



EPA Application Form

9.1 - Environmental Management Techniques - Attachment

Organisation Name: *

Sancom Ltd

Application I.D.: *

LA005485



Authorisation Application Form

Amendments to this Application Form Attachment

Version No.	Date	Amendment since previous version	Reason
V.1.0	July 2017	N/A	Online application form attachment
As above	Mar 2018	Identification of required fields	Assist correct completion of attachment

* indicates required field

9 Environmental Management Techniques¹

9.1. Accident Prevention Measures

Measures to prevent accidental emissions and liabilities

Incidents and accidents are unplanned events. Emissions from incidents and (major) accidents usually occur within a relatively short time frame but with greater intensity than under normal operating conditions. Incidents such as fire or fuel spillages can result in liabilities such as contaminated soil and groundwater. Proactive risk management reduces the potential for an incident.

Abnormal operating conditions must be managed without endangering human health and harming the environment, and in particular without risk to water, air, soil, plants or animals, without causing a nuisance through noise or odours, and without adversely affecting the countryside or places of special interest.

The applicant must firstly undertake a risk assessment in accordance with EPA guidance on assessing and costing environmental liabilities. Having identified the key risks, the applicant should populate the following table with the measures to be taken to treat the key risks, e.g., bunding, integrity testing, fire prevention, etc.

The range of measures is dependent on the complexity of the site. Pollution prevention measures may, inter alia, include the following information:

- Conclusions on BAT set out in the EU Reference document on BAT on emissions from storage such as a safety management system; corrosion prevention measures on tanks, etc.
- Details of storage of all raw materials, products and wastes such as segregation, labelling, designation and impervious surface;
- Details of spill or emergency containment measures and structures such as bunds, high level alarms, absorbent materials;
- Details of fire detection and fire-water retention facilities in the event of emergencies or other measures to contain fire-water;
- Details of transport of material within the site, solid, liquid or sludge transported by pipe, vehicle or conveyor; etc.,
- The Agency has published a guidance document on Fire-Water Retention Facilities and on the Storage and transfer of materials.

¹ This part of the form collects information on environmental management at the installation/ facility. It seeks to understand the maturity of the management system in terms of knowledge of abnormal operating conditions, prevention and early detection measures and emergency response procedures. The level of detail required in this part of form relates to the environmental risk posed.



Authorisation Application Form

Describe in the table below existing and/or proposed measures, including emergency procedures, to minimise the impact on the environment of an accidental emission or spillage. (This table should include the measures to be taken under abnormal operating conditions, including start-up, shutdown, leaks, malfunctions, breakdowns and momentary stoppages that will demonstrate that any emission arising will not cause significant environmental pollution)².

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
Development and implementation of an EMS	<p>An Environmental Management System (EMS) details procedures and measures to be undertaken during normal and under abnormal operations at the facility. The EMS will be operated for the facility and will cover the following areas:</p> <ul style="list-style-type: none"> • Environmental Policy • Environmental Compliance Obligations • Environmental Objectives and Targets and Environmental Management Programmes • Waste Acceptance Procedures • Operational Control and Mitigation Measures • Waste Record Keeping and Environmental Reporting • Environmental Monitoring • Emergency Response Procedures • Operational and Environmental Staff Training Programme • Environmental Register summarizing 	Continuous	Daily site checks, emissions abatement and monitoring are undertaken regularly and recorded. The EMS is audited annual and as required to ensure significant environmental pollution does not occur.

² Information relating to the integrity, impermeability and recent testing of pipes, tanks and bund areas should be included.

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	environmental incidents, complaints, non-conformances and corrective/preventative actions		
EMS - Routine Site Inspection Procedure	Under EMS this procedure details measures for routine site checks.	Daily	Daily site checks shall be completed which should identify any potential spillages/ accidental emissions prior to them happening or at an early so stage. This will initiate measures being undertaken to avoid significant environmental pollution.
EMS - Environmental Emergency & Incident Response Procedure and Accident Prevention Procedure	<p>The applicant will identify and plan for potential emergency situations that may occur on-site having regard to hazards and risk present on-site.</p> <p>A procedure will be developed to deal with potential emergency situations and potential accidents that can have an impact on the environment and how the company will deal with them. The procedure covers action in the event of fire and other emergency situations. The procedure will also incorporate spill response training for dealing with hazardous liquid spills that may pose a threat to the environment.</p> <p>Fire drills will be carried out every 6 months. The emergency preparedness and response procedure will be reviewed at a minimum every 12 months and will be revised in light of issues arising after the occurrence of accidents or emergency situations.</p>	Ongoing	Spillages and incidents shall be recorded and managed in accordance with the Environmental Incident procedure ensuring appropriate corrective and preventative actions are undertaken in accordance with BAT.

