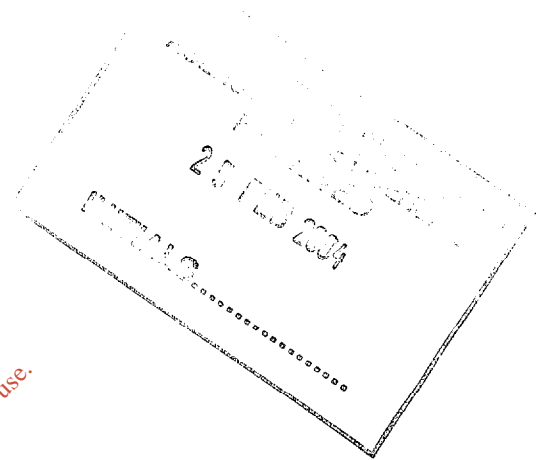


## Appendix 4

### Tabulated Contingency Plans



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Dublin - Contingency Plans

Main Asset	Sub-Asset	Failure Mode	Contingency Path Order	To be Implemented normally by	Expected period of delay before returning to normal operation	Impact on Collection	Comments
Transport	Drivers	Loss of 1 driver	Use relief driver	Transport Manager	2 hours	2 hours	Refer to Emergency Advice Manual (EAM) Page 3. As above. Also inform Plant Manager. As above. Also inform CEO.
	Drivers	Loss of 2-3 drivers	Use standby drivers.	Transport Manager	4 hours	4 hours	
	Driver	Non-availability of further drivers	1) Use subcontract drivers. 2) Use Agency driver(s)	Transport Manager	8 hours	8 hours/next day	
	Vehicles	Loss of 1 vehicle	Use STI spare vehicle	Transport Manager	4 hours	4 hours	
	Vehicles	Loss of more than 1 vehicle	Use subcontract vehicle	Transport Manager	6 hours	6 hours/next day	
Bin Tracking	Vehicles	Loss of further vehicles	Use Agency vehicles	Transport manager	Next day	Next day	As above. Also inform CEO
	Driver Scanner	Loss or non-operation	Use spare (2 no.)	Driver / Foreman	None	None	
Weighing system	Check-in Scanner	Failure to operate	Use Spare	Operative/foreman	None	None	Utilise back-up paper system of logging. Inform Transport Officer. Order new reader – see EAM Page 6 Same as above
	Load cells	Failure to operate	1) Hold bins in stock if repair not likely to be in excess of 4 hours. 2) Utilise alternative weigh scales and forklift if longer than 4 hours or to clear back log	Plant supervisor	Maximum 4 hours	None	
Bin collection system	Software	Software corruption	Clean disc and re-programme software, or provide new computer if required	Plant supervisor	8 hours	None	Call out contractors – Ref. EAM Page 6. Inform Plant Manager
Bin Hoist	Motor	Burnt out	Electrical contractor to replace from motor on STI stock.	Plant supervisor	Average 4 hours	None	Inform Plant Manager of expected period of outage from contractors. Inform IT manager – see EAM Page 2. Use replacement PC if required See above
	Chain/pulleys	Broken	Mechanical contractor to replace from STI stock	Plant supervisor	Average 4 hours	None	
Shredder	Hydraulic components	Broken	Use hydraulic contractor	Plant supervisor	8 hours	None	Call out contractor. See EAM Page 6
	Blades	Chipped due to Inappropriate Waste	Ascertain damage – continue to run until weekend PPM, if not affecting shredding size	Plant supervisor	None	None	
	Blades	Broken and affecting shredding size	Replace broken blades from STI stock, by mechanical contractor/ STI maintenance staff	Plant Supervisor	1 day	None	
	Motor	Burnt out	Electrical contractor to replace motor	Plant supervisor	8 hours max	None	
STI Auger	Motor	Burnt out	Electrical contractor to replace motor/gearbox from STI stock.	Plant supervisor	8 hours	None	See EAM Page 6

