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