication 1897: Managing truck and other vehicle movement (2020)                      EPA VIC Publication 275: Construction Techniques for Sediment Pollution Control (1991)                      Environment Protection Regulations 2021                      EPA VIC Publication 1826.4: Noise limit and assessment protocol for the control of noise from commercial, industrial and trade premises and entertainment venues (2021).                      Civ2Con Dispersive Soil Management Plan (2024)</p>

**Noise, Vibration and Lighting**  
**Risk: Significant/Med/Low**  
**Requirement:** EPA Victoria and Council requirements must be adhered to in relation to the level of noise and working hours, to ensure that residents and other applicable neighbours to the site are not disturbed unreasonably. The generation of noise must be minimised. All noise from construction equipment (including warming up of machinery) is prohibited before 7 am.

<p><b>7. Working Hours:</b>                      Mon-Fri: 7am to 5PM                      Sat: 7am to 3PM                      (Not) Before 9am Sat: N/A                      Working hours shall be in accordance with noise limits outlined in EPA VIC Publication 1826.4.                      No equipment use within 35m of any residential premises boundaries. Only the following equipment used between 35 and 200m from any residential premises boundaries: earthmoving machinery (e.g. graders or excavators); concrete trucks; self-propelled, single drum vibrating rollers.</p>	<p><b>8. Noise Minimisation Methods:</b>                      Regular maintenance and inspection of machinery in accordance with manufacturer requirements. All machinery and vehicles used to be fitted with standard noise management equipment. Operation of machinery restricted to Site working hours only.                      Maintain a complaints' register to identify and action residential complaints as required.</p>	<p><b>9. Lighting:</b>                      Site lighting must be designed and used to minimise impacts on surrounding land uses.</p>
---	--	---

**Dust**  
**Risk: Significant/Med/Low**  
**Requirement:** Dust generation must be minimised to ensure there is no health risk or loss of amenity.

<p><b>10. Minimising Dust Generation:</b>                      20km/h speed limit to apply to the works area at all times. Stripping of vegetation to be minimised and staged where possible. Keep to approved truck/haulage route and maintain truck route. Daily monitoring of wind conditions to determine potential risks associated with generation of dust emissions from Site activities. Any activity involving the handling and moving of soil to be restricted on dry windy days.</p>	<p><b>12. Contingencies:</b>                      Initiate stop-work procedures if dust generated from works reaches neighbouring areas, sensitive receptors and if visibility is affected on adjoining roads or if dust on site is determined to be a risk to occupational health.</p>
<p><b>11. Dust Suppression:</b>                      Control dust by spraying with water wherever required. Maintain appropriate number of watercarts on-site and use as required to suppress dust generated from haul roads, earthworks and other activities. Any hose used for water spraying to be fitted with a trigger nozzle. Recycled water (refer to EPA guidelines for controls on usage) to be used for dust suppression. Stabilise exposed soils prior to leaving works area at the end of each working day. Wet sweeping of roads where needed.</p>	<p><b>13. Other:</b>                      If using a dust suppression product, ensure that the product will not have an impact on the environment. Provide a copy of the Safety Data Sheet (SDS) to all relevant staff members, contractors and visitors on-site.</p>

**Erosion and Sediment**  
**Risk: Significant/Med/Low**  
**Requirement:** Erosion and sediment must be managed in accordance with current best practice environmental management practices, to prevent sediment-laden water from entering any drainage system or natural waterway. All works must be conducted in accordance with the Dispersive Soil Management Plan (Dispersive Soil Management Plan R1, Civ2Con 2024). All water leaving or discharged from the works area is to meet EPA water quality requirements, including for turbidity, salinity, pH, temperature, dissolved oxygen and contaminants.

<p><b>14. Drainage Management:</b>                      Drainage lines must be naturalised as much as practical. Storm drains inlet must be protected. Appropriate material or rock can be used to filter trash and debris. Break up long slopes with sediment barriers or under drain or divert stormwater away from slopes. Sheet runoff should be collected and diverted across a slope or around a soil disturbance. Clear water is to be diverted away from disturbed ground and into the drainage system. All cut-off/catch/swale-drains to be designed and constructed as per prescriptions in this SEMP and EPA Publication 275. To prevent soil slippage, diversion banks and their channels shall be constructed with stable side gradients, typically no steeper than 2:1 (horizontal: vertical). Must not drain water into any NO GO ZONEs or adjacent properties. Bunding to be installed under designated stockpile areas. All fill areas are to be left with a bund at the top of the slope at the end of each says earthworks. The height of the bund shall be minimum 200mm. Silt fences to be installed convex to the contour to pond water. Coir logs &amp; geotextiles constructed to toe of batter prior to commencement of earthworks, immediately after clearing of vegetation and before removal of topsoil. Contractor to provide and maintain slopes, crowns and drains on all excavations and embankments to ensure satisfactory drainage at all times. Water shall not be allowed to pond on the works unless such ponding is part of an approved ESCP/SWMP. Contractor to ensure runoff from all areas where the natural surface is disturbed by construction, including access roads, depot and stockpile site, shall be free of pollutants before it is either dispersed to stable areas or directed to natural watercourses. <b>Site-specific controls</b> Silt fence and diversion drain to be installed along Site boundary. Clean water diverted away from disturbed ground and discharged into Merri Creek via sediment basin. Clean water diversion drain to be located between SP2 and SB3 with a discharge point passing the Site boundary towards Merri Creek. Diversion drains installed east of Merri Creek to prevent run-off to sensitive receptors. Diversion drains (untreated) to be installed with a clockwise and anti-clockwise flow direction from the stabilised construction entry point to SP2 and SP3.</p>	<p><b>17. Sediment Traps:</b> All sediment trapping structures and devices are to be inspected after storms for structural damage or clogging, trapped material is to be removed to a safe, approved location on Site. Silt fences and silt fence returns shall be erected convex to the contour to pond water. Sediment run-off controls and drainage around all construction areas must be established prior to commencement of any building or works. Sediment fencing (or other acceptable sediment control measures) must be installed downslope of disturbed areas. All sediment control measures must be maintained and intact for the duration of the works (including reinstatement period) and inspected daily including prior to (and after) rain/storm events. Construct silt fence with catch drain on upslope side to divert water around stockpiles and silt fence only 1m to 2m downslope as shown. Sediment fences desilted when sediment has built up to 1/3 the height of the measure or when built up sediment is preventing the fence from working effectively. Sedimentation basins to collect run-off in extreme rainfall events. Each sedimentation basin to have a marker placed to indicate when sediment is to be removed. Removed sediment to be classified and dewatered prior to removal from Site. Allowance to be made during benching of Site to ensure run-off is directed to sedimentation basin. <b>Site-specific controls</b> Type D basin is required for the Site. Collected run-off to be assessed by a qualified laboratory (NATA) for dosing rates of alum or gypsum coagulation of sediments prior to water being discharged to City of Whittlesea stormwater system. Dewatering of basin to be performed to the bottom of the sediment settling zone following achievement of WQO's. Management of dosage and discharge to be achieved within 5 days of the initial rainfall event. Following dewatering, water level to be maintained at 20% capacity after a 4-day settling period following a storm event. Sediment build up in basins should not exceed 33% total capacity of basin. Each basin is to have appropriate markers placed indicating when sediment should be removed. Removed sediment should then be classified and dewatered prior to removal from Site. Gypsum dosage rate to be applied at ~32kg per 100 m<sup>3</sup> of collected runoff. Discharge from pond is permissible when the water PH is 6.5 to 8.5 and is clarified to at or below a TSS of 50mg/L. Clarification would generally be achieved in 36-72 hours with the use of gypsum. Correlation tests must be undertaken on-site to ensure this is achieved. Location and volume of basins:</p> <ul style="list-style-type: none"> <li>• Sediment Basin 1 (SB1) = north-east corner of Site, 5.80ha</li> <li>• Sediment Basin 2 (SB2) = south-west corner of Site, 14.30ha</li> <li>• Sediment Basin 3 (SB3) = parallel to southern Site boundary and east of SB2, 8.40ha</li> </ul>
---	---