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	<p>A programme of inspection and preventative maintenance for equipment that poses a fire risk will be established and implemented on an ongoing basis at the facility. Flammable liquids will be stored on-site in designated bunded storage areas away from heat sources.</p> <p>Training in the emergency preparedness and response procedure will be provided to all employees.</p>		
Closure Plan	<p>Once land restoration on-site has taken place, a Closure Plan for the facility will be implemented to ensure the site is returned to a satisfactory state. The Closure Plan will be reviewed prior to its implementation to verify and validate the schedule of works to be carried out. Broadly, the Closure Plan will involve the following steps:</p> <ul style="list-style-type: none"> • Stage 1: Consultation • Stage 2: Removal of all waste on site • Stage 3: Removal of Raw Materials • Stage 4: Removal of all buildings, equipment and vehicles. • Stage 5: Safety of the site • Stage 6: Independent Closure Audit 	<p>Annually, or wherever there are significant changes in processing operations on-site</p>	N/A
Measures for the Protection of Waters	<ul style="list-style-type: none"> • A series of settlement lagoons are situated on-site for the treatment of site surface water run-off containing elevated levels of particles. These settling lagoons will be cleaned and dredged as 	<p>Ongoing/ Quarterly SW Monitoring / Biannual GW Monitoring</p>	<p>Spill Kits checked regularly. Training will be provided to all staff in the respect of pollution prevention, spill management, and protection of waters.</p>

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	<p>necessary.</p> <ul style="list-style-type: none">• Fuel will be stored in fuel tanks situated in an existing bunded, roofed storage area. This area has been designed in accordance with EPA Guidance IPC Guidance Note on Storage and Transfer of Materials for Scheduled Activities, taking into account criteria for bund requirements (e.g. 110% of the capacity of the largest tank or drum within the bunded area; or 25% of the total volume of substance which could be stored within the bunded area, whichever is greater)• Oils and lubricants will be stored within sump pallets in a farm store on-site.• Testing of bund/sump pallet integrity shall be conducted upon commencement of site operations and every three years thereafter in accordance with good practice to verify the water tightness and integrity of bunds on-site. Where bund testing fails a programme of works shall be established by a Chartered Engineer to fix the bund and ensure its water tightness and integrity.• Good hazardous material practice on-site will be observed. Fuel, oil, chemical storage tanks and drums shall		

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	<p>be labelled. Fuel pumps and attachments shall be located within bunded areas. Bunded areas are roofed to prevent rainwater accumulating in bunds.</p> <ul style="list-style-type: none"> • Re-fuelling shall take place in a designated, roofed hardstanding re-fuelling area which drains to a silt trap and an oil interceptor to protect against oil spills. • The wheel wash unit will be served by an integrated silt tank and oil interceptor. The wheel wash unit on-site will be a self-contained unit that utilizes recycled water originating from a GW abstraction point (by way of bowser). The silt tank/oil interceptor will be in place for when excessive rainfall causes overflow from the system. The wheel wash system will be desludged and cleaned ca. every 6 months at a minimum or as needed by an appropriate provider. Waste sludge from the unit will be dispatched to an appropriate authorized destination waste facility. • Emergency Response Procedures will be in place to ensure the prompt and thorough response to any spills of hazardous materials. Spill kits will be 		

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	<p>present on-site for this purpose.</p> <ul style="list-style-type: none">• An interceptor maintenance and inspection programme will be implemented - the interceptors on-site should be inspected every 6 months by suitably qualified persons and should be cleaned and serviced regularly as necessary• Composting curing/maturation will take place on a hard- standing area which drains to an 180,000 litre slatted effluent storage tank to prevent the discharge to the environment of potentially polluting materials associated with this process. This effluent storage tank will be regularly inspected and emptied, cleaned and serviced when necessary.• Waste Acceptance Procedures will be in place to ensure that hazardous waste or putrescible waste are prevented from arriving on-site and, were found to be present on- site, temporarily stored in a bunded waste quarantine area prior to being dispatched off-site to an authorized waste facility within 24 hours.• A surface water drainage inspection, maintenance and monitoring programme should be established and		

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	<p>surface water emanating from the site shall be tested periodically.</p> <p>Please note that further measures for the protection of Ground/Groundwaters and Surface Waters are defined in the Main Body of the EIAR adjoining this application (Sections 8.6 and 9.6 of Attachment 6-1-5)</p>		
Waste Acceptance Procedures	<p>Waste Acceptance Procedures will be in place to ensure that unauthorized/hazardous waste is not accepted or backfilled at the facility. These procedures deal with the following:</p> <ul style="list-style-type: none"> • Prior Approval of Waste Producers/Collectors • Basic Characterisation • Inspection of Compliance upon Arrival On-site • On-site Verification • Waste Inspection/Quarantine Area • Weighing of Waste • Record keeping and Reporting <p>Full details of Waste Acceptance Procedures are provided in the Main Body of the EIAR adjoining this application (Section 5.5.4 of Attachment-6-1-5).</p>	Ongoing	<p>Pre-acceptance classification/ verification</p> <p>Visual verification assessment prior to unloading waste at site.</p> <p>Waste monitoring.</p> <p>Groundwater monitoring</p> <p>Surface water monitoring.</p>
Dust Suppression	<ul style="list-style-type: none"> • Tall trees will be planted along the northern, eastern and south western boundaries of the site in order to minimize dust impacts and minimize the generation of wind-blown dust on-site. Existing vegetation along the 	Daily	<p>Daily site checks on monitoring of site conditions shall be completed to determine the requirement for dust suppression.</p> <p>Dust monitoring shall also be</p>

