

GGL 8 – ERA for GAP Group Limited - Tanker Emptying Facility - Dock Road, Tilbury, Thurrock, Essex, RM18 7EQ

As part of an application for an environmental permit Operators must assess the risk to the environment and human health from the activities they seek to permit.

This Environmental Risk Assessment has been undertaken in accordance with the online Environment Agency Guidance for undertaking environmental risk assessments.

Environmental risks relevant to the proposed activities are:

- Emissions to Air;
- Emissions to Water;
- Emissions to Land;
- Odour;
- Noise;
- Litter;
- Pests;
- Vandalism;
- Fire; and
- Incompatible Feedstock.

For each of the above environmental criteria the approach to the assessment has followed the following four stage process:

- Identify the risks;
- Assess the risks (assuming those control measures proposed are in place);
- Choose appropriate further measures to control these (if required); and
- Present the assessment.

Hazard	Receptor	Pathway	Risk Management Techniques	Probability of Exposure	Consequences	Overall Risk (following mitigation)
Point Source\Releases to Air	Atmosphere	Airborne	<ul style="list-style-type: none"> There will be no point source emissions to air from the facility. 	Low: offsite receptor impact	Air Pollution	VERY LOW due to the proposed processes on site
Emissions to water	Groundwater /Geology / Surface Water	Water borne	<ul style="list-style-type: none"> There are no point source emissions to surface waters. The permitted area will be entirely on sealed drainage. There will be no hazardous wastes delivered to site. All drainage will be to the foul sewer. 	Low: all runoff is controlled on site, in line with standard rules permits therefore the probability of exposure is low	Contamination	VERY LOW due to the proposed management techniques and drainage arrangement
Emissions to land	Groundwater / Geology	Spills / Leaks	<ul style="list-style-type: none"> The who operation takes place on sealed drainage with an impermeable surface. There will be no point source emissions to land arising from the proposed facilities. Spill kits will be strategically located around site. These are subject to regular checks in the planned preventative maintenance system. Staff will be trained in how to deal with a spill. Minor spills to be cleaned up immediately using spill kits. Resultant materials to be placed in a container for offsite disposal to an appropriate facility. Any spill waste can be washed directly to the foul sewer. Immediate action to be taken in event of any major spills. Spillage to be cleared immediately and placed in containers for offsite disposal at an appropriate facility. EA to be informed. 	Low: spills / leaks could potentially contaminate the ground / groundwater- Underneath the site.	Contamination	VERY LOW due to the proposed risk management techniques
Noise and vibration Existing permitted activities	Local Residents Closest residents located at 170m to the SE of the site boundary	Airborne / ground	<ul style="list-style-type: none"> Vehicle deliveries will only take place during daytime hours (0700 – 1800 Monday to Saturday). On site, vehicles will be fitted with ‘white noise’ reversing alarms. No activities will take place at night Speed limits in place of 5mph to reduce noise generation on the access roads. Access roads to be kept in good order to prevent potholes that may give rise to noise incidents. A preventative maintenance system is implemented. This will ensure no deterioration of plant or equipment that would give rise to increases in noise generation. All equipment has been designed to ensure that any noise does not present an issue to the employees at the site under the Control of Noise at Work Regulations. All vehicles and equipment will be switched off when not in use. The site operates a complaints investigation procedure which involves efficient mitigation if a complaint is found to be substantiated. All complaints are recorded and reviewed regularly. 	Low – due to the minimal operation of the site (on an ad-hoc basis and only during daylight hours), location of sensitive receptors and all other mitigation measures described.	Nuisance in the form of noise and vibration	VERY LOW due to the management techniques, modern equipment, maintenance and earth bund.