**Plan Legend:**  
 [include and define all symbols used in plan]

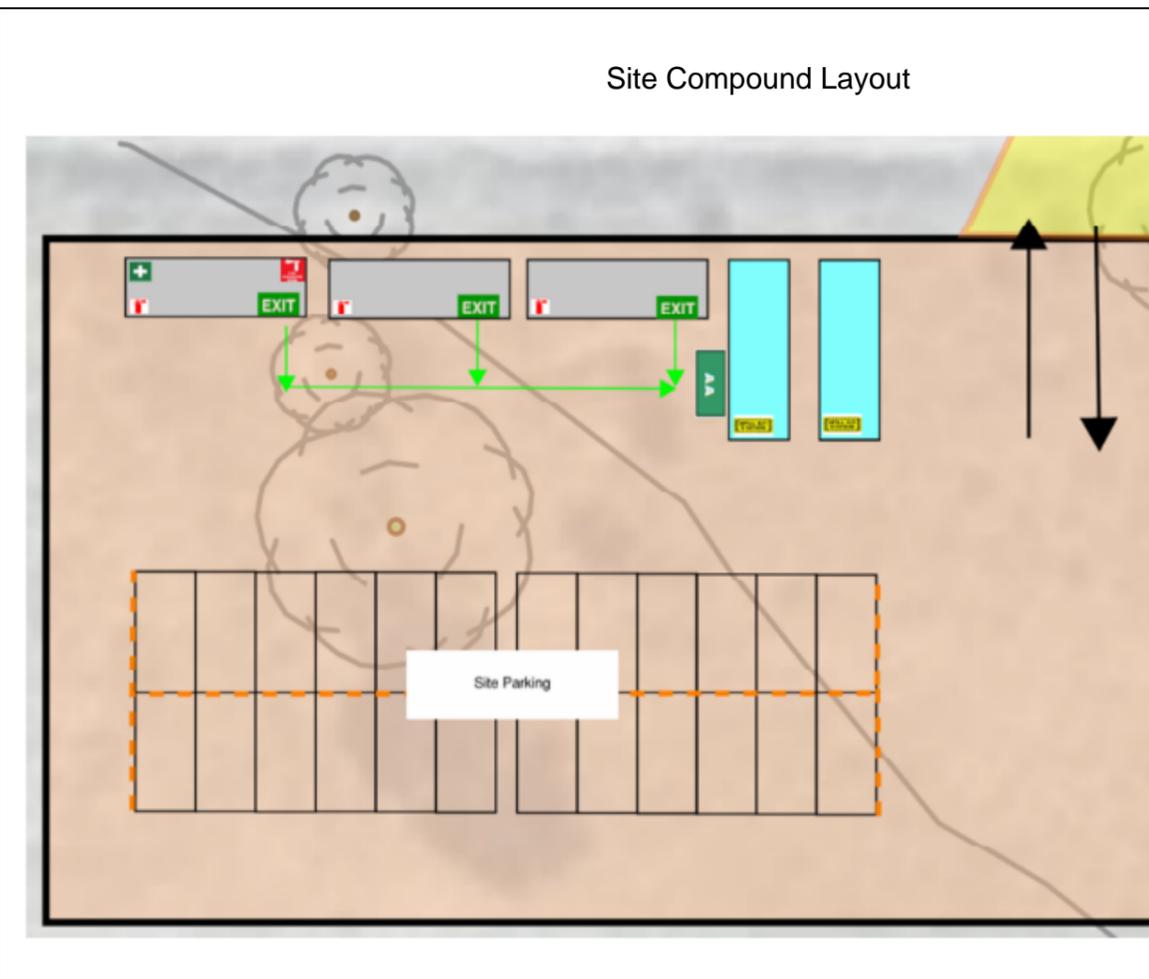
Construction fencing:  
 - 1.8m high cyclone mesh fencing or similar  
 - Fitted with NO GO ZONE signage where shown  
 - Must not be breached, except where approved by Council or to implement approved kangaroo management plan

- Legend**
- Perimeter fence
  - Construction area
  - Conservation area
  - Cut fill areas
  - Green
  - Red
  - 127 Pre-construction elevation (mAHD)
  - Waterway
  - Site boundary
  - 1.8 m temporary fencing
  - Overland Flow Path
  - Diversion Drain (Untreated)
  - Silt Fence
  - Site Entry
  - Sediment Basin
  - Stockpile
  - Bund
  - Treated Water Diversion Drain
  - Protected Native Vegetation:
  - Tree
  - Tree Protection Zone
  - Construction Haul Road
  - Site Access Road
  - Rumble Grid
  - Creek Crossing
  - Truck Wash
  - Stockpile Zone for Early Import
  - Contamination Hotspot Exclusion Zones
  - Zones to be para-webbed and exclusion signage installed.
  - Vegetation Protection Parawebbing

Addition of more detail at the request of Council

\*Highlighted areas denote this information is to be completed as the application progresses

<p><b>15. Soil Stabilisation:</b> <b>During Construction (Method):</b> Stabilised construction entry in north-west corner of Site. Avoid clearing areas and minimise vegetation disturbance. Stage soil work to minimise areas of exposure. Grading, excavation and construction work must not proceed during periods of heavy rainfall. Temporary earth berms, diversion and silt dam embankments are to be machine compacted, seeded and mulched for temporary vegetation cover as soon as they have been formed.<b>Site-specific measures</b> Assume type D soil (clay/silty clay) Assume group D soil (High plasticity and shrink/swell properties).</p> <p><b>Post Works (Method):</b> Battering is to be formed in accordance with council specifications. Lots may be seeded if and where required.</p>	<p><b>18. Dewatering:</b> Water to be reused on-site (e.g. for dust suppression) as a preference to discharging. Water must not be discharged into any NO GO ZONES or adjacent properties without prior written consent from City of Whittlesea Council's Development Engineering Department and any affected landowners. <b>Site-specific dewatering</b> Dewatering shall be done in such a manner to remove clean water without disturbing the sediment that has settled. The pump intake pipe is not to rest on the settled sediment layer. If water exceeds TSS of 50mg/L during dewatering, pumping is to cease. Records are to be kept (on-site at all times) of all measurement prior to, during and after discharge.</p>
<p><b>16. Stockpile Protection:</b> All stockpile sites shall be situated in areas approved for such use by the site manager. Design and designate key stockpiling areas on-site before work commences. Bunding to be installed under designated stockpile areas. All stockpiles to meet the following requirements:</p> <ul style="list-style-type: none"> <li>• 3m maximum height with 2:1 Batters</li> <li>• 10m minimum setback from adjacent properties</li> <li>• 30m minimum setback from waterways (natural or man-made)</li> <li>• 6m minimum buffer zone between each stockpile and any stream or flow path.</li> <li>• Revegetate all long-term stockpiles (in place more than 28 days) within 14 days of establishment.</li> <li>• Shall be situated in areas approved for such use by the Site manager. All stockpiles located &gt;5m from vegetation, road and hazardous areas.</li> <li>• Where there is sufficient area, topsoil stockpiles shall be less than 2m in height.</li> <li>• Where stockpiles are to be in place for more than 10 days, stabilise using wood chip mulch – 16 tonne/ha.</li> <li>• Construct stockpiles on the contour as low, flat elongated mounds. Sid slope to be 1 V: 2 max.</li> </ul> <p>Diversion of stormwater away from stockpiles using a diversion drain. Appropriate sediment control system must be located down-slope of stockpiles.</p>	<p><b>19. Vehicle and Road Management:</b> <b>Site Access:</b> Access Agreement from 481 Cooper to be provided prior to commencement. Where practical, only one access point to be used on-site (north-west corner of Site) Site access point must be maintained to avoid stripped/exposed earth onto sealed roads i.e. fitted with mud removal devices e.g. rumble grid raised above ground level; must be at least two full wheel rotations in length; must be designed to cater for the weight of fully loaded vehicles; must abut a firm, stable exit-road surface. Access tracks to be set out to ensure sensitive areas such as conservation reserves and courtbowls are not impeded during neighbouring site works, allowing track to be maintained during length of project. <b>Cleaning Vehicles:</b> Access and exit areas shall include shake-down or other methods approved by the Site Manager for the removal of soil materials from motor vehicles. All vehicles, machinery and plant to be cleaned of rock and excessive mud prior to leaving site or accessing internal or external sealed roads. All cleaning to be carried out in designated bunded wash bay. <b>Street Cleaning:</b> All internal and external roads and gutters to be cleaned of any deposited rock, mud, silt, dirt and other debris from the works area prior to rain and as required. Keep mud off road and on-site as much as possible (i.e. instead of using a water hose to remove any dirt from road, a wet sweeping method will be employed instead)</p>
<p><b>Waste</b> <span style="float: right;"><b>Risk: Significant/Med/Low</b></span></p>	
<p><b>Requirement:</b> Litter and waste must be contained on-site before disposal in a responsible manner. Waste generation must be minimised.</p>	
<p><b>21. Movement of Soil: Off-site/ On Site</b> Contaminant Status: Fill Material, excluding two 'hotspot' areas of Fill domain soils, having a preliminary classification of Category D or Category C waste (reference Helia EHS Letter Report, 20240113-L-01). Minor amounts of asbestos containing materials (ACM) were detected in isolated areas of the Site (reference Helia EHS Report, 20220113-R-01). All fill exported off-site must be taken to a legal site of disposal in accordance with the Site's relevant CEMP, soil and waste disposal procedures.</p>	<p><b>23. Waste Storage and Disposal:</b> Bins or covered skips to be located at site compound; of suitable capacity for requirements; lidded; emptied prior to being over-full.</p>
<p><b>22. Waste Minimisation Methods:</b> Keep and reuse surplus material for or from other projects, where possible Reduce usage of materials/reuse materials where possible – avoid, reduce, reuse, and recycle.</p>	<p><b>24. Other:</b> Site must be kept free of litter - any visible litter on-site must be collected at minimum daily. All rubbish in the vicinity of the conservation area must be promptly removed before any management measures are performed. Rubbish, comprising mainly plastic litter and some metal waste, was observed along the banks of Merri Creek and on the escarpment occurring mainly from high floodwaters moving debris down the creek, in accordance with the Conservation Management Plan (CMP).</p>



