



Environmental Risk Assessment Matrix

SITES & SERVICES



Veolia Environmental Risk Assessment- Aspects and Impacts

Site: PB Leiner, Treforest.																
Date Assessed: 01/10/2018																
Date Reviewed (where applicable): 30/04/2025																
Activity/Aspect	Category															Activity Ranking
	Energy Use	Resource Use	Waste	Noise	Vibration	Ground Pollution	Air	Vibration	Odour	Pests and Vermin	Litter	Traffic/Highway	Ecology	Water	Legislative Breach	
Buildings & Offices	2	2	2	0	0	2	2	0	5	0	3	10	0	3	0	31
Abnormal Operating Conditions	9	4	0	6	4	6	6	6	5	0	0	0	6	8	8	68
Previous Land Use	0	0	10	0	0	0	0	0	0	0	0	0	10	10	0	30
Power/Heat Generation	4	4	0	6	0	0	0	10	0	0	0	0	10	0	0	34
Plant Start Up/Shutdown	4	4	0	0	0	0	3	3	3	0	0	0	2	0	2	21
Storage of Chemicals	0	0	0	0	0	6	0	0	0	0	0	3	0	6	6	21
Use of Chemicals	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	4
Oil/Fuel Storage	0	0	5	0	0	10	0	0	4	0	0	2	10	10	10	51
Temporary Boiler Plant	6	2	0	2	0	10	0	5	6	0	0	0	10	10	10	61
Environmental Benefits																



Environmental Risk Assessment Matrix

SITES & SERVICES



Veolia Environmental Risk Assessment- Aspects and Impacts								
Site Name:	PB Leiner		Assessed by:	Jon Barwick				
Activity/Aspect:	Buildings & Offices		Date:	22/06/2020				
Category	Impact and Consequence	Risk Level Before Controls			Risk Control Measures in place	Residual Risk Level - After Controls		
		L	C	R		L	C	R
For each activity/aspect consider the consequences for the following Categories	For each impact describe the nature of the impact and the environmental hazard which may develop as a consequence in the absense of control measures.	Likelihood x Consequence = Risk Level			Outline control measures you have on site to reduce risk	Likelihood x Consequence = Risk Level		
Energy Use (Electricity and Fuel (mobile and fixed plant))	Environmental impact from lighting for boilerhouse, lighting and heating for office, power for office use, electric heating for handwashing water.	2	2	4	Ongoing programme to replace all lighting with low energy alternatives. Light sensors fitted to all external lighting. Thermostatically controlled heating for office, office well	2	1	2
Resource Use (water, chemicals)	Water used for basic sanitation in site office.	2	1	2	Aerator nozzles fitted to tap outlets to reduce water consumption. Dual flush fitted to toilet cistern to reduce flush volume.	2	1	2

Waste	Waste from day-to-day use of office by staff (including welfare facilities).	2	2	4	Ongoing move to paperless office, printer removed from site. Reusable drinks bottles supplied to staff to reduce plastic cup usage for water cooler. Waste management plan in place.	2	1	2
Noise	No noise risk from buildings.	0	0	0		0	0	0
Vibration	No vibration risk from buildings.	0	0	0		0	0	0
Ground Pollution	Site office toilet drains to septic tank.	2	3	6	Only approved chemicals allowed for cleaning of sink/toilet to ensure correct performance of septic tank. Septic tank emptied on regular basis by client.	2	1	2
Visual	Visual impact of buildings in local environment	2	1	2	Buildings well shielded by natural features, situated in an industrial area. Coal hoppers removed to reduce building height by 5 metres, chimney heights reduced by 6 metres in 2016. Buildings painted in background colours to blend in.	2	1	2
Air (dust, particulates, smoke, fumes, VOCs)	Not applicable	0	0	0		0	0	0
Odour	Potential for odour from combustion plant.	5	2	10	Site operates under and Environmental Permit issued by NRW. Strict maintenance regime in place to ensure correct and reliable operation of equipment. Chimney heights determined by H1 analysis in 2016. No previous complaints recorded.	5	1	5
Pests & Vermin	Not applicable - no part of the operation invites pest	0	0	0		0	0	0
Litter	Litter from site users.	3	1	3	Site inductions for all users, waste management policy in place, bins provided around site, bins emptied on frequent basis via engineers S&E checks.	3	1	3

