

# Quality Control Standard for the Underground Reservoirs

## Construction record during work

Work	Control item	Control standard	Confirmation method
Bentonite sheet installation	Overlapping width	150mm or more	Scale measurement (Result: OK)
Impermeable sheet installation (First and second layer)	Overlapping width	100mm or more	Scale measurement (Result: OK)
	Defect of the sheet base material	There shall be no spark generated. (Voltage: 15,000V or more)	Spark test*1 (Result: OK)
	Defect of areas automatically welded	There shall be no air leakage and the pressure decrease rate shall be 20% or less. (Pressure: 150kPa, retention time: 30 seconds)	Pressure-proof test*1 (Result: OK)
	Defect of areas manually welded	There shall be no air bubbles generated. (Gauge pressure: approx. -6.7kPa, retention time:10 seconds)	Negative pressure test*1 (Result: OK)
	Strength of welding areas of the sheet	160N/cm or more	Shear test on the welding area (Result: OK)

\*1 Performed in accordance with "Revised guideline for plan, design, and management of MSW landfill-sites (2010)" issued by the Japan Waste Management Association.

## Construction record at the time of completion

Item	Control item	Control standard	Confirmation method
Water filling test	Water levels of the reservoir and the leakage detection hole	<ol style="list-style-type: none"> <li>1. There shall be no water leakage.</li> <li>2. There shall be no significant decrease in the reservoir water level/significant increase in the leakage detection hole water level (excluding impact of rainfall and seasonal fluctuations).</li> </ol>	Confirm the water gauge data (Result: OK)