Odour	Local Residents Closest residents located at 170m to the SE of the site boundary	Airborne	<ul style="list-style-type: none"> Waste contracts will be in place to ensure the consistency of the waste is continuous. Addition of sanitising chemical to effluent reduces odour. To prevent excessively odorous waste from arriving on site, the site has stringent waste acceptance procedures waste will be rejected by site should it be deemed malodorous. Inspections will happen daily to inspect the site for odours. Any odorous waste will be prepared for removal off site immediately. Sumps will be regularly cleaned and the site will be emptied in line with good housekeeping measures. There will be no exposure of the effluent to air due to the sealed connection. Spill will be washed down the foul sewer immediately to prevent evaporation. All areas of the permitted area will be regularly cleansed. Any complaints will be actioned in accordance with the site complaints procedure and recorded in the site diary. Solids skip will be sealed and exchanged weekly. A preventative maintenance system is implemented, which covers all plant and equipment. This will ensure no deterioration of plant or equipment that would give rise to increases in odour generation. 	Low: due to the activities being managed by dust management techniques	Nuisance	LOW due to the proposed risk management technique
Dust	Local Residents	Airborne	<ul style="list-style-type: none"> All incoming wastes will be in liquid form preventing dust generations. All surfaces will be cleansed and kept free from dust and mud. 	Low: due extensive dust suppression equipment and methods being employed	Nuisance	VERY LOW due to the proposed risk management techniques
Litter	Local Residents	Airborne & migration	<ul style="list-style-type: none"> All incoming wastes will be in liquid form preventing and not containing litter. Sealed solids skips would prevent the escape of any drying rags. 	Low: due to feedstock not containing litter	Nuisance	VERY LOW
Pest	Local Residents	Airborne and migration	<ul style="list-style-type: none"> A pest control company is contracted to undertake fortnightly inspections of the site. The waste types do not attract pests. Vermis baited traps will be located on the site on a permanent basis. Should pests be identified, reasonable measures will be taken to use commercially available products and services to control pests. 	VERY Low risk of pets on site is possible	Nuisance	VERY LOW due to the proposed risk management techniques
Vandalism	Operator	The site could be subject to intentional vandalism and damage by intruders /	<ul style="list-style-type: none"> The site has a CCTV system with motion sensors across the site. The site entrances are secured by lockable gates. Site is secure and the entire site is bounded fencing. Unauthorised access is prohibited onsite. The site perimeter is inspected daily by operations staff to identify deterioration and damage and the need for repair. Fencing is maintained and repaired to ensure its continued integrity. If damage is sustained, repair will be made within the 	Low: the occurrence of vandalism taking place on site is highly unlikely	Nuisance, damage or fire	VERY LOW due to the proposed risk management techniques

		trespassers who could cause damage or harm to the site or cause fires.	<p>same working day. If this is not possible, suitable measures will be taken to prevent unauthorised access to the site and permanent repairs will be affected as soon as is practicable.</p> <ul style="list-style-type: none"> All visitors to the site are required to register in the visitor's book and sign out again on exit, thereby minimising the risk of unauthorised visitors on the site. 			
Fire	Operator / Residential Properties	Windborne	<ul style="list-style-type: none"> The site will not accept flammable wastes. Wastes processed on the site are not combustible. A planned preventative maintenance system is in operation for all plant and equipment. 	VERY Low: the occurrence of a fire taking place	Fire	VERY LOW Due to lack of combustible waste
Incompatible Feedstock	Operator / Residential Properties	If incorrect waste is accepted on site it could result in adverse emissions/ breaking of equipment	<ul style="list-style-type: none"> All wastes accepted onto site have been subject to 'pre-acceptance' in accordance with the sites Environmental Management System. Waste acceptance procedures are implemented, which control all incoming wastes. Any non-conforming waste will be rejected from site in accordance with the sites Environmental Management System and waste acceptance procedures. 	Low: off-site receptor impacts	Nuisance /Adverse Emissions	VERY LOW due to the proposed risk management techniques
Flooding	Operator	Surface and coastal waters	<ul style="list-style-type: none"> The site sites within Flood zone 1. In the event of localised flooding, the tanks will be pumped to foul sewer to remove the storage of liquid. Tankers will be diverted from the site. 	Low: off-site receptor impacts	Flooding	VERY LOW due to the proposed processes and management techniques as described within the summary EMS