Traffic & Highway (Vehicles and roadways, excluding mobile plant)	Shared access road to site, forklifts in operation.	5	2	10	shared access road, security gates to restrict access to authorised users only.	5	2	10
Ecology	Not applicable	0	0	0		0	0	0
Water Contamination (Surface (Rivers, soakaway, lakes etc), Foul and groundwater)	Discharge of sewage into local environment from septic tank	3	2	6	Only approved chemicals allowed for cleaning of sink/toilet to ensure correct performance of septic tank. Septic tank emptied on regular basis by client.	3	1	3
Legislative Breach	Not applicable.	0	0	0		0	0	0

Owner: Risk & Assurance

Date: 06/20

Ref: ENV/2/004/001



Environmental Risk Assessment Matrix

SITES & SERVICES



Veolia Environmental Risk Assessment- Aspects and Impacts								
Site Name:	PB Leiner		Assessed by:	Jon Barwick				
Activity/Aspect:	Abnormal Operating		Date:	22/06/2020				
Category	Impact and Consequence	Risk Level Before Controls			Risk Control Measures in place	Residual Risk Level - After Controls		
		L	C	R		L	C	R
For each activity/aspect consider the consequences for the following Categories	For each impact describe the nature of the impact and the environmental hazard which may develop as a consequence in the absense of control measures.	Likelihood x Consequence = Risk Level			Outline control measures you have on site to reduce risk	Likelihood x Consequence = Risk Level		
Energy Use (Electricity and Fuel (mobile and fixed plant))	Increased use of natural resource (gas, fuel oil, heated water) due to inefficient running of boiler plant due to abnormal condition.	5	3	15	Strict maintenance regime in place, daily monitoring of plant efficiency and resource usage through meter readings and analysis/recording by the site team.	3	3	9
Resource Use (water, chemicals)	Heated water being diverted to drain	3	2	6	Daily monitoring of boiler water quality, condensate return under management of client.	2	2	4
Waste	Not applicable	0	0	0		0	0	0

Noise	residents from unexpected release of boiler safety relief	3	3	9	ensure safe operation, 2 points of failure before safety valve lifts.	2	3	6
Vibration	Increased noise level to local users due to vibrating burner fan.	3	2	6	Maintenance regime in place, including condition monitoring of rotating plant to identify early	2	2	4
Ground Pollution	Pollution from loss of treated boiler feedwater (ph >10, Total Alkalinity >400, <1000mg/litre). Pollution from loss of containment of Gasoil.	3	3	9	Maintenance regime in place. Daily and weekly inspections of plant to identify leaks early on. Equipment taken out of service before leaks can propagate. Gasoil only in use for testing purposes and emergency backup, regular inspections of fuel system under PPM regime to identify faulty components.	2	3	6
Visual	Dark smoke emissions from chimney stack due to abnormal	3	3	9	operation. One subject to Environmental Permit issued by NRW. Equipment maintained	2	3	6
Air (dust, particulates, smoke, fumes, VOCs)	chimney stack due to abnormal operation.	3	3	9	from NRW. Equipment maintained under maintenance regime. Daily	2	3	6
Odour	Potential for odour from combustion plant.	5	2	10	One operates under and	5	1	5
Pests & Vermin	Not applicable	0	0	0		0	0	0
Litter	Not applicable	0	0	0		0	0	0
Traffic & Highway (Vehicles and roadways, excluding mobile plant)	Not applicable	0	0	0		0	0	0
Ecology	Impact to local ecology from pollution incident.	3	3	9	One operates under and Environmental Permit issued by	2	3	6