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	<p>western boundary of the site will also be retained. These trees will remain in place for the duration of the operational phase and will remain a part of the restored site as semi-mature trees.</p> <ul style="list-style-type: none"> • The maintenance of significant separation distances between material handling, storage and processing areas and surrounding sensitive receptors will significantly minimize the potential for any airborne dust associated with site activities to impact upon such receptors. It is proposed to locate dust generating activities such as unloading, sorting, stockpiling, soil screening, concrete crushing and sand and gravel washing at significant distances away from the application site boundary. • The carrying out of operations at deeper than ground level within the fill area and behind earth mounds, quarry faces and natural raised topography will minimize potential dust sensitive receptors. These topographical features as well as landscaping situated along the norther, eastern and southern site perimeter in the form of raised mounds and high treelines will minimize wind impacts on-site and reduce the potential for airborne dust. • All waste material accepted on-site and 		undertaken.

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	<p>all materials being transported off-site will be in sealed or covered vehicles only to prevent dust emissions on local roads and internally on-site.</p> <ul style="list-style-type: none"> • Roadsweeping will be carried out to ensure the access road to the site, internal haul roads and public roads are kept clean from dusty materials. • Water spraying using water bowsers will take place on haul roads and stockpiles to dampen dust and prevent airborne dust generation, particularly during summer months where dry conditions potentially result in increased dust generation. • A wheel wash will be installed on the site access road 100 metres from the site entrance to prevent tracking of dusty material and mud along the proposed site access road and public roads. The first 100 metres of the proposed site access road will be layed with asphalt or concrete. • Long term exposed surfaces e.g. top soil and overburden storage mounds will be vegetated/planted to reduce dust emissions. • A speed limit of 10 kph will be strictly enforced on-site to prevent the turning up of dust associated with traffic movements on-site. <p>Please note that further measures for the</p>		

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	prevention of dust impacts are defined in the Main Body of the EIAR adjoining this application (Section 10.5 of Attachment 6-1-5).		
Dust monitoring	There shall be three dust monitoring locations on site.	Quarterly	Bergerhoff method
Noise reduction	<ul style="list-style-type: none"> • Site operations will be restricted to between 07:00 - 18:00 Monday to Friday and 08:00 - 16:00 Saturday. No activity will take place outside these hours. The facility will operate under an EPA Waste Licence which will prescribe noise limit values to adhere to. • Raised mounds and high treelines will be situated along the northern, eastern and southern site boundaries which will serve to attenuate noise emanating from site operations. • Soil Screening Plant/Sand and Gravel Washing Plant and Concrete Crushing Plant will be situated centrally on-site and away from any sensitive receptors. The above plant and equipment will be situated behind material stockpiles in order to minimize noise emanating from plant operations toward sensitive receptors. The Green waste shredder will be situated to the north of the site, however this equipment, which will be used on hire, will 	Daily	<p>Regular maintenance of vehicles & plant undertaken including visual inspections and maintenance of plant components shall reduce noise levels associated with loose, defective or damaged plant or equipment.</p> <p>Complaints procedure in place and complaints register maintained including procedures for corrective and preventative actions.</p> <p>Noise monitoring shall also be undertaken.</p>

* indicates required field



Authorisation Application Form

Measure *	Surveillance Measures		
	Description *	Frequency of Surveillance *	Method / Standard *
	<p>operate infrequently.</p> <ul style="list-style-type: none"> The concrete crushing plant will be enclosed by cantilever walls to minimize noise emanating from the operation of this plant. A Machinery Maintenance Programme will be in place to prevent noise being emitted from inefficient or faulty plant and equipment. A maintenance log will be developed, maintained and available for inspection on site. <p>Please note that further measures for the prevention of noise impacts are defined in the Main Body of the EIAR adjoining this application (Section 11.6 of Attachment 6-1-5)</p>		
Noise monitoring	There shall be three noise monitoring locations at noise sensitive locations.	Annual	British Standard BS 5228 – 1: 2009 & A1:2014: <i>Code of Practice for Noise and Vibration Control on Construction and Open Sites: Noise.</i> EPA <i>Guidance Note for Noise in Relation to Scheduled Activities</i> , 2nd Edition, 2006.

