

Environmental Risk Assessment: Review of Risk of Contamination to Soil and Groundwater

This document is linked to the facility Environmental Risk Assessment. This document has been compiled to extract the control measures that are in place to minimise/prevent the risk of contamination to soil and groundwater

Date of Assessment			01 June 2021			
Hazard	Receptor	Pathway	Risk management techniques	Probability of exposure	Consequence	Overall risk
Spillage of liquids (chemicals, oils, fuel)	Groundwater	Transport through soil/groundwater then extraction	<ul style="list-style-type: none"> All chemicals / oils are stored with secondary containment Fuel is not stored on site All storage areas have impermeable surfaces with sealed drainage to foul sewer Appropriate drainage in place The integrity of the infrastructure of the facility is checked and recorded daily to ensure that these entry points to groundwater and soils are avoided. Emergency procedures in place (including response to spillages/deployment of drainage bungs) Security measures are also in place to prevent unauthorised access. 	Unlikely	Chronic effects, contamination of groundwater requiring treatment or closure of borehole	Low
Spillage of liquids (waste, waste leachate or contaminated run-off from rain/flood/fire)	Groundwater	Transport through soil/groundwater then extraction	<ul style="list-style-type: none"> All waste arriving at the facility, is contained within sealed UN approved packages, and stored within wheeled carts or in other rigid leakproof containers All waste storage areas have impermeable surfaces with sealed drainage to foul sewer Appropriate drainage in place 	Unlikely	Chronic effects, contamination of groundwater requiring treatment or closure of borehole	Very low

			<ul style="list-style-type: none"> The integrity of the infrastructure of the facility is checked and recorded daily to ensure that these entry points to groundwater and soils are avoided. Emergency procedures in place (including response to spillages/deployment of drainage bungs) Security measures are also in place to prevent unauthorised access. 			
Spillage of liquids (chemicals, oils, fuel)	Soil	Transport to soil through site surfaces / drains	<ul style="list-style-type: none"> All chemicals / oils are stored with secondary containment Fuel is not stored on site All storage areas have impermeable surfaces with sealed drainage to foul sewer Appropriate drainage in place The integrity of the infrastructure of the facility is checked and recorded daily to ensure that these entry points to groundwater and soils are avoided. Emergency procedures in place (including response to spillages/deployment of drainage bungs) Security measures are also in place to prevent unauthorised access. 	Unlikely	Contamination of soil requiring remediation	Low
Spillage of liquids (waste, waste leachate or contaminated run-off from rain/flood/fire)	Groundwater	Transport to soil through site surfaces / drains	<ul style="list-style-type: none"> All waste arriving at the facility, is contained within sealed UN approved packages, and stored within wheeled carts or in other rigid leakproof containers All waste storage areas have impermeable surfaces with sealed drainage to foul sewer 	Unlikely	Contamination of soil requiring remediation	Very low



			<ul style="list-style-type: none">• Appropriate drainage in place• The integrity of the infrastructure of the facility is checked and recorded daily to ensure that these entry points to groundwater and soils are avoided.• Emergency procedures in place (including response to spillages/deployment of drainage bungs)• Security measures are also in place to prevent unauthorised access.			
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