Water Contamination (Surface (Rivers, soakaway, lakes etc), Foul and groundwater)	Pollution from loss of treated boiler feedwater (ph >10, Total Alkalinity >400, <1000mg/litre). Pollution from loss of containment of Gasoil or chemical.	3	4	12	Maintenance regime in place. Daily and weekly inspections of plant to identify leaks early on. Equipment taken out of service before leaks can propagate. Gasoil only in use for testing purposes and emergency backup, regular inspections of fuel system under PPM regime to identify faulty components. No drains within 50m of boilerhouse. Nearest watercourse 75m distant across broken ground. Nearest major watercourse >250m. Gasoil installation maintained inline with guidance. Chemical stocks limited to 1,000 litres by design of tanks, all banded.	2	4	8
Legislative Breach	Breach of permit conditions leading to increased cost to maintain permit, increased cost to client due to impact on CCS scores, potential for suspension of permit of breach considered serious enough by regulator.	4	4	16	Site operates under and Environmental Permit issued by NRW. Strict maintenance regime in place to ensure correct and reliable operation of equipment. Chimney heights determined by H1 analysis in 2016. No previous complaints recorded. Equipment maintained under maintenance regime. Daily inspections of plant to ensure correct operation and efficiency. All staff trained in Emergency Response procedures.	2	4	8



Environmental Risk Assessment Matrix

SITES & SERVICES



Veolia Environmental Risk Assessment- Aspects and Impacts								
Site Name:	PB Leiner		Assessed by:	Jon Barwick				
Activity/Aspect:	Previous Land Use		Date:	22/06/2020				
Category	Impact and Consequence	Risk Level Before Controls			Risk Control Measures in place	Residual Risk Level - After Controls		
		L	C	R		L	C	R
For each activity/aspect consider the consequences for the following Categories	For each impact describe the nature of the impact and the environmental hazard which may develop as a consequence in the absense of control measures.	Likelihood x Consequence = Risk Level			Outline control measures you have on site to reduce risk	Likelihood x Consequence = Risk Level		
Energy Use (Electricity and Fuel (mobile and fixed plant))	Not impacted by previous use.	0	0	0		0	0	0
Resource Use (water, chemicals)	Not impacted by previous use.	0	0	0		0	0	0
Waste	Disposal of contaminated soils if excavations required on site (analysis shows asbestos and heavy metals contamination). Land owned by client.	5	3	15	Any land to be excavated subjected to chemical analysis to classify waste category. All disposals notified to regulator in line with permit conditions.	5	2	10

Noise	Not impacted by previous use.	0	0	0		0	0	0
Vibration	Not impacted by previous use.	0	0	0		0	0	0
Ground Pollution		0	0	0		0	0	0
Visual	Not impacted by previous use.	0	0	0		0	0	0
Air (dust, particulates, smoke, fumes, VOCs)	Not impacted by previous use.	0	0	0		0	0	0
Odour	Not impacted by previous use.	0	0	0		0	0	0
Pests & Vermin	Not impacted by previous use.	0	0	0		0	0	0
Litter	Not impacted by previous use.	0	0	0		0	0	0
Traffic & Highway (Vehicles and roadways, excluding mobile plant)	Not impacted by previous use.	0	0	0		0	0	0
Ecology	Land is contaminated with asbestos/heavy metals/fuel oil from previous use. Analysis shows no migration through groundwater to any extent that would be considered harmful to the wider environment.	5	2	10	Land is under ownership of client. No work to be undertaken on land without prior approval of regulator. All disposal to be notified to the regulator.	5	2	10
Water Contamination (Surface (Rivers, soakaway, lakes etc), Foul and groundwater)	Land is contaminated with asbestos/heavy metals/fuel oil from previous use. Analysis shows no migration through groundwater to any extent that	5	2	10	Land is under ownership of client. No work to be undertaken on land without prior approval of regulator. All disposal to be notified to the regulator.	5	2	10
Legislative Breach	Not impacted by previous use but see notes above regarding	0	0	0		0	0	0



