

Potential changing climate variable	A Impact	B Likelihood	C Severity	D Risk (B x C)	E Mitigation (what will you do to mitigate this risk)	F Likelihood (after mitigation)	G Severity (after mitigation)	H Residual risk (F x G)
	<p>dewatering of the dredgings prior to treatment via screening.</p> <p>It's considered that the proposed waste type is not putrescible and therefore will not biodegrade to produce offensive odours.</p> <p>Furthermore, it's considered that proposed waste type is not combustible in nature.</p> <p>As such, it's considered that there will not be any negative impacts arising from an increase in the summer daily temperature.</p>							
2. Winter daily maximum temperature could be 4°C more than the current average.	In light of the comments mentioned above, it's considered that there will be no negative impacts arising from an increase in the winter daily temperature.	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3. The biggest rainfall events are up to 20% more intense than current extremes (peak rainfall intensity)*.	<p>Increase in rainfall intensity may result in an increased risk of surface water flooding. Subsequently, this may result in the following impacts: -</p> <p>a) Surface water drainage system overload; and</p>	<p>a) 3</p> <p>b) 3</p>	<p>a) 2</p> <p>b) 2</p>	<p>a) 6</p> <p>b) 4</p>	All drainage and containment infrastructure will be regularly managed and inspected to ensure continuing integrity and fitness for purpose. In the event that any damage breaches the integrity of the engineered containment so that it no longer meets the required standards, necessary remedial work will be completed as soon as practicable.	<p>a) 2</p> <p>b) 2</p>	<p>a) 2</p> <p>b) 2</p>	<p>a) 4</p> <p>b) 4</p>

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	b) Overtopping of bunds.				If necessary, Boskalis will review their site operations and implement measures to minimise the likelihood of surface water flooding. For example, changes to stock management within the lagoon area to provide more capacity for any increased rainfall.			
4. Average winter rainfall may increase by 29% on today's averages.	As mentioned above, an increase in rainfall may result in an increased risk of flooding. Subsequently this may result in the following impacts: - a) Surface water drainage system overload; and b) Overtopping of bunds	a) 3 b) 3	a) 2 b) 2	a) 6 b) 4	All drainage and containment infrastructure will be regularly managed and inspected to ensure continuing integrity and fitness for purpose. In the event that any damage breaches the integrity of the engineered containment so that it no longer meets the required standards, necessary remedial work will be completed as soon as practicable. If necessary, Boskalis will review their site operations and implement measures to minimise the likelihood of surface water flooding. For example, changes to stock management within the lagoon area to provide more capacity for any increased rainfall.	a) 2 b) 2	a) 2 b) 2	a) 4 b) 4
5. Sea level could be as much as 0.6m higher compared to today's level *.	The site is not located on the coast however, the site is located next to the River Mersey and therefore an increase in sea levels may levels within the River Mersey	3	2	6	Boskalis will regularly monitor river levels and review any changes. If necessary, a flood risk assessment will be undertaken which will consider the	2	2	4

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	and therefore may result in flooding.				requirement for flood defences to mitigate the impact of flooding.			
6. Drier summers, potentially up to 38% less rain than now.	<p>Increase in summer temperatures may result in increased risk to dust emissions during treatment (via screening) and subsequent storage.</p> <p>Although the dredgings will be pumped from the River Mersey, there will be some vehicle movements associated with onward transportation of processed material. As such, an increase in summer daily temperatures may result in an increased risk to dust emissions from vehicle movements.</p>	3	2	6	<p>As part of the proposed waste operation, Boskalis will undertake daily visual assessment to assess dust levels. Wind speeds will also be recorded on a daily basis in order to assess the risk of dust.</p> <p>A record of these assessments will be maintained and monitored on a regular basis in order to identify any significant trends that may result in an increased risk to dust.</p> <p>If necessary, Boskalis will review site operations and consider the implementation of dust suppression systems. This may include a rainwater harvesting system which will also help to mitigate the impact of increased rainfall.</p>	2	2	4
7. At its peak, the flow in watercourses could be 35% more than now, and at its lowest it could be 70% less than now.	Increased stress on the River Mersey at discharge point.	3	2	6	Manage the discharge flow rate to avoid impacts.	2	2	4

*Indicates data has come from climate change allowances as part of the spatial planning process. Evidence from your planning submission is acceptable evidence for this worksheet.