

## دیتاشیت حوضچه‌های دفن زباله



| CRITERIA                            |                                     | CLASSIFICATION   |   |  |  |   |
|-------------------------------------|-------------------------------------|--|---|--|--|---|
|                                     |                                     | Asbestos disposal cell   | Small   | Medium                                   | Large  | Restricted (including treated low level contaminated waste or LLCW)                   |
| <b>Intended use or service area</b> |                                     | A disposal cell intended for regional or single project disposal sites for asbestos wastes | Very small landfills in remote, low rainfall areas servicing local community only where there is a low risk to groundwater        | Landfills servicing local community only | Regional landfills accepting municipal, commercial and industrial wastes | Regional or special purpose landfills accepting treated high level contaminated waste |
| <b>Size</b>                         | Filling rate                        | – <sup>2</sup>   | <5,000 tpa  | <20,000 tpa                              | –  | –   |
|                                     | Average Depth                       | <10 m  | <10 m   | <30 m                                    | –  | –   |
| <b>Location</b>                     | Geology                             | Geotechnically suitable  | <ul style="list-style-type: none"> <li>Geotechnically suitable</li> <li>Founded in natural low permeability clay soils</li> </ul> | Geotechnically suitable                  | Geotechnically suitable  | Geotechnically suitable   |
|                                     | Groundwater separation <sup>3</sup> | >2 m groundwater separation  | >2 m groundwater separation   | >2 m groundwater separation              | >2 m groundwater separation  | >2 m groundwater separation   |

| CRITERIA  |   | CLASSIFICATION                                 |  |   |  |  |
|---|---|--|--|---|--|--|
|   |   | Asbestos disposal cell                         | Small  | Medium  | Large  | Restricted (including treated low level contaminated waste or LLCW)  |
|   | Groundwater total dissolved solids <sup>4</sup> | >3,000 mg/L total dissolved solids             | >13,000 mg/L total dissolved solids  | >13,000 mg/L total dissolved solids   | >3,000 mg/L total dissolved solids   | >13,000 mg/L total dissolved solids  |
|   | Groundwater beneficial use <sup>5</sup>         | No extraction or beneficial use of groundwater | No extraction or beneficial use of groundwater   | No extraction or beneficial use of groundwater  | Groundwater extraction or beneficial use of groundwater  | No extraction or beneficial use of groundwater   |
| <b>Waste acceptance restriction (to be effected by conditions of licence)</b> | Inclusions                                      | Asbestos                                       | <ul style="list-style-type: none"> <li>• Municipal solid waste<sup>6</sup></li> <li>• Construction and demolition waste</li> </ul> | <ul style="list-style-type: none"> <li>• Municipal solid waste</li> <li>• Construction and demolition waste</li> <li>• Commercial and industrial waste</li> </ul> | <ul style="list-style-type: none"> <li>• Municipal solid waste</li> <li>• Construction and demolition waste</li> <li>• Commercial and industrial waste</li> <li>• Contaminated soils<sup>7</sup> that meet LLCW criteria without immobilisation</li> </ul> | <ul style="list-style-type: none"> <li>• Waste that has been immobilised to meet LLCW</li> <li>• Waste that meet LLCW criteria</li> <li>• Co-disposal of other wastes as permitted by licence</li> </ul> |

| CRITERIA                        |                            | CLASSIFICATION  |   |   |  |  |
|---------------------------------|----------------------------|---|---|---|--|--|
|                                 |                            | Asbestos disposal cell  | Small   | Medium  | Large  | Restricted (including treated low level contaminated waste or LLCW)  |
|                                 | Exclusion                  | All other waste including municipal solid waste, construction and demolition waste, commercial and industrial waste, listed waste | All other waste including commercial and industrial, listed waste | All other waste that exceeds Intermediate criteria  | All other waste that exceeds Intermediate criteria   | All other waste that exceeds LLCW criteria<br>Restrictions on co-disposal of other wastes by license   |
| Containment system <sup>8</sup> | Liner type                 | Reworked in-situ soils  | Reworked in-situ soils  | 1x10 <sup>-9</sup> CCL  | Composite  | Double composite   |
|                                 | Liner profile <sup>9</sup> | Site soils reworked and compacted (300 mm)  | Site soils reworked and compacted (300 mm)                        | <ul style="list-style-type: none"> <li>• Separation geotextile</li> <li>• 300 mm drainage</li> <li>• 600 mm CCL<sup>10</sup></li> </ul> | <ul style="list-style-type: none"> <li>• Separation geotextile</li> <li>• 300 mm drainage</li> <li>• Geomembrane</li> <li>• 1 metre CCL (1x10<sup>-9</sup>)</li> </ul> | <ul style="list-style-type: none"> <li>• Separation geotextile</li> <li>• 300 mm drainage</li> <li>• Geomembrane</li> <li>• 600 mm CCL (1x10<sup>-9</sup>)</li> <li>• Drainage</li> <li>• Geomembrane</li> <li>• 600 mm CCL (1x10<sup>-9</sup>)</li> <li>• Low permeability attenuation layer (1x10<sup>-7</sup>)</li> </ul> |

| CRITERIA |                                   | CLASSIFICATION  |  |  |  |  |
|----------|-----------------------------------|---|--|--|--|--|
|          |                                   | Asbestos disposal cell  | Small  | Medium   | Large  | Restricted (including treated low level contaminated waste or LLCW)  |
|          | Leachate management               | –   | –  | Leachate collection limiting head on liner to <0.3 m plus a disposal system  | Leachate collection limiting head on liner to <0.3 m plus a disposal system  | Leachate collection limiting head on liner to <0.3 m plus a disposal system  |
|          | Design seepage rate <sup>11</sup> | N/A   | N/A  | N/A  | 10 litres/ha/day   | 1 litre/ha/day   |
|          | Cap                               | <ul style="list-style-type: none"> <li>• Appropriate vegetation</li> <li>• Topsoil</li> <li>• 1 m subsoil<sup>12</sup></li> </ul> | <ul style="list-style-type: none"> <li>• Appropriate vegetation</li> <li>• Topsoil</li> <li>• 600 mm well-graded subsoil<sup>13</sup></li> </ul> | <ul style="list-style-type: none"> <li>• Appropriate vegetation</li> <li>• Topsoil</li> <li>• 1.5 m total thickness<sup>14</sup></li> <li>• Drainage&lt;liner seepage</li> </ul> | <ul style="list-style-type: none"> <li>• Approved vegetation</li> <li>• Topsoil</li> <li>• 1.5 m total thickness</li> <li>• Drainage&lt;liner seepage</li> </ul> | <ul style="list-style-type: none"> <li>• Approved vegetation</li> <li>• Topsoil</li> <li>• 1.5 m total thickness</li> <li>• Drainage&lt;liner seepage</li> </ul> |