Environmental Risk Assessment Matrix

SITES & SERVICES



Veolia Environmental Risk Assessment- Aspects and Impacts								
Site Name:	PB Leiner		Assessed by:	Jon Barwick				
Activity/Aspect:	Power/Heat Generation		Date:	22/06/2020				
Category	Impact and Consequence	Risk Level Before Controls			Risk Control Measures in place	Residual Risk Level - After Controls		
		L	C	R		L	C	R
For each activity/aspect consider the consequences for the following Categories	For each impact describe the nature of the impact and the environmental hazard which may develop as a consequence in the absense of control measures.	Likelihood x Consequence = Risk Level			Outline control measures you have on site to reduce risk	Likelihood x Consequence = Risk Level		
Energy Use (Electricity and Fuel (mobile and fixed plant))	Increased use of natural resource (gas, fuel oil, heated water) due to inefficient running of boiler plant due to incorrect operation.	2	3	6	All staff trained and competent in operation of plant. Strict maintenance regime in place. Daily monitoring/recording/reporting of resource consumption. Monthly	2	2	4
Resource Use (water, chemicals)	Increased use of treatment chemicals due to inefficient running of boiler plant due to	2	3	6	All staff trained and competent in operation of plant. Strict maintenance regime in place. Daily	2	2	4
Waste	Process does not generate waste product.	0	0	0		0	0	0

Noise	85dBa when boilers in operation. Boiler alarms	4	3	12	skinned with intermediate mineral wool insulation. Doors kept closed	3	2	6
Vibration	Not applicable	0	0	0		0	0	0
Ground Pollution	Not applicable	0	0	0		0	0	0
Visual	Not applicable	0	0	0		0	0	0
Air (dust, particulates, smoke, fumes, VOCs)	x3 chimney stacks, potential to run on either Natural Gas or potential for odour from	5	4	20	Environmental Permit issued by NRW. Strict maintenance regime in	5	2	10
Odour	combustion plant.	5	2	10	Environmental Permit issued by	0	0	0
Pests & Vermin	Not applicable	0	0	0		0	0	0
Litter	Not applicable	0	0	0		0	0	0
Traffic & Highway (Vehicles and roadways, excluding mobile plant)	Not applicable	0	0	0		0	0	0
Ecology	Continued impact on ecology from consumption of natural	5	2	10	air staff trained and competent in operation of plant. Strict	5	2	10
Water Contamination (Surface (Rivers, soakaway, lakes etc), Foul and groundwater)	Not applicable	0	0	0		0	0	0
Legislative Breach	Not applicable	0	0	0		0	0	0



Environmental Risk Assessment Matrix

SITES & SERVICES



Veolia Environmental Risk Assessment- Aspects and Impacts								
Site Name:	PB Leiner		Assessed by:	Jon Barwick				
Activity/Aspect:	Plant Start Up/Shutdown		Date:	22/06/2020				
Category	Impact and Consequence	Risk Level Before Controls			Risk Control Measures in place	Residual Risk Level - After Controls		
		L	C	R		L	C	R
For each activity/aspect consider the consequences for the following Categories	For each impact describe the nature of the impact and the environmental hazard which may develop as a consequence in the absense of control measures.	Likelihood x Consequence = Risk Level			Outline control measures you have on site to reduce risk	Likelihood x Consequence = Risk Level		
Energy Use (Electricity and Fuel (mobile and fixed plant))	Increased energy usage when starting plant from cold.	3	2	6	Plant only shutdown when absolutely necessary for regulatory inspection. Offline plant kept 'hot banked' in a ready to run state.	2	2	4
Resource Use (water, chemicals)	Increased raw water usage when filling plant from empty.	3	2	6	Plant only shutdown when absolutely necessary for regulatory inspection. Offline plant kept 'hot	2	2	4
Waste	Not applicable	0	0	0		0	0	0