Exit	
Assembly Area	
Path of Exit	
Spill Kit	
Air Horn	
Fire Extinguisher	
First Aid	
Lunchroom/ Site Office	

<p><b>Chemicals</b> <span style="float: right;"><b>Risk: Significant/Med/Low</b></span></p>	
<p><b>Requirement:</b> Storage and spill management practices must be implemented to ensure that no environmental damage can result from the escape or spillage of chemicals or fuels.</p>	
<p><b>25. Storage:</b> On-site storage of chemicals to be minimised. All chemicals on site to be stored under cover, on an impervious surface and within a suitable bund (e.g. drip tray). Any required storage of large chemical drums is to follow EPA guidelines. Management of chemicals to be in accordance with manufacturer's SDS and EPA Publication 1698.</p>	<p><b>27. Refuelling Procedure:</b> All refuelling only within appropriate bunded or portable sealed bunded area. Minimize refuelling of vehicles on site, where possible, it should be done off site. Undertaken away as far as practicable from waterways, drainage lines and other sensitive areas.</p>
<p><b>26. Spill Management:</b> All on-site personnel will be trained in correct deployment and use of spill kits. Provided spill kits to be of sufficient type and capacity for on-site chemicals. Any soil contaminated from a spill will be removed and disposed of at an appropriate EPA landfill licensed to receive the waste type. The extent of soil contamination must be assessed, classified and removed in accordance with relevant authority guidelines.</p>	<p><b>28. Other:</b> Contact relevant Regulatory Authority to notify of spill, as required. Safety Data Sheets for all on site chemicals to be kept available in the site compound.</p>

<p style="text-align: center;"><b>Other Site-Specific Issues</b></p>	
<p><b>Significant Flora/ Fauna</b> <span style="float: right;"><b>Risk: Significant/Med/Low</b></span></p>	<p><b>Archaeological/ Heritage</b> <span style="float: right;"><b>Risk: Significant/Med/Low</b></span></p>
<p><b>Requirement:</b> All significant flora and fauna on and adjacent to the site must be protected.</p>	
<p><b>29. Yes/No. Details:</b> All significant flora, fauna and habitat on or adjacent to the site must be protected and signed accordingly for all stages of work. Vegetation protection zones to be established around areas of native vegetation prior to works. Establish appropriate TPZs around identified trees prior to works in accordance with the Site's Flora and Fauna Assessment (FFA). Established conservation area to be entirely fenced during works to exclude inappropriate/unauthorised access. Fencing to be placed at a minimum of 2 metres outside of the conservation area and will have 'Conservation Area – NO GO ZONE' signage affixed at 30-metre intervals and at a height of 1.5 metres aboveground. Such fencing requirements are to follow the specific requirements of the Site's CEMP (e.g. allowing a 30cm gap at the bottom to allow for any fauna movement across the boundary). Temporary exclusion fencing to be applied around the wetland construction area with at least a 2-metre buffer from native vegetation. Fencing around the wetland will include sediment fencing (in accordance with the CMP). Ensure all construction personnel are appropriately briefed prior to works, and that no construction personnel, machinery or equipment are placed inside vegetation zones/TPZs in accordance with the FFA. Suitably qualified zoologist is required to undertake the relevant pre-clearance surveys for native fauna. Any vegetation removal must be in accordance with the FFA. Monitoring requirements conducted in accordance with the Site's Conservation Management Plan (CMP). Implementation of the Site's Eastern Grey Kangaroo Management Plan. Implementation of the Site's Growling Grass Frog Salvage and Relocation Plan.</p>	<p><b>Requirement:</b> Places, sites and objects of archaeological or heritage significance must be protected. <b>30. Yes/No. Details:</b> Prior to conducting works, ensure the Site Cultural Heritage Management Plan (CHMP) is implemented. Should any artefacts be uncovered during works immediately stop works, contact superintendent and follow relevant procedures (as addressed in the CHMP). Heritage Overlay situated approx. 80m southwest of Site boundary. Part of Site is listed as Aboriginal Cultural Heritage Sensitivity (northeast and southwest of Site). Surface salvage of the Low Density Artefact Distribution (LDAD) component must occur prior to ground disturbing works occurring within the area of the registered components of VAHR 7823-4798 and VAHR 7822-480.</p>

<p><b>Weed Control</b> <span style="float: right;"><b>Risk: Significant/Med/Low</b></span></p>
<p><b>Requirement:</b> Storage and spill management practices must be implemented to ensure that no environmental damage can result from the escape or spillage of chemicals or fuels.</p>
<p><b>Include any other relevant planning permit condition requirements.</b> Outbreaks of any declared noxious weed Weeds of National Significance will be controlled. Site-specific weed control and monitoring, including routine weed surveys, completion of checklists and logbooks, will be implemented in accordance with the Weed Management Plan (WMP). All Site personnel must be inducted into the WMP and given instructions relating to the location of and how to use the clean-down area, as well as associated clean-down procedures in accordance with the WMP. Relevant weed controls and monitoring results submitted to Council upon request.</p>