*add rows to the table as necessary

* indicates required field



Authorisation Application Form

Outline what provisions have been made to ensure an adequate response to emergency situations outside of normal working hours, i.e., during night-time, weekends and holiday periods (attach additional pages to this document if required): *

An Emergency Preparedness and Response Procedure will be developed and will address the management and response to emergency situations outside of normal working hours.

Soil Monitoring Points

Periodic monitoring of soil and groundwater is required having regard to the possibility of soil and groundwater contamination of the site³.

Complete the table below with details of soil monitoring locations and in particular where a baseline report has been/is required in accordance with Section 86B of the EPA Act 1992 as amended.

Is periodic soil monitoring proposed at the installation/facility? (Yes/No): *

Soil Monitoring Point Code	Monitoring Point Grid Ref.	
	Easting ⁴	Northing ⁵

*add rows to the table as necessary

Soil Parameters

- 3 Inherent in the monitoring of soil and groundwater is accepting the possible necessity for remediation of the soil / groundwater. Regular monitoring of soil and groundwater provides an early detection of any contaminations.
- 4 Six Digit GPS Irish National Grid Reference
- 5 Six Digit GPS Irish National Grid Reference

* indicates required field



Authorisation Application Form

Complete the table below with details of soil monitoring parameters (where a baseline report is required in accordance with Section 86B of the EPA Act 1992 as amended). (If different parameters are associated with different monitoring points this should also be identified in the table below.)

Parameter	Unit	Trigger Level	How was the trigger level determined?	Proposed Monitoring Frequency	Sample Method	Analysis Method / Technique

*add rows to the table as necessary

* indicates required field



Authorisation Application Form

Groundwater Monitoring Points

Based on the assessment(s) carried out previously or as part of this licence application, complete the table below with summary details of the groundwater monitoring points.

Is groundwater monitoring proposed at the installation/facility? (Yes/No): *

Yes

Monitoring Point Code	Monitoring Point Grid Ref.	
	Easting ⁶	Northing ⁷
GW1	280137	183999
GW2	280417	184342
GW3	280581	184079

*add rows to the table as necessary

⁶ Six Digit GPS Irish National Grid Reference

⁷ Six Digit GPS Irish National Grid Reference

* indicates required field



Authorisation Application Form

Groundwater Parameters

Complete the table below with summary details of the groundwater parameters. (If different parameters are associated with different monitoring points this should be identified in the table below.)

Parameter	Unit	Trigger Level	How was the trigger level determined?	Proposed Monitoring Frequency	Sample Method	Analysis Method / Technique
Level	M	N/A	N/A	Biannually	Grab Sample	In-situ measurement
pH	pH Units	≥ 6.5 and ≤ 9.5	EPA IGV	Biannually	Grab Sample	In-situ measurement using probe
Conductivity	S/cm	1,875	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	In-situ measurement using probe
Ammonia (as N)	µg/l	175	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Nitrate	mg/l	37.5	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Nitrite	µg/l	375	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Orthophosphate (as P)	mg/l	0.03	EPA IGV	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Total Dissolved Solids	mg/k	1,000	EPA IGV	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Chromium	µg/l	37.5	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Arsenic	µg/l	7.5	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Mercury	µg/l	0.75	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Aluminium	µg/l	150	GTV defined in GW Regulations, as	Biannually	Grab Sample	Analysis by a UKAS

* indicates required field



Authorisation Application Form

Parameter	Unit	Trigger Level	How was the trigger level determined?	Proposed Monitoring Frequency	Sample Method	Analysis Method / Technique
			amended.			accredited Laboratory
Zinc	µg/l	75	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Total Petroleum Hydrocarbons	µg/l	7.5	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Polycyclic Aromatic Hydrocarbon	µg/l	0.075	GTV defined in GW Regulations, as amended.	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Total Coliforms	Counts	0 counts per 100ml	EPA IGV	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory
Faecal Coliforms	Counts	0 counts per 100ml	EPA IGV	Biannually	Grab Sample	Analysis by a UKAS accredited Laboratory

*add rows to the table as necessary

* indicates required field



Authorisation Application Form

Costed Environmental Liabilities Risk Assessment (ELRA)

Indicate if the activity, through pre-application meeting with the Agency or other means, is required to submit a costed ELRA⁸ as part of the licence, or licence review application.

Costed Environmental Liabilities Risk Assessment (ELRA) required to be submitted? (Yes/No): *

If 'Yes', upload a costed Environmental Liabilities Risk Assessment (ELRA), prepared in accordance with the *Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities* (2014) (select Document Type: 'ELRA' in the application form).