Noise	Not applicable	0	0	0		0	0	0
Vibration	Not applicable	0	0	0		0	0	0
Ground Pollution	Not applicable	0	0	0		0	0	0
Visual	Dark smoke emitted during cold startup of oil fired plant.	2	3	6	Dark smoke is permitted for the first 10 minutes of operation when	1	3	3
Air (dust, particulates, smoke, fumes, VOCs)	Dark smoke emitted during cold startup of oil fired plant.	2	3	6	10 minutes of operation when starting from cold on oil fired	1	3	3
Odour	Dark smoke emitted during cold startup of oil fired plant. Fumes from condensed hydrocarbons when running on natural	3	3	9	Dark smoke is permitted for the first 10 minutes of operation when	1	3	3
Pests & Vermin	Not applicable	0	0	0		0	0	0
Litter	Not applicable	0	0	0		0	0	0
Traffic & Highway (Vehicles and roadways, excluding mobile plant)	Not applicable	0	0	0		0	0	0
Ecology	Dark smoke emitted during cold startup of	1	2	2	Dark smoke is permitted for the first 10 minutes of operation when	1	2	2
Water Contamination (Surface (Rivers, soakaway, lakes etc), Foul and groundwater)	Not applicable	0	0	0		0	0	0
Legislative Breach	Dark smoke emitted during cold startup of oil fired plant.	1	2	2	Dark smoke is permitted for the first 10 minutes of operation when	1	2	2



Environmental Risk Assessment Matrix

SITES & SERVICES



Veolia Environmental Risk Assessment- Aspects and Impacts								
Site Name:	PB Leiner		Assessed by:	Jon Barwick				
Activity/Aspect:	Storage of Chemicals		Date:	22/06/2020				
Category	Impact and Consequence	Risk Level Before Controls			Risk Control Measures in place	Residual Risk Level - After Controls		
		L	C	R		L	C	R
For each activity/aspect consider the consequences for the following Categories	For each impact describe the nature of the impact and the environmental hazard which may develop as a consequence in the absense of control measures.	Likelihood x Consequence = Risk Level			Outline control measures you have on site to reduce risk	Likelihood x Consequence = Risk Level		
Energy Use (Electricity and Fuel (mobile and fixed plant))	Not applicable	0	0	0		0	0	0
Resource Use (water, chemicals)	Not applicable	0	0	0		0	0	0
Waste	Not applicable	0	0	0		0	0	0

Noise	Not applicable	0	0	0		0	0	0
Vibration	Not applicable	0	0	0		0	0	0
Ground Pollution	Pollution event from loss of containment of storage or delivery of chemicals.	3	3	9	Supplier deliveries restricted to a maximum of 500 litres of each chemical. Written procedures in place for deliveries. Emergency procedures in place for dealing with spillages during delivery. Spill kits provided at the point of delivery and all staff trained in its use. All storage tanks are maximum 1,000 litre capacity with integrated bunds. All tanks inspected as part of maintenance programme. Ullage confirmed before handover to delivery driver.	2	3	6
Visual	Not applicable	0	0	0		0	0	0
Air (dust, particulates, smoke, fumes, VOCs)	Not applicable	0	0	0		0	0	0
Odour	Not applicable	0	0	0		0	0	0
Pests & Vermin	Not applicable	0	0	0		0	0	0
Litter	Not applicable	0	0	0		0	0	0
Traffic & Highway (Vehicles and roadways, excluding mobile plant)	Increased road traffic from supplier delivery vehicles.	3	1	3	smaller top-up volumes of other chemicals alongside larger volumes to minimise number of deliveries.	3	1	3
Ecology	Not applicable	0	0	0		0	0	0

Water Contamination (Surface (Rivers, soakaway, lakes etc), Foul and groundwater)	Contamination of water courses from loss of containment of chemical.	3	3	9	Supplier deliveries restricted to a maximum of 500 litres of each chemical. Written procedures in place for deliveries. Emergency procedures in place for dealing with spillages during delivery. Spill kits provided at the point of delivery and all staff trained in its use. All storage tanks are maximum 1,000 litre capacity with integrated bunds. All tanks inspected as part of maintenance programme. Ullage confirmed before handover to delivery driver.	2	3	6
Legislative Breach	Emissions other than in accordance with the	3	3	9	Supplier deliveries restricted to a maximum of 500 litres of each	2	3	6