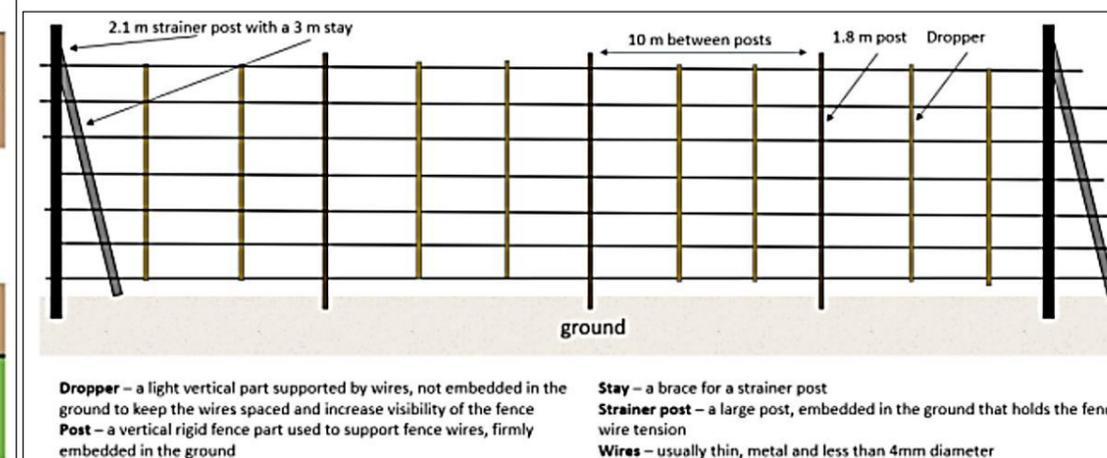
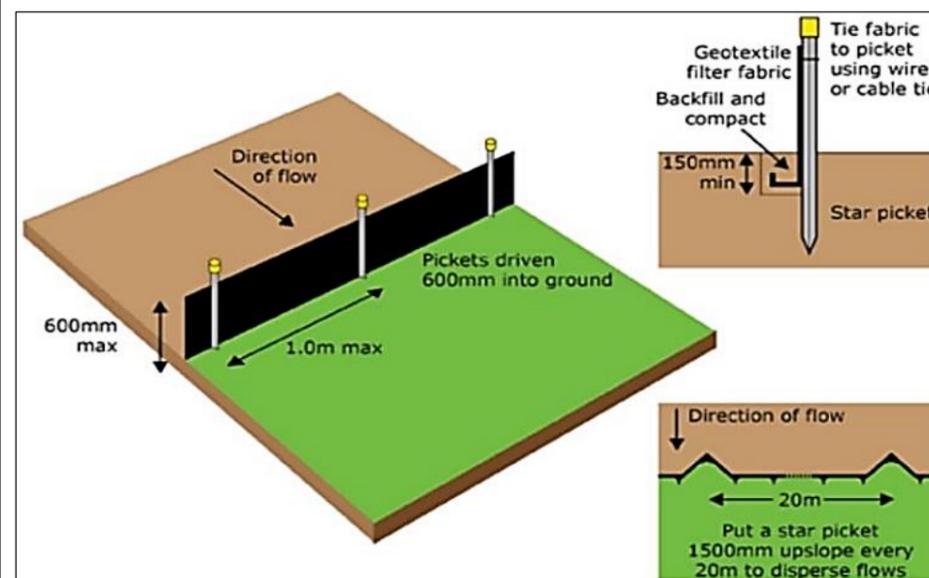
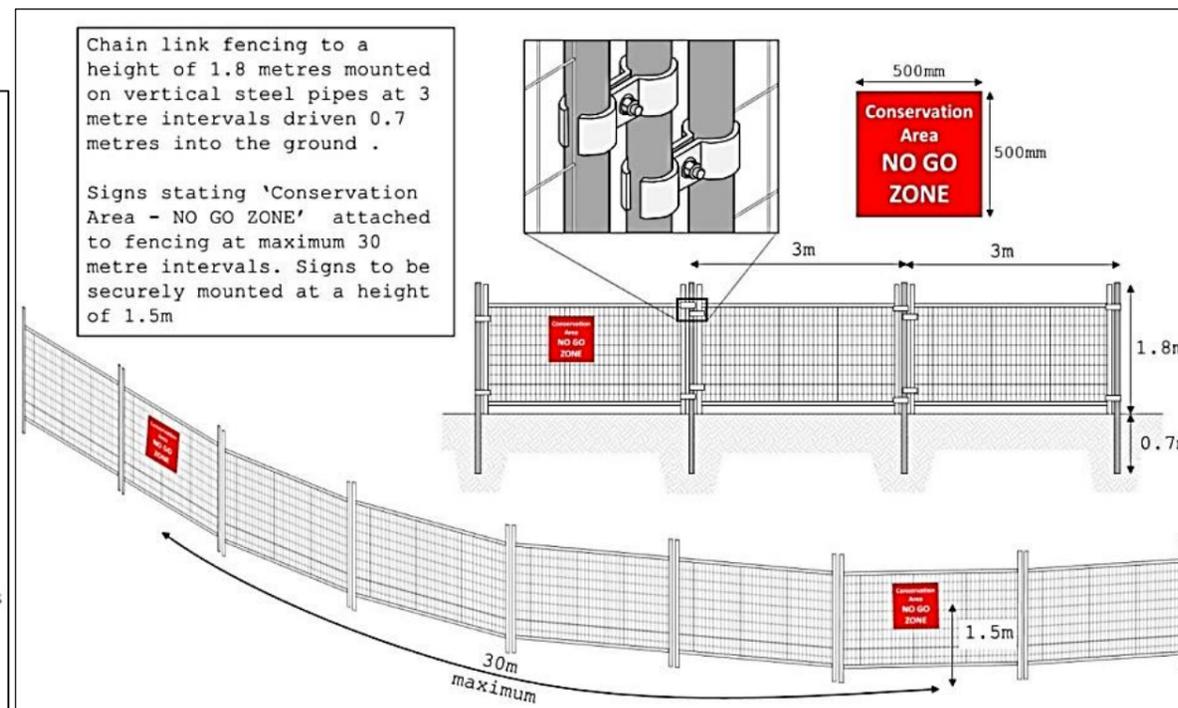
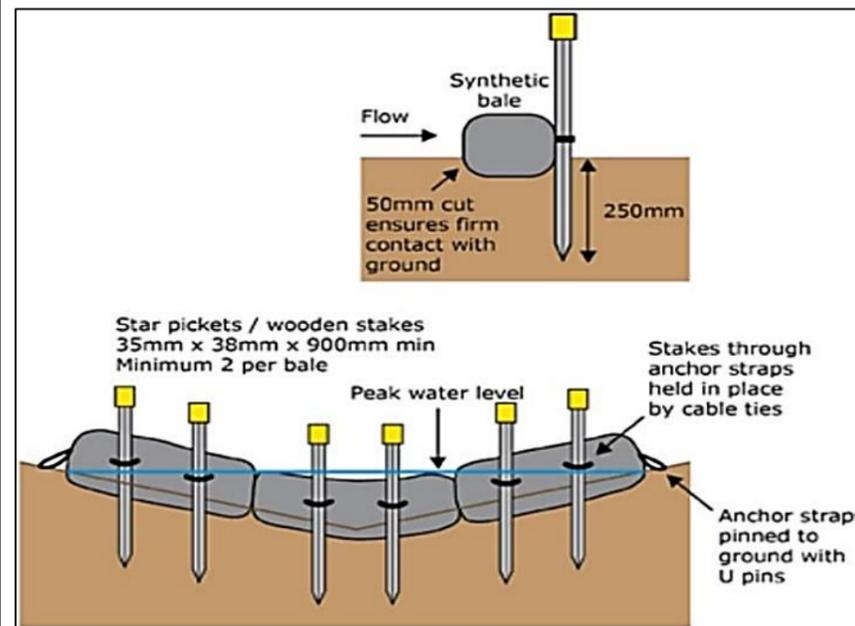
**PLANNING & ENVIRONMENT ACT 1987**  
**WHITTLESEA PLANNING SCHEME**  
 Planning Permit No: PLN-42821  
 Application Ref. No.: PLN-43836  
 Endorsed to show compliance with Condition (s) 2  
 Sheet 2 of 8 Date: 20/02/2025

