

Risk Assessment

Project/Contract Name	G A Carlyon Waste Recycling Facility			The purpose of this risk assessment is to identify significant onsite and workplace risk for all employees (E), visitors (V), and the general public (P), and how to best (Mitigate) control those risks at an acceptable level to comply with the Management of Health & Safety at Work Regulations.
Activity:	Environmental Impact			
Risk Assessment No	GAC RA01	Revision No	01	
Date of Version	01/06/2025	Review Date	31/12/25	
Author	Groundscape Environmental Ltd			
Approved by	R Farmers			

This risk assessment is a live document and must be regularly reviewed by those managing, supervising, and conducting the activities to ensure the correct hazards have been identified and the control measures remain effective. Revisions to be conducted by competent personnel only, ensuring all associated documentation is revised where necessary. Updates should be communicated to all those involved in the activity, and records kept for future reference.

Risk Rating The risk rating is calculated by multiplying the likelihood of the hazard by the severity of its consequence on a 1-5 scale.		<table><tr><td rowspan="6">Severity</td><td>5</td><td>5</td><td>10</td><td>15</td><td>20</td><td>25</td></tr><tr><td>4</td><td>4</td><td>8</td><td>12</td><td>16</td><td>20</td></tr><tr><td>3</td><td>3</td><td>6</td><td>9</td><td>12</td><td>15</td></tr><tr><td>2</td><td>2</td><td>4</td><td>6</td><td>8</td><td>10</td></tr><tr><td>1</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td></td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr><tr><td colspan="6">Likelihood</td></tr></table>	Severity	5	5	10	15	20	25	4	4	8	12	16	20	3	3	6	9	12	15	2	2	4	6	8	10	1	1	2	3	4	5		1	2	3	4	5	Likelihood						Residual Risk If the initial risk rating remains at a level of 6 or above, then further control measures must be applied. Once these measures are detailed a residual risk rating must then be calculated. If this remains above 6 then you must contact your line manager for further advice.
Severity	5			5	10	15	20	25																																						
	4	4		8	12	16	20																																							
	3	3		6	9	12	15																																							
	2	2		4	6	8	10																																							
	1	1		2	3	4	5																																							
		1	2	3	4	5																																								
Likelihood																																														
Likelihood 1 = Rare 2 = Unlikely 3 = Possible 4 = Likely 5 = Certain	Severity 1 = No injury 2 = Minor injury, illness or damage 3 = Moderate injury, illness or damage 4 = Serious injury, illness or damage 5 = Fatality or major damage																																													

Do not carry out any task unless you have been briefed on this risk assessment.
Report any problems or areas of work not covered by this Risk Assessment to your line manager.

No	Hazard (Identify Hazards and the potential consequences)	Those at risk			Initial Risk Rating			Control Measures (Identify measures to eliminate, contain, reduce, or control the risk)	Residual Risk Rating		
		E	V	P	L	S	RR		L	S	RR
1	Tipping waste on site – Odour emissions to surrounding areas affecting local residents	✓	✓	✓	1	2	2	<ul style="list-style-type: none"> Permitted wastes for this site should not carry odour as a normality If odour issue is identified with waste on site, it is to be removed to an external facility at earliest opportunity or placed to quarantine. 	1	2	2
2	Engine and reverse alarm from loading shovel – Noise emissions to local businesses and residential areas	✓	✓	✓	3	1	3	<ul style="list-style-type: none"> Vehicles to operate within set operating hours Monday to Saturday Engine's to be switched off when not in use. 	1	1	1
3	Crushing aggregates – Noise emissions to local businesses and residential areas	✓	✓	✓	3	1	3	<ul style="list-style-type: none"> Crushing is an infrequent activity and performed furthest from closest properties. Restrict crushing operation periods to operate within the sites operating hours preferably in the middle of the day when possible. 	1	1	1
4	Screening operations – Noise emissions to local businesses and residential areas	✓	✓	✓	2	1	2	<ul style="list-style-type: none"> Restrict screening operation periods to operate within the sites operating hours preferably in the middle of the day when possible. 	1	1	1
5	Dust emissions from depot surface – Emissions and visual plumes to local residents with potential of affecting nearby rights of way and SSSI	✓	✓	✓	4	3	16	<ul style="list-style-type: none"> Carry out routine airborne dust measurements throughout operational periods and record in site diary and daily site inspection form. When dust issue identified. <ul style="list-style-type: none"> Crushing and screening operations to be stopped. Site movements to be kept to a minimum. Water bowser to dampen haul road at regular intervals. Sprayer/misting to be used during dusty dry conditions local to work area. Separate Dust management plan in place, which should be adhered to ensure dust is managed correctly. 	2	2	4
6	Debris on surrounding roads/highway – Lorries arriving and leaving the site with debris on chassis or falling from vehicle load, including dust.	✓	✓	✓	3	3	9	<ul style="list-style-type: none"> All vehicles are sheeted before arrival and departure before accessing highway. All drivers will inspect and brush down vehicle chassis before leaving site/waste producer site. Vehicles loaded with sufficient freeboard that material is secure. No need for vehicles to drive through muddy surfaces before leaving and therefore unlikely to track mud onto the road. 	2	2	4

