

Environmental Permit

Environment Protection Act (CAP. 549)

Permit number

EP 0098/20

Approved Documents:

EP 0098/20/DOC01

The Environment and Resources Authority (hereinafter the Authority; the Competent Authority or ERA) in exercise of its powers under the Environment Protection Act (CAP. 549) and applicable subsidiary legislation referred to in this permit, hereby authorises:

Bilven Limited (hereinafter “the Permit Holder”)

Company Registration Number: **C 68547**

Of / Whose Registered Office is at:

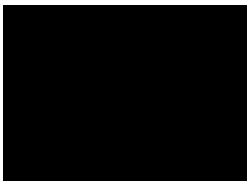
**Xagħra Quarry,
Wied Inċita,
Rabat Road,
Attard**

To operate a hardstone quarry at:

Quarries HM03 and HM12

**Wied Inċita,
Rabat Road,
Attard**

This permit is valid for **four (4) years** from the permit granted date below.

Signed	Date
 Perit Vincent Cassar Chairperson	Permit Granted: 28.09.2023

Authorised to sign on behalf of the Competent Authority

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Conditions

1 General

The Permitted Installation shall, subject to the conditions of this Permit, be managed, controlled and operated as described in the Application, or as otherwise previously agreed in writing by the Authority.

1.1 Permitted Activities

1.1.1 The Permit Holder is authorised to carry out the activities and the associated activities specified in Table 1.1.1.

Operation	Description of specified operation	Limits of specified operation
Deposit, recycling and stockpiling of inert waste.	Recycling and crushing of inert material.	From receipt of excavation waste to dispatch of crushed material.
Backfilling of inert material	Backfilling of excavation void with clean inert waste for restoration purposes.	From receipt of permitted inert waste to backfilling of excavation void.
Extraction of resource (rock material)	Excavation and extraction of rock.	From excavation and extraction of rock material to dispatch of finished product.
Concrete batching plant	Production of concrete.	From receipt of raw materials to final production and dispatch of finished product.
Brick and concrete forms	Production of bricks and concrete forms.	From receipt of raw materials to final production and dispatch of finished product.
Ancillary operation related to the storage of chemical products	Storage of chemicals for asphalt, bitumen and concrete production.	From receipt of chemicals to final production and dispatch of finished product.
Ancillary operation related to vehicle maintenance	Storage of vehicle parts, maintenance and repairs of vehicles and other related machinery.	From maintenance/repair operations to appropriate recovery/disposal of any waste generated on site.
Ancillary operation related to the storage of fuel and oil	Storage of fuel and oil by means of an onsite bowser	From receipt of fuel and oil to delivery of energy to local machinery

Associated operation of waste management	Handling and storage of waste generated from installation prior to dispatch offsite.	From generation of waste to dispatch for disposal or recovery (including recycling) offsite by a registered waste carrier to an authorised facility locally or abroad.
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1.2 Site

- 1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, as shown on the Site Map in Schedule 3 to this Permit.
- 1.2.2 The Authority may also request implementation of further dust abatement measures as deemed necessary.
- 1.2.3 Whenever there is a conflict between the conditions of this Permit and approved documents, the conditions of the Permit shall prevail.

1.3 General Conditions

- 1.3.1 This permit is granted saving third party rights and without prejudice to any other legislation or regulations or authorisations required from any other competent authorities or site owners in particular the approved plans/conditions of the Development Permit as per Documents 78A, 78B, and 82A of PA/9387/18.
- 1.3.2 In these conditions and their interpretation, all terms shall have the same meaning as that assigned to them in CAP 549 Environment Protection Act and its subsidiary legislation.
- 1.3.3 The Permit Holder has the sole responsibility to ascertain compliance with legal obligations, permit conditions and to undertake activities on and off site in line with good environmental practices at all times.
- 1.3.4 The Authority may carry out pre-set or unannounced compliance or monitoring compliance checks that vary in frequency according to the site's compliance with the permit conditions and safeguarding of natural assets. Any checks or audits carried out by the Authority may be made at the Permit Holder's financial expense at a rate and arrangement communicated by ERA.
- 1.3.5 The Authority's representatives may inspect and photograph any part of the site and ask for any closed or locked areas to be opened and may demand to be provided with any proof, documentation, plans, receipts or any other records.
- 1.3.6 The Permit Holder shall maintain a register of third-party complaints. The register shall record the details of the complainant(s) if available, the date, source and nature of the complaint and the corrective action undertaken, where such action proves necessary.
- 1.3.7 The Authority may add, amend, delete or substitute any of the conditions of this permit after notifying the Permit Holder of its intention and after describing the

changes to the Permit Holder. This, without prejudice to any prevailing circumstances that would preclude the Authority from following such a procedure.