RISK ASSESSMENT CHECKLIST <i>Prepared in accordance with EPA Pub 1695</i>	
<b>Noise</b>	
<b>Issues:</b> <ul style="list-style-type: none"> <li>Nature of Noise Generating Works: Earthmoving machinery (e.g. graders and excavators); concrete trucks; vibrating rollers, general truck movement.</li> <li>Potential Noise Receptors: Residential (eastern flank of Site boundary across from Hume Freeway); Merri Creek (western flank of Site boundary).</li> <li>Proximity of Works to Noise Receptors: Residential receptors situated approx. 100m east of Site at closest boundary point; Merri Creek adjacent to western Site boundary.</li> </ul>	<b>Likelihood</b> Likely <b>Consequence</b> Minor <b>Overall Risk</b> Medium
<b>Dust</b>	
<b>Issues:</b> <ul style="list-style-type: none"> <li>Dust Sources: Stockpiles (approximately 3, although subject to change depending on Site conditions), earthworks; truck movement within Site boundary.</li> <li>Potential Dust Receptors: Residential (eastern flank of Site boundary across from Hume Freeway); Merri Creek (western flank of Site boundary).</li> <li>Proximity of Works to Dust Receptors: Residential receptors situated approx. 100m east of Site at closest boundary point; Merri Creek adjacent to western Site boundary.</li> <li>Extent of Exposed Earth and Duration of Time Exposed: Extent of Exposed Earth approx. 28.5ha. ESCP states approx. 3 stockpiles and 3 sediment basins will exist, however this may vary depending on site conditions Controls will be implemented to minimise time extent of exposed earth and ensure duration of time exposed is no greater than 28 days.</li> <li>Wind Conditions: According to data available from BOM, wind direction is predominately northerly and northeasterly throughout the year.</li> </ul>	<b>Likelihood</b> Possible <b>Consequence</b> Minor <b>Overall Risk</b> Medium
<b>Erosion and Sediment</b>	
<b>Issues:</b> <ul style="list-style-type: none"> <li>Erosion and Sediment Sources: Earthworks, banded stockpiles, truck movement on and off site.</li> <li>Potential Erosion and Sediment Receptors: Merri Creek (located western flank of Site boundary).</li> <li>Proximity of Works to Erosion and Sediment Receptors: Merri Creek adjacent to western Site boundary.</li> <li>Extent of Exposed Earth and Duration of Time Exposed: Extent of Exposed Earth approx. 28.5ha. ESCP states 3 stockpiles and 3 sediment basins will exist. Controls to be implemented to minimise time extent of exposed earth (no greater than 28 days).</li> <li>Soil Type and Extensivity: Based on previous site assessment reports, Soil is understood to be Type D Soil (Clay/Silty Clay), assumed Group D Soil with high plasticity and shrink/swell properties.</li> <li>Slope: 1V:3H (max. side slope of sediment basin)</li> <li>Site Drainage Regime: Diversion drains and silt fences erected, 3 x sediment basins to catch flow and filter as required in accordance with the ESCL.</li> <li>Rainfall: Approx 22mm annually</li> <li>Vehicle Movements On and Off Site: Restricted to within Site boundary and silt fences. Earthmoving machinery (e.g. graders and excavators); concrete trucks; vibrating rollers, trucks to enter via stabilised construction entry and exits (refer to drawing DA25).</li> </ul>	<b>Likelihood</b> Likely <b>Consequence</b> Moderate <b>Overall Risk</b> High
<b>Waste</b>	
<b>Issues:</b> <ul style="list-style-type: none"> <li>Nature of Waste to be Generated: Wastes soils (Cat D); general rubbish</li> <li>Presence of Wastes On Site Prior to Work Commencement: According to the Conservation Management Plan (CPM), a moderate amount of rubbish was found in the conservation area at the time of CPM preparation and consisted of list household waste, materials from construction, dumped fill, polystyrene and plastic, etc, likely occurring from the past flooding.</li> <li>Quantity of Waste Anticipated: 500m<sup>3</sup></li> <li>Potential Waste Receptors: Residential (eastern flank of Site boundary across from Hume Freeway); Hume Freeway; Merri Creek (western flank of Site boundary); Adjacent (currently vacant) properties located north and south of the Site.</li> <li>Proximity to Potential Waste Receptors: Residential receptors situated approx. 100m east of Site at closest boundary point; Hume Freeway directly east of Site; Merri Creek directly west of Site boundary; vacant properties directly north and south of Site boundary.</li> </ul>	<b>Likelihood</b> Possible <b>Consequence</b> Minor <b>Overall Risk</b> Medium
<b>Chemicals</b>	
<b>Issues:</b> <ul style="list-style-type: none"> <li>Types of Chemicals and Fuels Used and/or Stored On Site: Diesel for operation of machinery. All vehicles will travel off-site for refuelling purposes and no bulk storage of fuels (e.g. diesel) are stored on-site.</li> <li>Quantities of Chemicals and Fuels Used and/or Stored On Site: No chemicals stored on-site.</li> <li>Potential Chemical Receptors: Merri Creek (western flank of Site boundary).</li> <li>Proximity to Potential Chemical Receptors: Dependant on vehicles on movements, Merri Creek located approximately 44m at its closest point to Site boundary.</li> </ul>	<b>Likelihood</b> Unlikely <b>Consequence</b> Moderate <b>Overall Risk</b> Medium
<b>Significant Flora/ Fauna</b>	
<b>Issues:</b> <ul style="list-style-type: none"> <li>Types of Flora/ Fauna: Predominately open grassland consisting of introduced pasture grasses and broad-leaf weeds. Also various sized patches of native grassland vegetation (highest quality native grassland vegetation in south-east area of Site).</li> <li>Vulnerability of Flora/ Fauna: Native vegetation in patches totalled 6.959 hectares. Targeted surveys show no Matted Flax-lily, Golden Sun Moth, Striped Legless Lizard or Growling Grass Frog were recorded within the study area. Refer to the Site's FFA for more details.</li> <li>Proximity of Flora/Fauna to Works: Merri Creek corridor and associated terrestrial buffer proposed in accordance with the Site's FFA.</li> <li>Work Activities Which May Threaten Flora/ Fauna: Earthworks causing ground disturbance and contamination of Merri Creek.</li> <li>Potential Impacts on Flora/ Fauna: Approx. 8 trees proposed to be removed (Red River Gums) and 0.4ha; Extent of native vegetation removal approx. 3.983 ha</li> </ul>	<b>Likelihood</b> Likely <b>Consequence</b> Moderate <b>Overall Risk</b> High
<b>Archaeological/ Heritage</b>	

## Site EMP A1 Plan (2)- Risk Assessment and Designs of Environmental Protection Measures

Project Name: GPT Group Development / 485 Cooper St, Epping, VIC  
Date and Revision: 19 November 2024, Rev. 07

Environmental protection measures shall be constructed in accordance with the following designs.



**PLANNING & ENVIRONMENT ACT 1987  
WHITTLESEA PLANNING SCHEME  
Planning Permit No: PLN-42821  
Application Ref. No.: PLN-43836  
Endorsed to show compliance with Condition (s) 2  
Sheet 3 of 8 Date: 20/02/2025**

\*Highlighted areas denote this information is to be completed as the application progresses

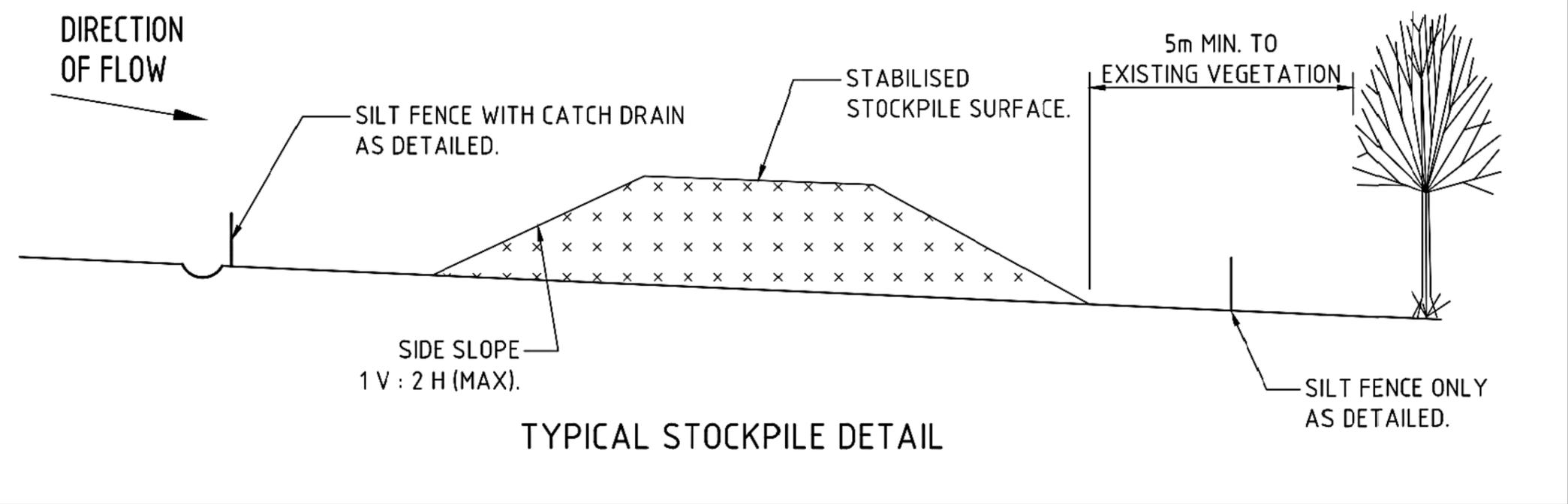
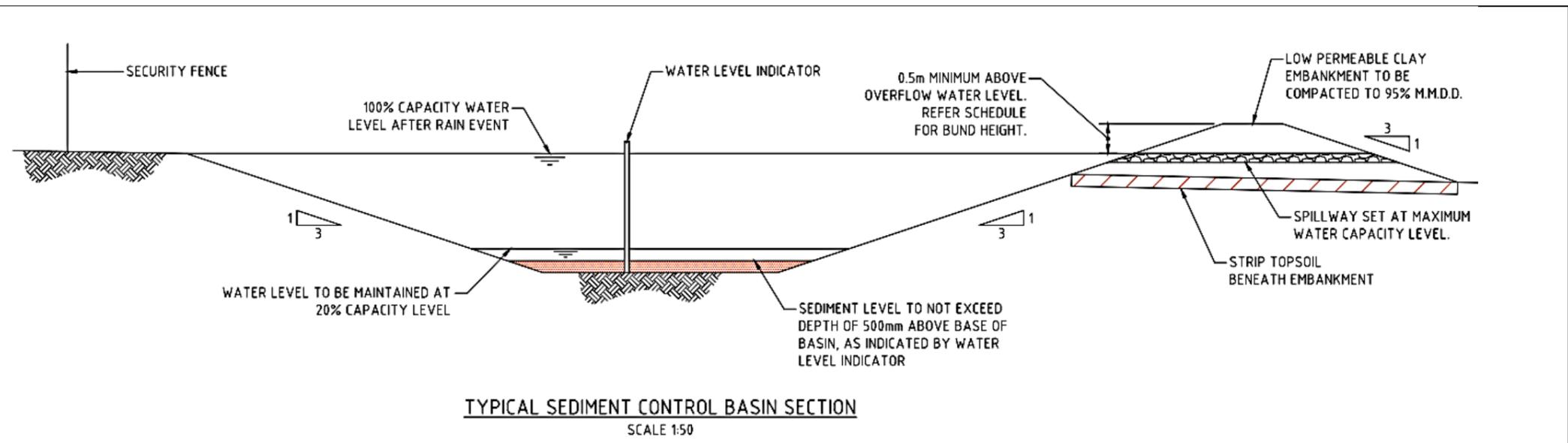
**Issues:**