Costed **ELRA** document filename:

Indicate your preferred form of financial provision instrument to meet ELRA costings have regard to the Environmental Protection Agency's Guidance on Financial Provision (2015), e.g., Environmental Liability Insurance:

Upload a financial provision proposal have regard to the Environmental Protection Agency's Guidance on Financial Provision (2015) (where required at application /review application stage) (select Document Type: 'Financial Provision Proposal' in the application form)

Financial Provision Proposal filename:

⁸ There is an explicit requirement in EU and Irish law for financial provision for certain activities. The following categories of activities have an ELRA/CRAMP/FP requirement:

1. Landfills (excl. closed L.A. Landfills closed before 16th July 2009)
2. CAT A Extractive Waste Facilities
3. High Risk Contaminated Land Facilities
4. All Haz-Waste Transfer Stations
5. Non-Haz WTS (Accepting >50,000 tons/annum)
6. Incineration (incl. co-incineration of hazardous waste)
7. Upper & Lower Tier Seveso Sites
8. Exceptional circumstances associated with the site, e.g., significant ground/groundwater contamination.

Regard should be had by applicants to relevant Agency guidance on these matters.

* indicates required field



Authorisation Application Form

Closure, Restoration and Aftercare Management Plan (CRAMP)

A restoration/aftercare period will be required where there are on-going environmental liabilities following closure. Applicants are required to describe the existing or proposed measures to avoid any risk of environmental pollution and to return the site to a satisfactory state or the state established in the baseline report where applicable, after the activity or part of the activity ceases operation.

A key measure is the preparation of a Closure, Restoration and Aftercare Management Plan (CRAMP) by the operator, for certain activities⁹. Notwithstanding the requirements of the EC Environmental Objectives (Groundwater) Regulations 2010, S.I. No. 9 of 2010, the closure and restoration/ aftercare target is the site condition at the time of the original application or the baseline report. The applicant shall have regard to the Environmental Protection Agency's Guidance on Assessing and Costing Environmental Liabilities (2014) in the preparation of the CRAMP.

Upload a CRAMP, where applicable (select Document Type: '**Site Closure**' in the application form).

CRAMP filename:

Costed CRAMP

Indicate if the activity, through pre-application meeting with the Agency or other means, is required to have a CRAMP⁹ submitted as part of the licence, or licence review application.

CRAMP required to be submitted at application/licence review application stage? (Yes/No): *

No

⁹ There is an explicit requirement in EU and Irish law for financial provision for certain activities. The applicant shall have regard to the Environmental Protection Agency's Guidance in determining CRAMP requirements and on Financial Provision (2015) in making financial provision to cover any liabilities.

The following categories of activities have an ELRA/CRAMP/FP requirement:

1. Landfills (excl. closed L.A. Landfills closed before 16th July 2009)
2. CAT A Extractive Waste Facilities
3. High Risk Contaminated Land Facilities
4. All Haz-Waste Transfer Stations
5. Non-Haz WTS (Accepting >50,000 tons/annum)
6. Incineration (incl. co-incineration of hazardous waste)
7. Upper & Lower Tier Seveso Sites
8. Exceptional circumstances associated with the site e.g. significant ground/groundwater contamination.

* indicates required field



Authorisation Application Form

Indicate your preferred form of financial provision instrument to meet CRAMP costings (where appropriate), e.g., Secured fund, On-demand performance Bond, Parent Company Guarantee, Charge on Property (have regard to the Environmental Protection Agency's Guidance on Financial Provision (2015) on the Agency's website):

State preferred form of financial provision instrument?

Upload a financial provision proposal (where required) having regard to the Environmental Protection Agency's Guidance on Financial Provision (2015) in making financial provision to cover any liabilities (select Document Type: '**Financial Provision Proposal**' in the application form)

Financial Provision Proposal filename:

Cessation of Activity

Where a CRAMP is not required, describe the measures to be taken on and following the permanent cessation of the activity or part of the activity to avoid any risk of environmental pollution and to return the site of the activity to a satisfactory state. (Input your response in the text box below or attach the information in to this attachment).

Once land restoration on-site has taken place, a Closure Plan for the facility will be implemented. The Closure Plan will be reviewed prior to its implementation to verify and validate the schedule of works to be carried out. Broadly, the Closure Plan will involve the following steps:

- Stage 1: Consultation
- Stage 2: Removal of all waste on site
- Stage 3: Removal of Raw Materials
- Stage 4: Removal of all buildings, equipment and vehicles.
- Stage 5: Safety of the site
- Stage 6: Independent Closure Audit



Authorisation Application Form

These stages are described in further detail in the table below:

