

## Climate change resilience plan

Adaptations to the EMS could be required subject to the risks posed by climate change, the following changes could impact daily site operations.

- higher average temperatures – particularly in summer and winter – may be around 7 degrees higher than the average summer temperature now with the potential to reach over 40 degrees
- more heat waves and hot days
- changes in rainfall patterns and intensity
- more storms

Potential climate risk	Pathway	Controls
Increase in daily summer temperature.	Increase in dust, odour or pests as a result of warmer weather conditions.	Pest control measures could be put in place if required  In periods of hot weather, a daily exchanges of skips are in place to eliminate possible issues of dust and odour.
	Overheating vehicles	Vehicle maintenance scheduled for every 6 weeks.  Site to be cleared early in the day to ensure vehicles are not operating during hottest periods.  All vehicles are air conditioned.
	Increase in hot waste such as BBQ's being deposited on the beach and the increased possibility of fires.	Visual monitoring by beach clearance team when operating the mechanical rake.

		Additional monitoring of waste brought in from the beach during summer months.
	Impact on Site Staff working in higher temperature	Air conditioned welfare facilities are available with access to water and shade. Staff are able to take additional breaks during periods of warm weather.  PPE – site staff are able to wear hats in warm weather and sun lotion is provided.
	Increased demand for water locally could cause issues for water supply on site	Monitor activities that use water in times of warmer weather.  Ongoing maintenance of water supply infrastructure to check for leaks.
Extreme rainfall or snowfall	Flooding – access to site for vehicles depositing and removing waste.  Drainage could be compromised during periods of heavy rainfall leading to leachate going into the water supply.	Drainage systems checked and monitored as part of ongoing site maintenance.  Gully suckers to service the drainage if they are full.
	Frozen pipes causing issues for water supply to the welfare and office facilities.  Impact on structure on buildings from heavy snowfall.	Regular inspections of site infrastructure to identify repairs required and ensure integrity of building.  Prompt clearing of snow on site.
	Ability to move waste from site could be compromised in inclement weather or heavy rainfall as vehicles may not be able to gain access due to road network or conditions on site.	Amounts of waste monitored daily to ensure that volumes of waste are well within the agreed limits.

<p>Increase in wind speed/storms</p>	<p>Safety of site with potential for waste escaping from containers.</p>	<p>Daily site inspections in place and litter picking could be increased to deal with problems caused by litter.</p> <p>Monitoring waste levels in the skip to reduce the risk of waste becoming airborne, trying to keep levels below top of the skip. Frequent exchange of skips in place.</p>
	<p>Signage or other fixtures or structures at the site being displaced by the wind, potentially causing damage to vehicles or injury to staff or residents.</p> <p>Risk to staff when opening heavy gates in high winds.</p>	<p>Signs to be checked as part of site inspections to ensure safety in periods of high winds.</p>
	<p>Loss of power in heavy storms</p>	<p>Site would be required to close without water/electricity due to employer's obligation to provide welfare facilities for operational staff</p>