- Traditional Landowners Consulted? Yes/ No  
CHMP indicates a Wurundjeri Notice of Intent Response dated 30 March 2021 from the Woi-wurrung Cultural Heritage Aboriginal Corporation regarding intent to review project submission.
- Survey or Assessment Conducted? Yes/ No/ Not Required  
Yes, refer to Cultural Heritage Management Plan (CHMP).
- Probability of Encountering Archaeological/ Heritage Items During Works:  
Moderate to Low. Moderate potential for stone artefacts in a subsurface context to a maximum depth of 30cm. All other potential Aboriginal place types were considered to have no to low potential to be present.
- Types of Archaeological/ Heritage Items On Site:  
Native vegetation; Waterways and waterbodies; Aboriginal Cultural Heritage places (registered as VAHR 7822-4798 [485 Cooper Street LDAD] and VAHR: 7822-4801 [485 Cooper Street AS])
- Proximity of Archaeological/ Heritage Items to Works On Site:  
Native vegetation within Site boundary; extent of artefact scatters within the geographic region varies from 1m<sup>2</sup> to 230500m<sup>2</sup>. The average site extent is 11,169m<sup>2</sup>. The Aboriginal places with higher densities of artefacts and greater extents all located within 200m of Merri Creek.
- Stone artefacts in low densities also been found stretching along Merri Creek terrace at all the tested locations (refer to CHMP).
- Work Activities Which May Threaten Archaeological/ Heritage Items:  
According to the CHMP, filling in past quarry on site is likely to threaten registered Aboriginal places (VAHR 7822-0940, VAHR 7822-0941, VAHR 7822-4798 and VAHR 7822-4801) cannot be avoided.
- According to the CHMP, no construction or filling techniques would enable relevant personnel to minimise harm to registered Aboriginal places.
- Potential Impacts on Archaeological/ Heritage Items:  
Potential disturbance of artefacts and stone artifact scatters, native vegetation and identified waterbodies.

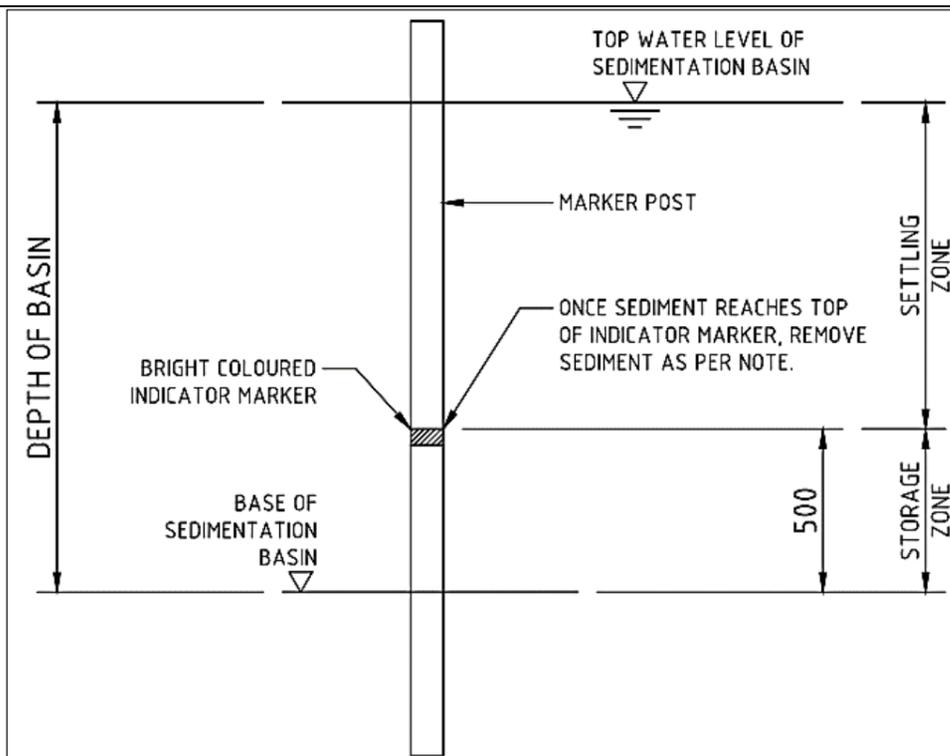
**Likelihood**  
Likely

**Consequence**  
Moderate

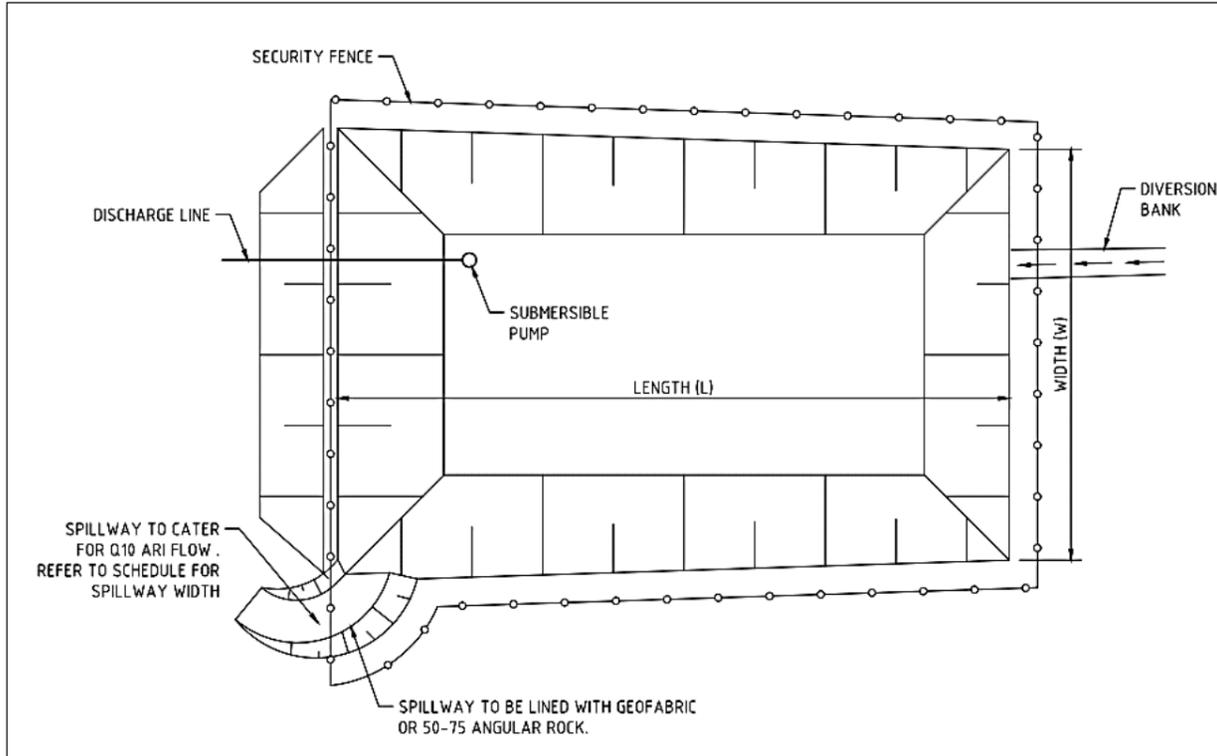
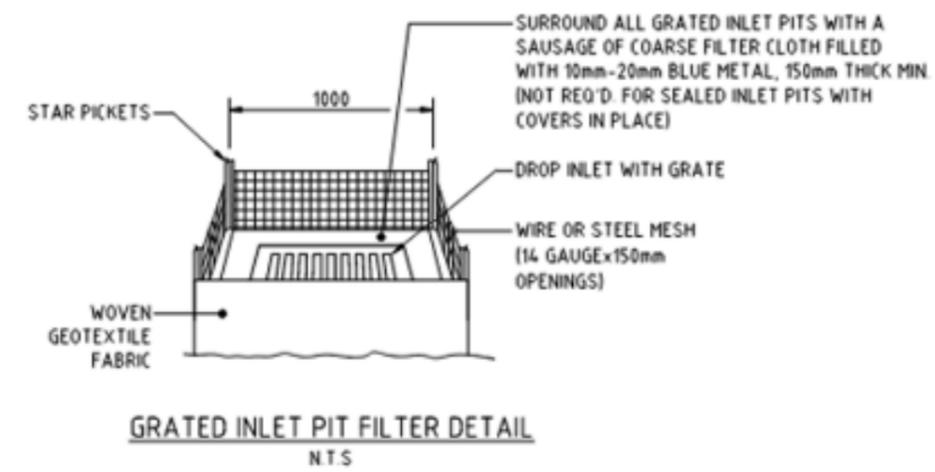
**Overall Risk**  
High