Closure Plan

Site Closure Procedure	
Stage 1: Consultation	Engage with Environmental Consultants on the development and implementation of a final Closure Plan in accordance with EPA requirements.
Stage 2: Removal of all waste on site	All wastes onsite at the time of closure will be identified and classified as hazardous or non-hazardous (e.g. Empty drums. Tanks, redundant machinery). These wastes will then be managed in accordance with the Waste Framework Directive hierarchy of waste management i.e. re-used (sold to other companies), recycled, or disposed. All wastes will be removed from the site via an authorised waste contractor. Records of waste volumes/tonnages and their ultimate destination e.g. recycling/disposal will be kept with particular attention paid to hazardous wastes which require specific detailed documentation recording movement and ultimate recovery/disposal.
Stage 3: Removal of Raw Materials	An inventory of raw materials on site to be made redundant by the cessation of activities will be drawn up. All raw materials would be sold to other companies or returned to suppliers if possible. Raw materials will include redundant machinery onsite/ diesel tanks.
Stage 4: Removal of all buildings, equipment and vehicles.	All equipment /vehicles on site will be sold to other companies if possible. The working sheds will be removed or retained on site if they are required for further end uses (e.g. agricultural uses). The ultimate decision to remove sheds/buildings will depend on the proposed future use of the site. All processing equipment will be removed and the site will be tidied to prevent adverse visual impacts.
Stage 5: Safety of the site	The primary objective of the company when activities cease is to leave the site safe and secure with No risk to human health or the environment in the area. Therefore, upon decommissioning, the on-site lagoons will be infilled and the boundary around the quarry will be fenced with appropriate barriers to ensure the safety of the public. Sloped areas will be planted with evergreen bushes. Evergreen bushes will also be planted around the site border to minimize visual impact. Any planting will be of native shrub species to encourage rehabilitation of native fauna & flora.
Stage 6: Independent Closure Audit/Licence Surrender	Engage an Environmental Consultant to carry out an Independent Closure Audit and complete licence surrender in accordance with EPA requirements

Emergency Response Procedure

Do you have an emergency response procedure (ERP)? **(Yes/No) ***

Is the ERP compliant with the EPA guidance? **(Yes/No) ***

* indicates required field



Authorisation Application Form

9.2. Nuisance

Complete the table below in relation to each potential nuisance. Identify if the activity may cause or contribute to the type of nuisance in the area of the installation/facility and, where applicable, identify the techniques used to prevent/minimise the nuisance.

Type of Nuisance	Applicable to the activity? * (Yes/No/ Not Applicable)	Techniques to prevent nuisances *	Where nuisances cannot be prevented, techniques to be used to minimise and reduce nuisances
Odour	Yes	<p>The vast majority of waste brought on-site will be inert construction and demolition waste. Such waste is unreactive both biologically and chemically, and will not cause any odour. Biodegradable garden waste will be accepted on-site for composting. This type of waste is not malodorous in nature. This waste will be transferred without delay to a bunded composting area on-site for curing/maturation.</p> <p>Strictly no food waste or slurries will be accepted on-site for composting purposes. Waste Acceptance Procedures are in place to prevent the acceptance and processing of any malodorous, waste such as food waste or slurries. In the unlikely event that any putrescible waste is identified among imported materials, it shall be immediately transferred to the waste quarantine area pending removal off-site to a licenced waste disposal or recovery facility.</p> <p>Given that garden waste is being composted it is not envisaged that the composting windrows will be particularly odorous. Proper windrow aeration and moisture application will take place to prevent anaerobic conditions or the excessive generation of leachate which may give rise to odours. The nearest sensitive receptor is 120</p>	

* indicates required field

Authorisation Application Form

Type of Nuisance	Applicable to the activity? * (Yes/No/ Not Applicable)	Techniques to prevent nuisances *	Where nuisances cannot be prevented, techniques to be used to minimise and reduce nuisances
		<p>metres north east of the site boundary so it is not expected there will be any noticeable odour impact on sensitive receptors.</p> <p>Daily olfactory inspections will take place to ensure odours emanating from windrows are negligible. Odour incidents or complaints will be recorded and corrective/preventative actions will be planned and implemented, where necessary, although it is considered unlikely that incidents/complaints would occur.</p> <p>Malodourous waste identified upon arrival to the site or on-site will be transferred to the waste quarantine area before being dispatched to an authorized waste facility within 24 hours.</p>	
Fire Control	Yes	<p>A procedure will be developed to deal with potential emergency situations and potential accidents that can have an impact on the environment and how the company will deal with them. The procedure covers action in the event of fire and other emergency situations.</p> <p>Fire drills will be carried out every 6 months. The emergency preparedness and response procedure will be reviewed at a minimum every 12 months and will be revised in light of issues arising after the occurrence of accidents or emergency situations.</p> <p>A programme of inspection and preventative maintenance</p>	