No	Hazard (Identify Hazards and the potential consequences)	Those at risk			Initial Risk Rating			Control Measures (Identify measures to eliminate, contain, reduce, or control the risk)	Residual Risk Rating		
		E	V	P	L	S	RR		L	S	RR
								<ul style="list-style-type: none"> Site inspected during the day for any material build up on access route through the site and will be swept/cleared if required. Vehicles can be hosed down before leaving if deemed necessary. 			
7	Storage of fine dusty wastes – Emissions and visual plumes to residential properties and local business with potential of affecting public right of way and SSSI	✓	✓	✓	3	3	9	<ul style="list-style-type: none"> Stockpiles to be maintained at minimal levels as per permit conditions. Surface vegetation will stabilise soil stockpiles. Carry out routine airborne dust measurements throughout operational periods and record in site diary and daily site inspection form. Separate Dust management plan in place which should be adhered to ensure dust is managed correctly. 	2	2	4
8	Dust emissions from waste handling, treatment and transfer – Emissions and visual plumes to residential properties and local business with potential of affecting public right of way and SSSI.	✓	✓	✓	4	3	12	<ul style="list-style-type: none"> Carry out routine airborne dust measurements throughout operational periods and record in site diary and daily site inspection form. Plan work around local conditions (damp days) and in areas of the site with lowest potential to give rise to airborne particles (i.e. sheltered) When dust issue identified. <ul style="list-style-type: none"> Crushing and screening operations to be stopped. Site movements to be kept to a minimum. Water bowser to dampen haul road at regular intervals. Sprayer/misting to be used during dusty dry conditions local to work area. Separate Dust management plan in place, which should be adhered to ensure dust is managed correctly. Ensure spray suppression is in use on crusher at all times. 	2	2	4
9	Spillages and leaks from plant and equipment – contamination of land.			✓	3	2	6	<ul style="list-style-type: none"> Fuel store is in a mobile bunded container which is to be stored on sealed surface. Drip trays and spill kits to be used when any fuelling or topping up of oils is in progress, Regular checks of plant and equipment for leaks, if any are identified then the plant or equipment will be removed from service until a repair is carried out. Accident management plan in place for guidance to deal with any incident that occurs on site. 	1	2	2

No	Hazard (Identify Hazards and the potential consequences)	Those at risk			Initial Risk Rating			Control Measures (Identify measures to eliminate, contain, reduce, or control the risk)	Residual Risk Rating		
		E	V	P	L	S	RR		L	S	RR
10	Surface water – contamination of land, groundwater and watercourses			✓	1	3	3	<ul style="list-style-type: none"> Site is not near any open water sources and is not within a ground water protection zone. All materials on site are inert. 	1	3	3
11	Pest issues – potential of spreading disease and having adverse effects on health to local businesses and residential areas.	✓	✓	✓	3	3	9	<ul style="list-style-type: none"> Site is regularly litter picked. Checking for litter on site is part of the daily site checks and recorded on the Daily check sheet. No general or food waste present on site. 	1	3	3
12	Litter – potential to cause a negative impact on the environment and potential pest issues affecting local businesses, residential areas and local road networks.	✓	✓	✓	3	2	6	<ul style="list-style-type: none"> Site is regularly inspected and litter picked when necessary. Checking for litter on site is part of the daily site checks and recorded on the Daily check sheet. No general or food waste present on site. 	1	2	2
13	Plant or equipment failure – contamination of land, drains, groundwater and watercourses			✓	2	1	2	<ul style="list-style-type: none"> Plant and equipment are serviced and maintained at regular intervals and daily checks undertaken to ensure that they are not defective. Site has been developed so that delay to treatment process from machine or equipment failures do not have environmental consequences if they occur, as they do not have a direct role in the treatment process and would just delay sorting/ processing of stockpiled waste. 	1	1	1
14	Fire – potential to cause contamination of land, drains, groundwater and watercourses, visual plumes and smoke affecting local businesses and residential areas.	✓	✓	✓	2	4	8	<ul style="list-style-type: none"> No fires to be lit on site. Staff are briefed to ensure they check for any smouldering loads during deposit. Highly unlikely given permitted (non-combustible) waste on site. Fire extinguishers to be positioned on site at regular intervals. Good housekeeping is promoted on site to reduce risk of ignition sources on the site. Accident management plan in place to refer to if fire occurs. 	1	4	4
15	Vandalism - potential for fires or leakage of liquids stored on site which could cause contamination of land, drains, groundwater and watercourses affecting local businesses and residential areas	✓	✓	✓	2	4	8	<ul style="list-style-type: none"> Site security gates installed and securely locked at night and signage in place. Site staff are also briefed on ensuring that all equipment, storage and office facilities are securely locked before they lock up site at the end of the day. Accident management plan in place to deal with any incident on discovery. 	1	4	4

No	Hazard (Identify Hazards and the potential consequences)	Those at risk			Initial Risk Rating			Control Measures (Identify measures to eliminate, contain, reduce, or control the risk)	Residual Risk Rating		
		E	V	P	L	S	RR		L	S	RR
16	General operations – potential of causing harm to the surrounding environment and local biodiversity.			✓	4	2	8	<ul style="list-style-type: none"> Site to be run in line with set processes and procedures to ensure that minimum impact to the environment occurs from general operations. 	2	2	4