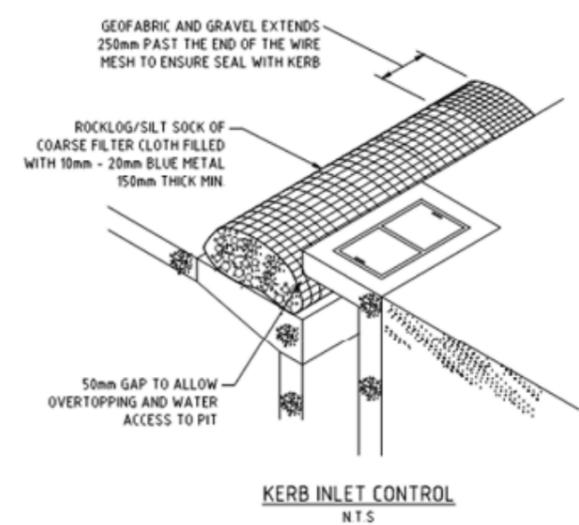
**PLANNING & ENVIRONMENT ACT 1987**  
**WHITTLESEA PLANNING SCHEME**  
 Planning Permit No: PLN-42821  
 Application Ref. No.: PLN-43836  
 Endorsed to show compliance with Condition (s) 2  
 Sheet 4 of 8 Date: 20/02/2025

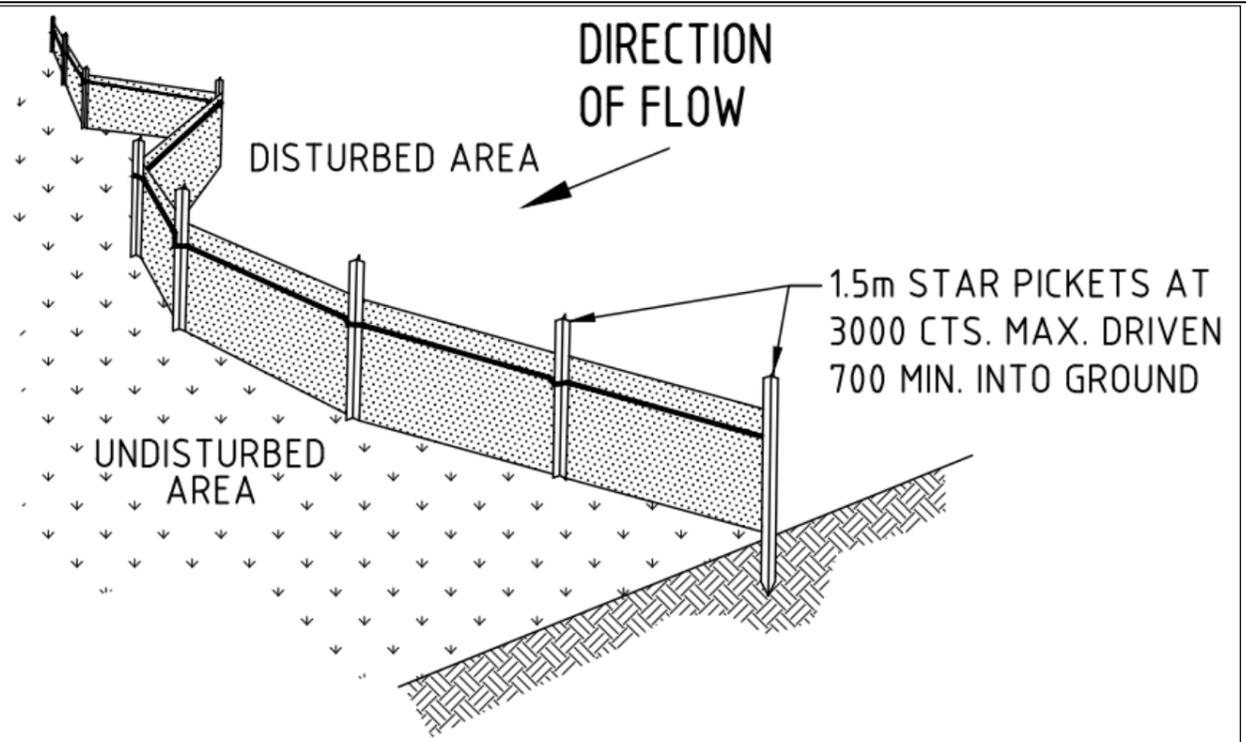


**SEDIMENT STORAGE MARKER**  
 SCALE 1:20



**TYPICAL SEDIMENT CONTROL POND PLAN**  
 SCALE 1:250



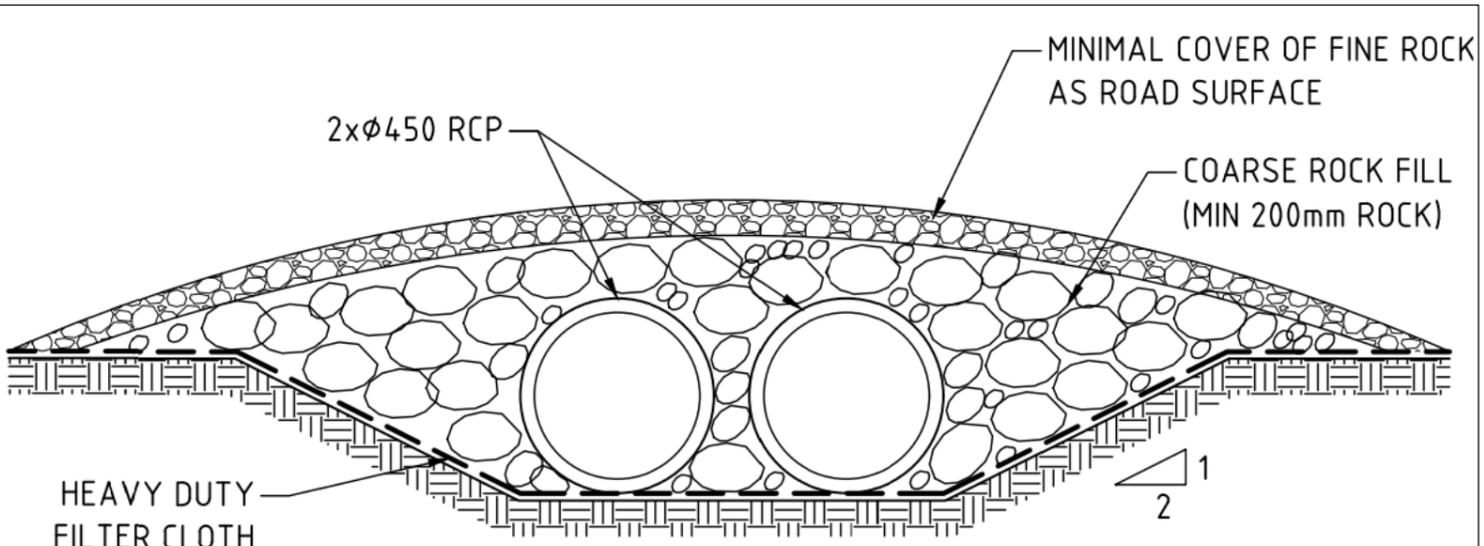


PLANNING & ENVIRONMENT ACT 1987  
WHITTLESEA PLANNING SCHEME  
Planning Permit No: PLN-42821  
Application Ref. No.: PLN-43836  
Endorsed to show compliance with Condition (s) 2  
Sheet 6 of 8 Date: 20/02/2025