* indicates required field



Authorisation Application Form

Type of Nuisance	Applicable to the activity? * (Yes/No/ Not Applicable)	Techniques to prevent nuisances *	Where nuisances cannot be prevented, techniques to be used to minimise and reduce nuisances
		<p>for equipment that poses a fire risk will be established and implemented on an ongoing basis at the facility. Flammable liquids will be stored on-site in designated bunded storage areas away from heat sources.</p> <p>Training in the emergency preparedness and response procedure will be provided to all employees.</p>	
Dust	Yes	<ul style="list-style-type: none"> • Tall trees will be planted along the northern, eastern and south western boundaries of the site in order to minimize dust impacts and minimize the generation of wind-blown dust on-site. Existing vegetation along the western boundary of the site will also be retained. These trees will remain in place for the duration of the operational phase and will remain a part of the restored site as semi-mature trees. • The maintenance of significant separation distances between material handling, storage and processing areas and surrounding sensitive receptors will significantly minimize the potential for any airborne dust associated with site activities to impact upon such receptors. It is proposed to locate dust generating activities such as unloading, sorting, stockpiling, soil screening, concrete crushing and sand and gravel washing at significant distances away from the application site boundary. • The carrying out of operations at deeper than ground level within the fill area and behind earth mounds, quarry faces and natural raised topography will 	

* indicates required field



Authorisation Application Form

Type of Nuisance	Applicable to the activity? * (Yes/No/ Not Applicable)	Techniques to prevent nuisances *	Where nuisances cannot be prevented, techniques to be used to minimise and reduce nuisances
		<p>minimize potential dust sensitive receptors. These topographical features as well as landscaping situated along the norther, eastern and southern site perimeter in the form of raised mounds and high treelines will minimize wind impacts on-site and reduce the potential for airborne dust.</p> <ul style="list-style-type: none"> • All waste material accepted on-site and all materials being transported off-site will be in sealed or covered vehicles only to prevent dust emissions on local roads and internally on-site. • Roadsweeping will be carried out to ensure the access road to the site, internal haul roads and public roads are kept clean from dusty materials. • Water spraying using water bowsers will take place on haul roads and stockpiles to dampen dust and prevent airborne dust generation, particularly during summer months where dry conditions potentially result in increased dust generation. • A wheel wash will be installed on the site access road 100 metres from the site entrance to prevent tracking of dusty material and mud along the proposed site access road and public roads. The first 100 metres of the proposed site access road will be layed with asphalt or concrete. • Long term exposed surfaces e.g. topsoil and overburden storage mounds will be vegetated/planted to reduce dust emissions. • A speed limit of 10 kph will be strictly enforced on-site to prevent the turning up of dust associated with 	

* indicates required field



Authorisation Application Form

Type of Nuisance	Applicable to the activity? * (Yes/No/Not Applicable)	Techniques to prevent nuisances *	Where nuisances cannot be prevented, techniques to be used to minimise and reduce nuisances
		<p align="center">traffic movements on-site.</p> <p>Please note that further measures for the prevention of dust impacts are defined in the Main Body of the EIAR adjoining this application (Section 10.5 of Attachment 6-1-5).</p>	
Litter	Yes	<p>Given the nature of waste materials being brought on-site, it is considered that the potential for wind-blown litter is minimal. Waste materials will be brought on-site in enclosed or covered HGV's. Waste handling, storage and processing will take place at good setback distances from the site boundary.</p> <p>Any litter (i.e. plastic or paper) which may arrive on site within consignments will be removed on reception, or when identified during handling and sorting, and will be sent to a skip container in the waste quarantine area and thereafter will be sent to an authorized waste facility for disposal/treatment.</p> <p>Perimeter landscaping will be in place to minimize the impact of wind on-site and the potential for wind-blown litter and debris. In addition, processes will take place in sheltered locations either deeper than ground level or behind earth mounds or stockpiles. Good housekeeping in the form of daily site and access road inspections and sweeping will take place to minimize the potential for strewn litter and debris.</p>	
Birds	No		
Mud	Yes	<p>A wheel wash facility is proposed to be situated at the site access road 100 metres in from the entrance junction to prevent mud generation caused by vehicle tyres collecting</p>	

* indicates required field



Authorisation Application Form

Type of Nuisance	Applicable to the activity? * (Yes/No/Not Applicable)	Techniques to prevent nuisances *	Where nuisances cannot be prevented, techniques to be used to minimise and reduce nuisances
		and tracking mud. Waste tipping areas will be kept clean and free of loose waste materials to prevent materials forming into mud and being picked up by vehicle tyres. Access roads and internal haul routes will be inspected daily and swept as necessary to prevent the build-up of matter and mud. These routes will be re- gravelled where there is evidence of deterioration or the excessive building up of mud or moisture.	
Flies	No		
Vermin	Yes	<p>Predominantly, waste brought on-site will be inert and inorganic and will not attract vermin. Garden waste will be brought on-site for composting. Although composting windrows can be attractive to rats, windrows comprised of materials derived from garden waste are not particularly attractive due to the lack of food. Strictly no putrescible (food/kitchen) waste will be accepted on-site. In the unlikely event that any putrescible waste is identified among imported materials, it shall be immediately transferred to the waste quarantine area pending removal off-site to a licenced waste disposal or recovery facility.</p> <p>Composting windrows will be regularly turned and moistened during processing which will deter vermin from habituating within the windrows for warmth. Pest control specialists and bait boxing will be employed on-site and in particular around the composting area to prevent vermin. Strict cleanliness practices will be adhered to and the site will be regularly inspected for the presence of vermin. The presence of vermin on-site will be recorded and where necessary corrective/preventative action implemented to</p>	