- 1.3.8 The Permitted Installation shall be managed, controlled, supervised and operated by staff that are aware of the importance of environmental protection and suitably trained on the requirements of this Permit. All staff shall be provided with adequate training and written operating instructions to enable them to effectively carry out their duties.
- 1.3.9 Upon the joint application of a Permit Holder and a proposed transferee, the Permit Holder may request to transfer an environment permit. The permit shall not be transferred from the Permit Holder without prior approval from the Authority. Upon the Authority's decision to transfer the permit to the transferee, all rights, obligations, liabilities shall subsist onto the transferee.
- 1.3.10 The Authority may suspend or revoke this environmental permit in line with the provisions of CAP 549.
- 1.3.11 The permit is valid for a period of **four (4) years** from the date of the granting. The Permit Holder may apply for a renewal to this permit expressing his/her intention at least **six (6) months** prior to the expiry of the permit. The permit will be considered renewed once the official renewed permit is issued by the Authority.
- 1.3.12 This permit is issued against a bank guarantee of **€12,100** which shall be renewed annually. This guarantee will have to be maintained throughout the validity of the permit. Following renewal and/or variations to this permit, the Authority may require amendments to the Bank Guarantee.
- 1.3.13 The Authority may withdraw the full amount of the bank guarantee if any of the permit conditions are not complied with or the Permit Holder fails to comply with any instruction given or any other legal obligation under the Act or its subsidiary legislation. Withdrawal of the bank guarantee does not preclude the Authority from taking any other action to ensure that the conditions of this permit are complied with. Should the Authority withdraw the Bank Guarantee either in part or in full during the validity of the permit, the Permit Holder shall ensure that this is replenished without undue delay, in any case not exceeding 2 months from the date of withdrawal. The Bank Guarantee shall only be released upon confirmation of compliance with the permit conditions by the Authority. In cases where the bank guarantee does not cover the expenses incurred by the Authority to take remedial action on the Permit Holder's behalf, the Permit Holder is to financially reimburse the Authority of all the expenses incurred within.
- 1.3.14 A copy of this permit shall be available at all times at the site office, including any Variation Notices or amendments to it.
- 1.3.15 The Authority may request additional monitoring and/or review of operational practices and commission any audits/reports as deemed necessary to address any circumstances that may affect the quality of the surrounding environment, at the expense of the Permit Holder.
- 1.3.16 Without prejudice to condition 1.3.15, the Authority may take any action deemed necessary including but not limited to the suspension of any operation until investigations are concluded.

- 1.3.17 Any incident including accidental release of liquid, solid or gaseous materials from the site that could be regarded as causing environmental damage, or as posing a threat of environmental damage, shall be reported not later than within 24 hours to ERA.

1.4 Operational Changes

- 1.4.1 The Permit Holder may apply for a variation in permit and shall seek the Authority's written agreement prior to any operational changes, by sending to the Authority:

- a) Written notice of the details of the proposed change, including an assessment of its possible effects (including changes in emissions and waste production) on the environment from the Permitted Installation;
- b) Any relevant supporting information (e.g. chemical/fuel consumption, technical details, changes in the type/use of substances/mixtures, etc.);
- c) Assessments and drawings; and
- d) The proposed implementation date.

Any such change shall only be implemented following the issue of a variation of the permit by the Authority.

- 1.4.2 The Permit Holder shall notify the following matters to the Authority in writing at least 10 working days prior to their occurrence:

- a) Any change in the Permit Holder's trading name, registered name or registered office address;
- b) Any change to particulars of the Permit Holder's corporate identity.

- 1.4.3 The Permit Holder shall notify the Authority, without undue delay, of any planned change to the permitted combustion plants.

1.5 Improvement Programme

- 1.5.1 The Permit Holder shall complete the improvements specified in Table 1.5.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the Authority's Compliance and Enforcement Directorate within 10 working days (of the completion of such requirement).