Main Asset	Sub-Asset	Failure mode	Contingency path order	To be implemented normally by	Expected period of delay before returning to normal operation	Impact on collection	Comments
Steam supply	Electric boiler	Element failure.	Electrical contractor to replace from items on STI stock.	Plant supervisor	No Impact. Elements can be replaced at weekly PPM 4 weeks	None	See EAM Page 6
	Boiler Shell	Collapse	Order new item	Plant supervisor		None	Contingency mobile boiler available in 8 hours. See EAM Page 6.
VOC extraction plant	Motor	Burnt out	Electrical contractor to replace from motor on STI stock.	Plant supervisor	4 hours	None	See EAM Page 6
Forklift		1. Unable to run	Fork lift to be repaired	Plant supervisor	4 hours	None	Use Pallet truck and store bags until repaired See EAM page 6
		2. Unable to be repaired with 4 hours	Hire fork lift	Plant supervisor	1 Day	None	
Landfill site	Contaminated by Others.	Unable to receive waste	Instigate alternative landfill site contingency	Plant Manager	1 day	None	Inform CEO. Advise Dublin JWMB Representative - ref EAM Page 1
Fire within plant	All sub assets incapacitated- no plant available of any description	Unable to treat waste in excess of 1 week	Instigate alternative treatment in Belgium	Plant manager	1 day	None - possible 1	Inform CEO. Advise Dublin JWMB Representative - ref EAM Page 1
Industrial dispute	Drivers	No STI drivers available	Use contingency drivers	Transport Officer	1 Day	1 Day	See EAM Page 3
	Plant operatives	1 day to Indefinite	Use management staff	Plant manager and CEO	1 day to indefinite	None	All senior staff have received inoculations and training (8 no.) and can run each plant . Inform CEO. Advise Dublin JWMB Representative - ref EAM Page 1
Arson	Complete destruction of premises.	No Plant Available	Organise new premises and plant	CEO	6 months	1 day	Utilise Second Processing Channel. If demand exceeds capacity of processing capability, invoke contingency contract for waste to be treated in Belgium. Inform CEO. Advise Dublin JWMB Representative - ref EAM Page 1
Water	Steam, Hot water etc	Disruption in Supply	Organise repair via approved contractor	Plant manager	1 day	None	See EAM Page 6.
Electricity	General purposes	Continued outage	Use water lorry and pump	Plant manager	1 day	None	See EAM Page 6
		Disruption in Supply	Organise repair by electric company	Plant manager	2 days	None	If expected to be greater than 2 days: Contingency contract for waste to be treated in Belgium invoked Inform CEO. Advise Dublin JWMB Representative - ref EAM Page 1

Main Asset	Sub-Asset	Failure mode	Contingency path order	To be implemented normally by	Expected period of delay before returning to normal operation	Impact on collection	Comments
IT System	Power Supply	Interruption to supply	UPS with 6 hrs back up	IT Manager	0 hrs	None	Investigate the viability of a back up generator in the event of an outage for longer than 6 hours. By definition RAID 5 provides the required automatic redundancy facility N/a Any data can be retrieved by either restoring from back up or from the replicated database in Antrim  IT manager to repair or replace as appropriate. IT manager to repair or replace as appropriate. Mirrored server identical to main server in second premises, Unit 420. Record all data transaction manually until the system is restored. Manually input all data into database.  IT manager to repair or replace as appropriate
	Server Hard Drives	HDD Failure	RAID 1 & RAID 5	IT Manager	0 hrs	None	
	Data Data	File Deletion by error Data Corruption	Daily, Weekly, Monthly Back ups Daily, Weekly, Monthly Back ups and database replication	IT Manager	3 hrs	None	
				IT Manager	3 hrs	None	
	Desktops	Equipment Failure Non Critical	Service agreement with Vendor	IT Manager	2 Days	None	
	Servers e.g. Exchange Server	Equipment Failure Non Critical	Service agreement with Vendor	IT Manager	2 Days	None	
	Mediawaste Server	Equipment Failure Critical	Mirrored Server	IT Manager	1 hrs	None	
	Servers	Fire Damage to Servers	Service agreement with Vendor	IT Manager	5 days	None	
Servers	Fire to Plant	Service agreement with Vendor	IT Manager	5 days	Maximum of 5 days		

The above contingencies are supplemented by the Emergency Advice / Procedure Manual.