* indicates required field



Authorisation Application Form

Type of Nuisance	Applicable to the activity? * (Yes/No/Not Applicable)	Techniques to prevent nuisances *	Where nuisances cannot be prevented, techniques to be used to minimise and reduce nuisances
		eradicate such vermin.	
Noise	Yes	<ul style="list-style-type: none"> • Site operations will be restricted to between 07:00 - 18:00 Monday to Friday and 08:00 - 16:00 Saturday. No activity will take place outside these hours. The facility will operate under an EPA Waste Licence which will prescribe noise limit values to adhere to. • Raised mounds and high treelines will be situated along the northern, eastern and southern site boundaries which will serve to attenuate noise emanating from site operations. • Soil Screening Plant/Sand and Gravel Washing Plant and Concrete Crushing Plant will be situated centrally on-site and away from any sensitive receptors. The above plant and equipment will be situated behind material stockpiles in order to minimize noise emanating from plant operations toward sensitive receptors. The Green waste shredder will be situated to the north of the site, however this equipment, which will be used on hire, will operate infrequently. • The concrete crushing plant will be enclosed by cantilever walls to minimize noise emanating from the operation of this plant. • A Machinery Maintenance Programme will be in place to prevent noise being emitted from inefficient or faulty plant and equipment. A maintenance log will be developed, maintained and available for inspection on site. 	

* indicates required field



Authorisation Application Form

Type of Nuisance	Applicable to the activity? * (Yes/No/ Not Applicable)	Techniques to prevent nuisances *	Where nuisances cannot be prevented, techniques to be used to minimise and reduce nuisances
		Please note that further measures for the prevention of noise impacts are defined in the Main Body of the EIAR adjoining this application (Section 11.6 of Attachment 6-1-5)	

If 'Other' is selected define the other nuisance(s):

Note: Odour must also be addressed in the fugitive emissions section of the '7.4 Emissions to Atmosphere – Main and Fugitive' template, where applicable.

* indicates required field



Authorisation Application Form

9.3. Environmental Management System (EMS)

Do you have an environmental management system? (Yes/No) *

Yes

If 'Yes', is the environmental management system accredited? (Yes/No) *

No

State the date accreditation was achieved or is expected to be achieved, where applicable:

State the standard of accreditation achieved:

Energy Efficiency

Outline the measures taken to ensure that energy is used efficiently having regard to the relevant decision on BAT conclusions and/or BAT guidance and where appropriate, an energy audit with reference to the EPA Guidance document on Energy Audit should be carried out. *

All plant and equipment procured by the applicant/operator will comply with relevant energy legislation. A Green Procurement Policy shall be established to ensure energy efficiency is considered when procuring new plant or equipment.

Has an energy audit been carried out? (Yes/No) *

No

Do you have an energy efficiency management system? (Yes/No) *

No

If 'Yes', is the energy efficiency management system accredited? (Yes/No)

N/A

State the date accreditation was achieved or is expected to be achieved, where applicable:

N/A

State the standard of accreditation achieved:

N/A

* indicates required field



Authorisation Application Form

9.4. Hours of Operation

Provide details of the hours of operation for the installation/facility * (hours and days per week, etc.), including:

(a) Proposed hours of operation.

The site operating hours will be between 07:00 - 18:00 Monday to Friday and 08:00 - 16:00 Saturday. No activity will take place outside these hours.

(b) Proposed hours of construction and development works and timeframes.

Site Preparation Works will take during the hours defined above. The timeframe for having Site Preparation Works completed is 9 months.

(c) For waste activities, the proposed hours of waste acceptance.

Waste will be accepted on-site during the operating hours defined above.

(d) Any other relevant hours of operation expected (e.g., waste handling, etc.).

Not applicable .



Authorisation Application Form

9.5. Review of a Licence

Where the Office of Environmental Enforcement (OEE) has agreed any variations or adjustments to the conditions or schedules of the existing licence, the licensee must provide details of these agreed variations and adjustments to the existing licence conditions in the table that follows.

An updated, scaled drawing of the site layout (no larger than A3) providing visual information on such adjustments or variations where appropriate should be uploaded in the **site tab** – 'site plan(s)' upload.

In the case of once-off assessments/reports required under conditions/schedules of the existing licence the licensee must provide details of those assessments/reports that have been completed and agreed with the OEE or as otherwise agreed, in the table below.

Condition/ Schedule No.	Existing Condition	OEE Agreement Reference	Description

*add rows to the table as necessary

9.6 Environmental Management Techniques – Upload Files

State the number of 'upload files' referred to and named in this attachment document? *

* indicates required field