Owner: Risk & Assurance

Date: 06/20

Ref: ENV/2/004/001



Environmental Risk Assessment Matrix

SITES & SERVICES



Veolia Environmental Risk Assessment- Aspects and Impacts								
Site Name:	PB Leiner		Assessed by:	Jon Barwick				
Activity/Aspect:	Use of Chemicals		Date:	22/06/2020				
Category	Impact and Consequence	Risk Level Before Controls			Risk Control Measures in place	Residual Risk Level - After Controls		
		L	C	R		L	C	R
For each activity/aspect consider the consequences for the following Categories	For each impact describe the nature of the impact and the environmental hazard which may develop as a consequence in the absense of control measures.	Likelihood x Consequence = Risk Level			Outline control measures you have on site to reduce risk	Likelihood x Consequence = Risk Level		
Energy Use (Electricity and Fuel (mobile and fixed plant))	Increased energy usage of steam raising plant if chemicals not used as intended. (scaling of boilers).	2	2	4	All operators trained and competent in safe boilerhouse practice in line with company policy.	1	2	2
Resource Use (water, chemicals)	Not Applicable	0	0	0		0	0	0
Waste	Not Applicable	0	0	0		0	0	0

Noise	Not Applicable	0	0	0		0	0	0
Vibration	Not Applicable	0	0	0		0	0	0
Ground Pollution	Not Applicable	0	0	0		0	0	0
Visual	Not Applicable	0	0	0		0	0	0
Air (dust, particulates, smoke, fumes, VOCs)	Not Applicable	0	0	0		0	0	0
Odour	Not Applicable Potential for odour due to use of Sodium nuisance due to use of Sodium	2	1	2	Storage vessel has screwed/gasketed lid with filtered	2	1	2
Pests & Vermin	Not Applicable	0	0	0		0	0	0
Litter	Not Applicable	0	0	0		0	0	0
Traffic & Highway (Vehicles and roadways, excluding mobile plant)	Not Applicable	0	0	0		0	0	0
Ecology	Not Applicable	0	0	0		0	0	0
Water Contamination (Surface (Rivers, soakaway, lakes etc), Foul and groundwater)	Not Applicable	0	0	0		0	0	0
Legislative Breach	Not Applicable	0	0	0		0	0	0



Environmental Risk Assessment Matrix

SITES & SERVICES

Veolia Environmental Risk Assessment- Aspects and Impacts									
Site Name:	PB Leiner			Assessed by:	Jon Barwick				
Activity/Aspect:	Oil/Fuel Storage			Date:	22/11/2021				
Category	Impact and Consequence	Risk Level Before Controls			Risk Control Measures in place	Residual Risk Level - After Controls			
		L	C	R		L	C	R	
For each activity/aspect consider the consequences for the following Categories	For each impact describe the nature of the impact and the environmental hazard which may develop as a consequence in the absence of control measures.	Likelihood x Consequence = Risk Level			Outline control measures you have on site to reduce risk	Likelihood x Consequence = Risk Level			
Energy Use (Electricity and Fuel (mobile and fixed plant))	Not Applicable.	0	0	0		0	0	0	
Resource Use (water, chemicals)	Not Applicable.	0	0	0		0	0	0	
Waste	disposal of spill kits/maintenance products/contaminated PPE.	5	2	10	Waste Management plan for site and disposal through the client's waste streams.	5	1	5	
Noise	Not Applicable.	0	0	0		0	0	0	
Vibration	Not Applicable.	0	0	0		0	0	0	
Ground Pollution	Pollution incident from loss of containment of storage vessel, pipework (whether fixed or flexible) or delivery method.	3	5	15	Storage facility constructed and maintained in accordance with legislation. Delivery supervised at all times following written procedures. Spill kits available at point of delivery. Daily inspections of flexible lines supplying mobile plant (boiler).	2	5	10	
Visual	Not Applicable.	0	0	0		0	0	0	
Air (dust, particulates, smoke, fumes, VOCs)	Not Applicable.	0	0	0		0	0	0	
Odour	Minor amount of odour from gasoil venting during warm weather.	3	2	6	Tanks painted light grey to minimise effects of solar heating. Storage quantities kept to below 25% of total tank volume. Nearest residential property >250m from site.	2	2	4	
Pests & Vermin	Not Applicable.	0	0	0		0	0	0	
Litter	Not Applicable.	0	0	0		0	0	0	
Tram & highway (Vehicles and roadways, excluding mobile plant)	Increased road traffic from supplier delivery vehicles.	3	1	3	is only an emergency backup fuel source (less than 1 delivery per year).	2	1	2	
Ecology	Impact to environment from loss of containment.	2	5	10	Storage facility constructed and maintained in accordance with legislation. Delivery supervised at all times following written procedures. Spill kits available at point of delivery.	2	5	10	
Water Contamination (Surface (Rivers, soakaway, lakes etc), Foul and groundwater)	Impact to environment from loss of containment.	2	5	10	Storage facility constructed and maintained in accordance with legislation. Delivery supervised at all times following written procedures. Spill kits available at point of delivery. >50m to nearest foul drain. >250m to nearest watercourse. Emergency procedures in place to deal with loss of containment.	2	5	10	
Legislative Breach	Emissions other than in accordance with the environmental permit.	2	5	10	Storage restricted to 25% of capacity of each tank. Written procedures in place for deliveries. Emergency procedures in place for dealing with spillages during delivery. Spill kits provided at the point of delivery and all staff trained in its use. All storage tanks are banded. All tanks inspected as part of maintenance programme. Ullage confirmed before handover to delivery driver.	2	5	10	



