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CRITERIA TO ASSESS AND PRIORITISE POTENTIAL WASTE FACILITY SITES IN PERTH AND PEEL

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Four main elements of the *Waste and Recycling Infrastructure Plan for the Perth metropolitan and Peel regions*:

1. Planning and Approvals
- 2. Facilities and Sites**
3. Technology
4. Governance and Funding

Facilities and Sites:

- The existing capacity of waste facilities in the Perth metropolitan and Peel regions, and likely waste infrastructure needs for 2015, 2020 and the '3.5 million city'
- Potential and preferred sites for development of new waste facilities, including opportunities for co-location, waste precincts, and industrial ecology

Strategic objective 1 of the Waste Strategy:

*Initiate and maintain long term planning for waste and recycling processing, and enable access to **suitably located land with buffers** sufficient to cater for the State's waste management needs*

Site selection objective:

The objective of the site assessment process is to identify sites that will potentially suit a range of waste facility types.

The sites should enable facilities to contribute to the Waste Strategy landfill diversion targets by operating as efficiently as possible, with a minimum of negative impacts on the surrounding community and environment, as part of an integrated waste management network in the Perth metropolitan and Peel regions.

Site assessment process:

The site assessment process will be broken down into several parts:

Site assessment criteria

- Stage 1 site assessment criteria
- Stage 2 site assessment criteria

Site assessment criteria:

- **Stage 1 Site Assessment Criteria:** broad 'first pass' assessment relating to some of the practical aspects of siting waste facilities
- **Stage 2 Site Assessment Criteria:** more detailed assessment of the sites assessed to be potentially suitable for waste facilities using the Stage 1 criteria

Stage 1 Site assessment criteria:

Planning Criteria:

- Zoning
- Land use and ownership
- Buffers and proximity to sensitive land uses

Technical Criteria:

- Size
- Access to transport routes
- Access to services and utilities
- Access to electricity generation connection points

Stage 1 Site assessment criteria:

- Advantages and disadvantages to the use of this site for waste facilities
- What types of waste facilities are suitable for development at the site?
- **Site Priority:**
 - 1=highest priority, well suited to development of a range of different waste facilities
 - 2=medium priority, suitable with some conditions or site modifications
 - 3=low priority, numerous barriers to construction and operation of waste facilities at the site
 - 4=not suitable for development of waste facilities

Stage 2 Site Assessment Criteria:

Sensitive Area Constraints:

- Environmentally sensitive areas
- Culturally sensitive areas

Technical Criteria:

- Flexibility and capacity for facility expansion
- Cost
- Timeframe of site availability
- Opportunities for waste facility co-location and precincts
- Opportunities for industrial ecology

Stage 2 Site Assessment Criteria:

Environmental Criteria:

- Topography, geology and soil type
- Surface and groundwater
- Native vegetation

Social Criteria:

- Access to potential workforce

Site assessment process:

The site assessment process will be broken down into several parts:

Waste facility types

- Enclosed facilities
- Non-enclosed facilities
- Drop-off facilities

Waste facility types:

Enclosed facilities

- AWT (waste-to-energy and MBT)
- MRFs (clean and dirty)
- Recyclers
- Composting facilities (enclosed)
- C&D recyclers (enclosed)
- Transfer stations

Waste facility types:

Non-enclosed facilities

- Open windrow composters
- Non-enclosed C&D recyclers

Drop-off facilities

- Waste and recycling drop-off points accessed by the general public

Not assessing sites for their suitability for landfills

Step 1:

The site assessment process will be undertaken in several stages.

The first step will be the assessment of **industrial, potential industrial and Water Corporation nominated areas** in Perth and Peel using **Stage 1** (broad) criteria to determine their suitability for **enclosed waste facilities**.

Types of potential waste facility sites to be assessed:

- Industrial (MRS/PRS)
- Potential industrial areas (EELS)
- Water Corporation nominated areas

This step 1 site assessment process will:

- Broadly identify areas that are potentially suitable for the development of enclosed waste facilities
- Prioritise sites in relation to their suitability for development of enclosed waste facilities
- Give a general indication of the types of enclosed waste facilities that may be suitable (or not suitable) for development at each site

This step 1 site assessment process will NOT:

- Identify particular lots/blocks of land for the development of waste facilities
- Identify sites for the development of specific waste facilities (i.e. specify the exact type and capacity of a facility to be developed on the site)
- Replace the normal planning and approvals processes for development of waste facilities

Other activities:

- Integration of potential new waste facilities with existing waste facilities.
- WA land use planning system: ways to secure sites for waste management activities into the future and support the development of new waste facilities (e.g. MST, SPP).
- Modelling: different combinations of waste facilities/technologies; waste facility capacity over time.
- Mechanisms for the potential acquisition, management and development of waste facility sites.
- Governance and funding models which could facilitate the development of the required waste infrastructure.

Seeking input today:

The Strategic Waste Infrastructure Planning Working Group is seeking comments/feedback on:

- The Site Selection Objective
- The Stage 1 site assessment criteria
- The Stage 2 site assessment criteria
- The sites to be assessed
- The site assessment process in general

Providing Feedback: The SWIPWG would welcome your input. Please email comments or feedback to swipwg@der.wa.gov.au