

## 7. APPENDICES

### APPENDIX A

#### CHECKLIST FOR STORMWATER CONCEPT PLAN (SCP)

Survey Information	Yes	No	NA
1. Site boundaries	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. North point	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Services within the public footway	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Site features, including tree, structures, depressions	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Contours at 0.1m for flat sites ranging to 0.5m for steep sites and extending 10m into adjoining properties	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Top of kerb levels	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Boundary levels	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Benchmarks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Levels to AHD where site is affected by overland flow, flooding or where works on Council's drainage network are required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
General	Yes	No	NA
1. Plans to scale of 1:100 or 1:200	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Designer's name, qualifications, contact details provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Design report, including details of any variations provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Plan number and date of issue shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Consistency between stormwater, architectural and landscape plans	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. 1% AEP overland flow extents shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Development layout, building envelope and proposed driveway locations shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Drainage calculations to support the proposed design submitted	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Proposed finished floor, garage and ground surface levels shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

10. Compliance with freeboard requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Location and level of proposed retaining walls indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Appropriate tail water selected	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. No adverse impact on other properties or the stormwater network	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Mainstream flood / local overland flow flood report (if any)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Drainage Layout</b>	<b>Yes</b>	<b>No</b>	<b>NA</b>
1. Pipe size, grade and invert level indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Pit location, size, invert level and surface level indicated	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Proposed connection point to Council's stormwater system	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>OSD</b>	<b>Yes</b>	<b>No</b>	<b>NA</b>
1. A catchment plan showing areas draining to the OSD system.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Location and size of OSD system and WSUD measures shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Location and level of OSD discharge points shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Compliance with detention volume required	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Compliance with less than 15% of site area bypassing OSD system	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Compliance with the Permissible Site Discharge (PSD) requirements	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Compliance with OSD storage depths	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Overland flows clear from the OSD system	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. OSD storage located within common areas, clear of private courtyards and accessible from the street	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Overflow weir provided and shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Details of discharge control pit shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Orifice details and calculations shown	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Typical sections of OSD storage, including basin invert level, centreline level of outlet orifice, top water level, finished surface levels provided	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Provision of design certification of the OSD system in accordance with this policy	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Others	Yes	No	NA
1. Location of Council's drainage easements, private inter-allotment easements shown (if any)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Location and details of basement pump-out system provided (if any)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Location and details of overland flow path shown (if any)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## 7. CHECKLISTS

### 7.1. Development Application Checklist (lodged with DA)

		<b>Water Sensitive Urban Design Development Application Checklist</b>		
<b>Site/ Project Name</b>		36-38 LETHBRIDGE ST & 42-46 EVANS ST, PENRITH		
<b>Lot and DP Number:</b>		<b>DA Number:</b>		
<i>Information Required with DA Submission:</i>			Y	N
1	Has a Water Sensitive Urban Design Strategy been submitted as part of the development application?		✓	
2	Is a BASIX Certificate required? If so, Yes - Attach certificate with DA		✓	
3	Has the digital version of MUSIC and report on the MUSIC model using data prescribed outlined in Council's Technical Guideline been attached?  Have stormwater quality retention criteria (TSS 85%, TP 60%, and TN 45%) and water quantity / drainage requirements been met and documented in the WSUD Strategy?  If relevant, have the Water Conservation, Quantity and quantity targets been achieved?		✓	
4	Does WSUD Strategy contain the following information? <ul style="list-style-type: none"> <li>Review of the <b>WSUD principles</b> and ensure that these are considered throughout development of the WSUD strategy.</li> <li>Confirmation of the <b>WSUD objectives</b> that are relevant to the development application.</li> <li>Confirmation of the <b>WSUD targets</b> for potable water conservation, stormwater quality management and stormwater quantity management that are relevant to the development application.</li> <li>Complete a <b>site analysis</b> to evaluate the site characteristics that potentially will impact on the feasibility of WSUD for the site.</li> <li><b>WSUD measures</b> that would be appropriate for the development considering the development scale, site characteristics, stormwater quality management function and stormwater quantity management function.</li> <li>A <b>preliminary WSUD strategy</b> that positions the selected WSUD measures in appropriate locations and arranges the measures in an appropriate series.</li> <li><b>Numerical modelling</b> utilising MUSIC software to evaluate appropriate sizes of the WSUD measures.</li> <li><b>Concept designs</b> of the WSUD measures.</li> <li><b>WSUD strategy report</b> that summarises the methodology and WSUD outcomes, and provide this with the development application for the site.</li> </ul>		✓	
5	Have the conceptual plans of the proposed stormwater treatment measures been included on the plans? (Detailed engineering plans will be required for the construction certificate)		✓	

6	<p>Has a Draft Operation and Maintenance Plan which includes details on the following been provided?</p> <ul style="list-style-type: none"> <li>• Site description (area, imperviousness, land use, annual rainfall, topography etc)</li> <li>• Site access description</li> <li>• Likely pollutant types, sources and estimated loads</li> <li>• Locations, types and descriptions of measures proposed</li> <li>• Operation and maintenance responsibility (council, developer or owner)</li> <li>• Inspection methods</li> <li>• Maintenance methods (frequency, equipment and personnel requirements including Work Health and Safety requirements)</li> <li>• Landscape and weed control requirements</li> <li>• Operation and maintenance costs</li> <li>• Waste management and disposal options, and</li> <li>• Reporting.</li> </ul>	✓	
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