Environmental Risk Assessment Matrix

SITES & SERVICES



Veolia Environmental Risk Assessment- Aspects and Impacts										
Site Name:		PB Leiner		Assessed by:		Jon Barwick				
Activity/Aspect:		Temporary Boiler Plant		Date:		22/11/2021				
Category	Impact and Consequence	Risk Level Before Controls			Risk Control Measures in place	Residual Risk Level - After Controls				
		L	C	R		L	C	R		
For each activity/aspect consider the consequences for the following Categories		Likelihood x Consequence = Risk Level			Outline control measures you have on site to reduce risk			Likelihood x Consequence = Risk Level		
Energy Use (Electricity and Fuel (mobile and fixed plant))	Fuel oil consumption of mobile boiler not directly metered, no early detection of excessive consumption.	2	3	6	Daily monitoring of fuel tank stocks to provide estimated fuel usage.	2	3	6		
Resource Use (water, chemicals)	Increased use of resource (water) leading to additional load on the site effluent plant.	2	2	4	Daily monitoring of TDS levels in boiler to maintain specification of 3000 - 3500ppm and prevent	1	2	2		
Waste		0	0	0		0	0	0		
Noise	surrounding properties from operating boiler.	3	1	3	soundproofed enclosure. Doors to be kept closed at all times other	2	1	2		
Vibration	Not Applicable.	0	0	0		0	0	0		
Ground Pollution	containment of storage vessel,	3	5	15	Storage facility constructed and maintained in accordance with	2	5	10		
Visual	Not Applicable.	0	0	0		0	0	0		
Air (dust, particulates, smoke, fumes, VOCs)	byproducts of combustion, potential impact on air quality	5	2	10	screen out emissions and air dispersion modelling for calculation	5	1	5		
Odour	surrounding properties and	3	2	6	nearest residential property 200m from site. Consider result of H1	3	2	6		
Pests & Vermin	Not Applicable.	0	0	0		0	0	0		
Litter	Not Applicable.	0	0	0		0	0	0		
Traffic & Highway (Vehicles and roadways, excluding mobile plant)		0	0	0		0	0	0		
Ecology	loss of containment.	2	5	10	Storage facility constructed and maintained in accordance with	2	5	10		
Water Contamination (Surface (Rivers, soakaway, lakes etc), Foul and groundwater)	Impact to environment from loss of containment.	2	5	10	Storage facility constructed and maintained in accordance with legislation. Delivery supervised at all times following written procedures. Spill kits available at point of	2	5	10		
Legislative Breach	accordance with the	2	5	10	Emergency procedures in place for dealing with a loss of containment of	2	5	10		

Owner: Risk & Assurance

Date: 06/20

Ref: ENV/2/004/001