**TYPICAL SILT FENCE DETAIL**

N.T.S

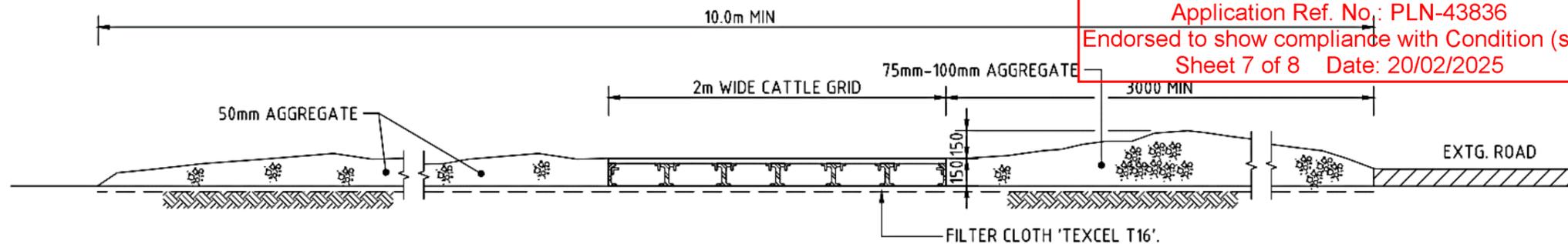
NOTE: PROVIDE 1m RETURNS AT 30m INTERVALS. TYPICAL



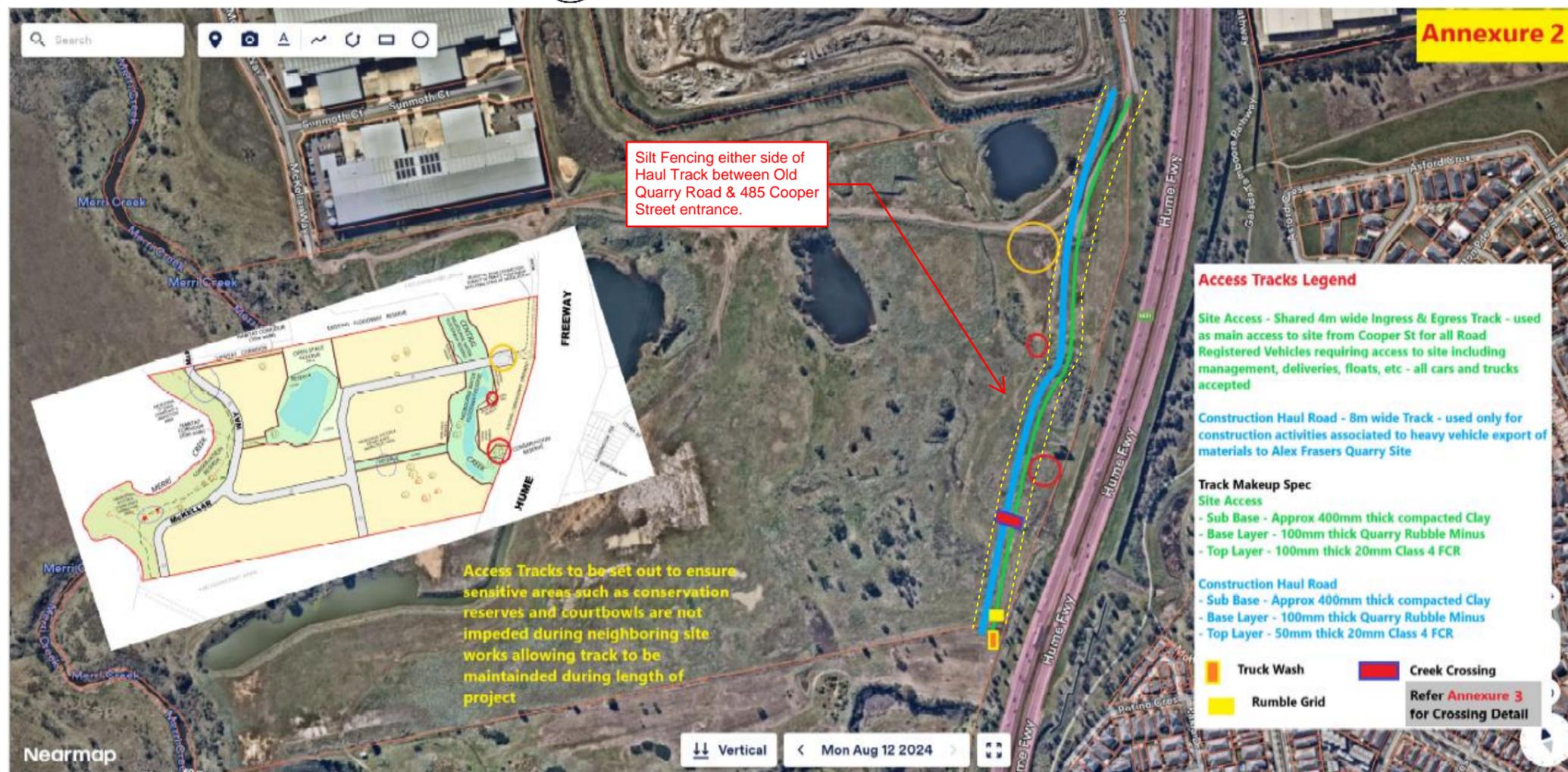
**TYPICAL CROSSING OVER DIVERSION CHANNEL**

SCALE 1:20

**PLANNING & ENVIRONMENT ACT 1987**  
**WHITTLESEA PLANNING SCHEME**  
 Planning Permit No: PLN-42821  
 Application Ref. No.: PLN-43836  
 Endorsed to show compliance with Condition (s) 2  
 Sheet 7 of 8 Date: 20/02/2025

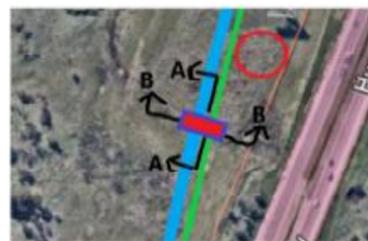


SECTION 1:20 **1** : STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'  
 DA20

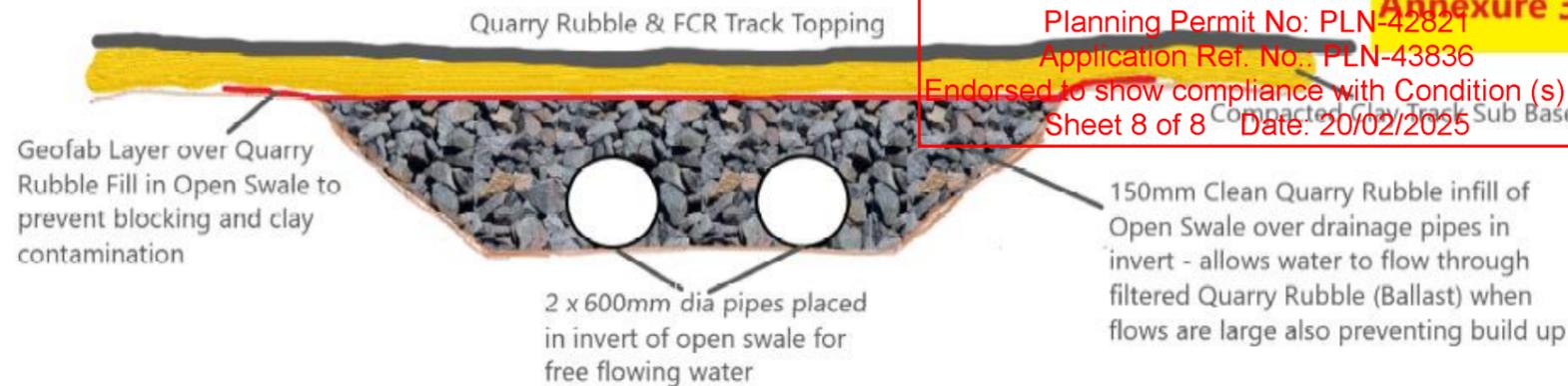


\*Highlighted areas denote this information is to be completed as the application progresses

PLANNING & ENVIRONMENT ACT 1987  
 WHITTLESEA PLANNING SCHEME  
 Planning Permit No: PLN-42821  
 Application Ref. No: PLN-43836  
 Endorsed to show compliance with Condition (s) 2  
 Sheet 8 of 8 Date: 20/02/2025



**Creek Crossing Sections**



**SECTION A-A**



**SECTION B-B**

I have read this Environmental Management Plan and agree to undertake works and ensure sub-contractors undertake works in accordance with this plan.

Developer

Consultant

Contractor

\_\_\_\_\_  
 \_\_\_\_\_