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SCHEDULE 9 TO THE ENVIRONMENTAL SIGNIFICANCE OVERLAY

Shown on the planning scheme map as **ESO9.**

GREENVALE RESERVOIR CATCHMENT PROTECTION

1.0 Statement of environmental significance

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The Greenvale Reservoir is a water storage and distribution facility that supplies Melbourne's north-western suburbs with clean drinking water. Greenvale Reservoir is an off-stream storage facility that receives water via a pipeline from Silvan Reservoir and then directly supplies the water to customers. The Greenvale Reservoir Protection Area, which surrounds the Greenvale Reservoir drains towards the Reservoir however, there is no water harvesting from the catchment.

The Greenvale Reservoir was originally constructed in the 1970's, at which time the catchment consisted largely of undeveloped farmland. At present the Greenvale Reservoir Protection Area contains a mix of urban, residential, farming, tourist accommodation and public land uses. Surface stormwater run-off from urban development is an established source of contaminant that may be significantly hazardous to the health and quality of drinking water.

Melbourne Water, as the water storage manager, has an obligation to protect Melbourne's water supply from a range of potential contaminants. This includes ensuring that land use intensity and increased urban development does not lead to a decline in water quality and contamination of the Greenvale Reservoir through stormwater runoff.

The protection of the Greenvale Reservoir is essential to the health of all communities that rely on the Greenvale Reservoir for drinking water. Any infrastructure built to protect the Reservoir (including a bund) also requires protection in order to preserve its function as a Reservoir protection mechanism.

In addition to Melbourne Water's role as the water storage manager, it is also the regional drainage and floodplain authority with responsibility for ensuring urban development achieves appropriate standards of flood protection and waterway health is protected.

2.0 Environmental objectives to be achieved

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- To protect the Reservoir from impacts of surrounding development, particularly where new development has the potential to increase surface storm water runoff or the potential to reduce the quality of storm water runoff;
- To ensure the cumulative effect of development in the Greenvale Reservoir Protection Area maintains or reduces the level of risk to the quality of water supplied from Greenvale Reservoir;
- To ensure development and land use is consistent with the Greenvale Reservoir Catchment: Drinking Water Quality Risk Management Plan (March 2008);
- To protect the water quality of the Greenvale Reservoir from surface storm water runoff in a 1,000,000 AEP storm event;
- To ensure that development is compatible with the protection of the Greenvale Reservoir;
- To ensure any Reservoir protection mechanisms (including a bund) are protected from erosion and inappropriate development; and
- To ensure co-ordinated urban development in the catchment area, which provides for the integration of protection measures for the Greenvale Reservoir.

3.0 Permit requirements

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A permit is not required:

- to subdivide land which is owned by Melbourne Water.
- to construct a building or construct or carry out works unless within a waterway management easement shown on the Plan of Subdivision or on the Certificate of Title.
- for the removal, destruction or lopping of any vegetation.
- for any works associated with Aitken Boulevard/E14 undertaken by the Roads Corporation that have been designed to protect the Greenvale Reservoir to the satisfaction of the water storage manager (Melbourne Water) and that have been approved in writing by the water storage manager (Melbourne Water).

4.0 Application requirements

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An application must be accompanied by:

A Catchment Protection Plan to the satisfaction of Melbourne Water which includes as appropriate:

- A site plan identifying the proposed use and development of the land.
- A plan of the drainage system showing what protective measures are to be employed to protect the Greenvale Reservoir from any contamination resulting from effluent disposal, stormwater runoff and other off site discharges. The plan must outline details of pre-application discussions which may have occurred with Melbourne Water regarding the design and construction of drainage systems and protective measures. The plan must also show flood levels associated with the 1 in 100 and 1 in 1,000,000 AEP storm event, proposed retarding basins, lakes, wetlands, dams, water storage, watercourses, drainage lines and effluent disposal associated with the development.
- Construction plans for the drainage systems to be employed, prepared in consultation with Melbourne Water.
- How the proposed subdivision, development and use of the land responds to the current approved version of the Melbourne Water *Greenvale Reservoir Catchment: Drinking Water Quality Risk Management Plan (*March 2008).
- Plans and details outlining proposed sewerage reticulation and required drainage control mechanisms.
- Plans and details for the design, establishment, ongoing maintenance and possible transfer to Melbourne Water of the land upon which any proposed reservoir protection mechanisms are located.
- Plans of subdivision which identify overland flow paths associated with the 1 in 100 and 1 in 1,000,000 AEP storm event by way of a waterway management easement in favour of Melbourne Water to the extent required by Melbourne Water to ensure the flow paths are not unreasonably obstructed.
- Modelling of the change in flood flows downstream of Greenvale Reservoir attributable to any proposed reservoir protection measures.
- A plan for the staging of the reservoir protective measures.

5.0 Referral requirements

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An application for subdivision of land, construction of buildings or carrying out of works, must be referred to Melbourne Water under Section 55 of the Act unless in the opinion of the responsible authority, the proposal satisfies requirements or conditions previously agreed to in writing between the responsible authority and Melbourne Water.

6.0 Decision guidelines

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Before deciding on an application for subdivision, buildings or works, in addition to the decision guidelines in Clause 65, the responsible authority must consider, as appropriate:

- The view and recommendations of Melbourne Water regarding drainage networks, sewerage reticulation, proposed protective mechanisms and any drainage strategy;

- The impact of the development and subdivision on the Greenvale Reservoir with respect to drainage, water quality and runoff;
- The relationship between the proposal and any other State Government arrangements for achieving co-ordinated urban development in the locality;
- The current approved version of the Melbourne Water *Greenvale Reservoir Catchment: Drinking Water Quality Risk Management Plan;*
- The location of overland flowpaths including flood levels associated with the 100 and 1,000,000 AEP storm event ;
- The design, establishment and ongoing maintenance of the proposed reservoir protection measures;
- The change in flood flows attributable to reservoir protection measures adjacent to and downstream of the Greenvale Reservoir; and
- Any relevant agreement prepared under Section 173 of the *Planning and Environment Act 1987*.
- The Catchment Protection Plan.