



Likelihood	Description of Likelihood
Almost certain	Almost certain to occur within the foreseeable future (ie occur within a year)
Likely	Likely to occur within the foreseeable future or in most circumstances (ie occur 1 in 5 years)
Possible	Might occur within foreseeable future (ie occur in 5-10 years)
Unlikely	Not likely to occur within the foreseeable future (ie occur within 10-30 years)
Rare	Will only occur in exceptional circumstances (ie once in >30 years)

Consequence	Description of Consequence
Insignificant	Little impact to the environment.
	Little impact to amenity of surrounding community
Minor	Minor degradation of the environment.
	EPA unlikely to issue a Pollution Abatement notice.
	Requiring minor rectification works of <\$10,000.
Moderate	Noticeable degradation of the environment.
	Moderate exceedances of guideline values.
	EPA enforcement: issue of remedial notice requiring moderate works (\$10,000 - \$50,000)
Major	Serious degradation of the environment.
	Major exceedance of guideline values.
	Major environmental impact on a small area.
	EPA enforcement: issue of remedial notice requiring major works (\$50,000 - \$100,000)
Critical	Major environmental impact on a large area.
	Severe impact with regulatory action including prosecution.
	Remedial works costing >\$100,000.



Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Critical
Almost certain	Medium (5)	Significant (10)	High (15)	High (20)	High (25)
Likely	Medium (4)	Medium (8)	Significant (12)	High (16)	High (20)
Possible	Low (3)	Medium (6)	Medium (9)	Significant (12)	High (15)
Unlikely	Low (2)	Low (4)	Medium (6)	Medium (8)	Significant (10)
Rare	Low (1)	Low (2)	Low (3)	Medium (4)	Medium (5)

Activity	Area	Impact	Receptor	Description	Likelihood	Consequence	Risk	Control	Short Term Action	Medium Term Action	Long Term Action	Comment
Material Transfer	Material Transfer Pump	Odour	Neighbours, workers and nearby businesses	Pump failure stopping delivery of material to rendering plant	Unlikely	Minor	Low	SCADA system	Hold material in existing raw material hopper at abattoir.	Repair / replace pump	Transport material via forklift until repairs are made.	
	Material Transfer Pipe	Contamination	Soil	Pipe failure causing material spillage between abattoir and rendering plant	Unlikely	Minor	Low	Weekly Inspections of transfer pipeline	Hold material, contain and clean up spillage.	Repair pipe and inspect entire pipeline	Transport material via forklift until repairs are made.	
		Odour	Neighbours, workers and nearby businesses	Pipe failure causing material spillage between abattoir and rendering plant	Rare	Minor	Low	Weekly Inspections of transfer pipeline	Hold material, contain and clean up spillage.	Repair pipe and inspect entire pipeline	Transport material via forklift until repairs are made.	Buffer of 650m to nearest neighbour, PPE and operational procedures to manage odour for workers
Material Processing (Rendering)	Raw Material Area	Odour	Neighbours, workers and nearby businesses	Equipment failure in the raw material area causing minor odour release	Possible	Moderate	Medium	SCADA system	Halt operations / hold material.	Appropriate repairs will be conducted	Transport material off-site for processing.	
	Cooking and Pressing	Odour	Neighbours, workers and nearby businesses	Cooker / screw press breakdown halting input of product	Possible	Moderate	Medium	SCADA system	Halt operations via interlock. Hold material.	Appropriate maintenance will be scheduled and conducted	Transport material off-site for processing should repairs fail.	
	Meal Area	Odour	Neighbours, workers and nearby businesses	Equipment failure of hammer mill, screw press or other resulting in inability to receive material from the cooker.	Possible	Moderate	Medium	SCADA system	Hold material in cake bin while repairs are undertaken.	Halt operations until appropriate repairs are undertaken.	Transport material off-site for processing.	
		Noise pollution	Neighbours, workers and nearby businesses	Noise from the operation of machinery	Unlikely	Minor	Low	Operator process check	Workers to wear PPE, building acoustically treated with double skin Colourbond.	Schedule and perform appropriate maintenance of plant and equipment	Replace equipment / transport material off-site for processing	Noise assessment undertaken confirms sound levels during operation are acceptable.
	Tallow / Meal Loading	Contamination / odour	Neighbours, workers and nearby businesses and environment	Build up of material for truck loading causing spillage	Rare	Minor	Low	SCADA system	Hold loading, clean and dispose of spoiled material	Hold material in storage tanks / hoppers. Arrange alternative transport contractor	Shut-down plant and transport raw material offsite for processing	
	Tallow Area	Odour	Neighbours, workers and nearby businesses	Failure of tallow processing equipment resulting in inability to receive material from the cooker.	Possible	Moderate	Medium	SCADA system	Halt operations / hold material	Appropriate repairs will be conducted	Transport material off-site for processing.	
		Odour / Contamination	Neighbours, workers and nearby businesses and environment	Pipe failure causing tallow spillage within rendering plant	Unlikely	Minor	Low	Operator process check	Halt operations / hold material	Appropriate repairs will be conducted	Transport material off-site for processing.	
	Tallow / Meal Loading	Odour	Neighbours, workers and nearby businesses and environment	Build up of material for truck loading causing spillage	Rare	Minor	Low	SCADA system	Hold loading, clean and dispose of spoiled material	Hold material in storage tanks / hoppers. Arrange alternative transport contractor	Shut-down plant and transport raw material offsite for processing	
		Contamination	Environment	Spillage of material during truck loading	Possible	Minor	Medium	SCADA system	Halt processing. Contain spillage to prevent from spreading further.	Appropriate repairs will be conducted	Transport material off-site for processing should repairs fail.	Loading is undertaken on concrete hardstand. Storm / wash water drains to grated pits / sumps for treatment in existing wastewater treatment plant.



Activity	Area	Impact	Receptor	Description	Likelihood	Consequence	Risk	Control	Short Term Action	Medium Term Action	Long Term Action	Comment
Odour capture system	The Odour Unit has also prepared a risk assessment and provided it as a commercial in confidence document.											
Biofilter	The Odour Unit has also prepared a risk assessment and provided it as a commercial in confidence document.											
Services	Electricity	Odour	Neighbours, workers, nearby businesses, motor vehicles	Equipment fault / failure resulting in odour release outside building	Rare	Moderate	Low	SCADA system	Halt processing via interlock.	Appropriate repairs will be conducted	Transport material offsite	The facility will utilise mixed power generation sources. Loss of one source wouldn't result in total power loss.
	Steam				Possible	Moderate	Medium	SCADA system	Halt operations / hold material	Appropriate repairs will be conducted	Transport material offsite	
	Water				Possible	Moderate	Medium	SCADA system	Halt operations / hold material	Appropriate repairs will be conducted	Transport material offsite	
	Compressed air				Possible	Moderate	Medium	SCADA system	Halt operations / hold material	Appropriate repairs will be conducted	Transport material offsite	