Reference	Requirement	Deadline
1.	Implementation of the dust mitigation measures as outlined in Approved Document EP 0098/20/DOC01 , including but not limited to the relocation of exposed stockpiles (in the upper area) to a more sheltered area within a year.	As outlined in the Approved Document EP 0098/20/DOC01
2.	The fuel tank in the entrance area needs to be: <ol style="list-style-type: none"> a. Appropriately bunded and sheltered, or b. Moved to a sheltered area and 	Within six (6) months of granting of the permit.

	appropriately banded, or c. Eliminated.	
3.	The four IBC tanks containing chemicals in the batching plant are to be adequately banded and certified by an independent engineer.	Within six (6) months of granting of the permit.
4.	<p>i. Submission of a proposal including timeframes for implementation from ERA’s approval, such that the water overflow generated from the washing of the vehicles collected in a sump is recirculated for reuse and the sump capacity is to be congruent with the amounts of water, to prevent/reduce overflow of such water.</p> <p>ii. Implementation of proposal</p>	<p>i. Within six (6) months of granting of the permit, for ERA’s approval.</p> <p>ii. As per approved timeframes</p>

2. Site Infrastructure and Equipment

2.1 General Site Infrastructure

- 2.1.1 The site perimeter shall be clearly delineated either by a chain link fence, bollards or low walls. During non-operating hours the site shall be securely closed and totally inaccessible to third parties, both by vehicle and on foot. The site must be well secured at all times.
- 2.1.2 The designated and labelled quarantine area shall be kept within the site boundary to temporarily hold unpermitted wastes that may inadvertently enter the site. A non-leaking skip or similar contained structure shall be utilised for the temporary storage of unpermitted waste. The quantity of waste in the quarantine area shall not exceed the capacity of said area at any given time.
- 2.1.3 The entrance/exit area to be Permitted Site shall be constructed by compacted gravel and shall be regularly cleaned so as to prevent vehicles from transporting dust and waste onto public roads.
- 2.1.4 The vehicular access paths and the areas mostly frequented by staff and visitors within the site are to be regularly wetted down or otherwise mitigated to prevent dust and waste dispersion/transportation onto public roads.
- 2.1.5 A vehicle wheel wash/wheel dip (or similar mitigation measures) shall be maintained in line with **EP 0098/20/DOC01** before the main exit of the Permitted Site so as to prevent vehicles from transporting dust and waste onto public roads.

2.2 Storage Areas and Refuelling

- 2.2.1 All storage of materials, fuels, oils and waste shall take place only in areas with impervious ground and where thorough clean up and site reinstatement can be readily undertaken.
- 2.2.2 Containers for bulk storage of chemicals shall be properly designed, located, labelled, banded and maintained so as to prevent accidental spillage. Incompatible chemicals shall not be stored within the same bund. Storage areas shall have impervious ground and shall be banded or otherwise designed so that surface and ground waters cannot be contaminated by spillages.
- 2.2.3 All bulk liquid oil, fuel and chemical storage shall be provided with an adequately designed bund system with an impermeable base and walls, as per relevant REWS standards. The capacity of the bund shall be a minimum of 110% of the largest tank within the bund or 25% of the total volume of all the tanks within the bund, whichever is greater. Incompatible chemicals shall not be stored within the same bund. All filling and off-take points shall be located within the bund. The Permit Holder shall also ensure and take all precautions to avoid any leakages or spills from liquid or solid material.
- 2.2.4 Bulk storage tanks for fuels, oils and chemicals, and associated bunding and pipe work shall be visually inspected at least twice a month. Such records shall be included in the site operational log.
- 2.2.5 All small storages of oils and lubricants used for everyday quarry operations shall be equipped with a containment system such as drip trays in order to prevent leakages or spillages.
- 2.2.6 The storage of tyres shall be segregated from other wastes and the structure within which the tyres are stored is to be adequately equipped with fire hydrants that are regularly maintained and serviced by the supplier. At any time, the storage of used tyres shall not exceed a skipload.
- 2.2.7 Any storage of fuel oils or lubricating oils on site must be kept in leak proof containers and stored in a banded area that is capable of holding 110% of the total volume of the stored material. The Permit Holder shall also ensure and take all precautions in his competence to avoid any leakages or spills from liquid or solid material that can cause environmental harm. Filling and off-take points shall be located within the bund, which shall not have any drainage connections for rainwater.
- 2.2.8 The storage of other liquids in drums or containers, other than fuel oils, lubricating oils or water, or approved dust flocculants, is strictly prohibited on any part of the site.
- 2.2.9 The storage of waste oils in large quantities is also prohibited on site. This waste is to be disposed of at a licensed facility that is authorised to accept this type of waste and is to be transported in robust, leak-proof drums via a registered waste carrier in possession of a valid Class D3 permit. Receipts of such transfers and documentation from the licensed facility to which this waste has been transferred are to be kept and provided whenever requested by the Authority's representatives. Waste oils shall not exceed more than two (2) 45-gallon drums in volume.

- 2.2.10 All fuel storage bunds shall be certified for integrity within 3 months from the granting of the permit or 3 months from its implementation as per Improvement Programme item in Table 1.5.1.
- 2.2.11 If the Permit Holder makes use of a flexible pipe to deliver the fuel, the Permit Holder shall ensure that the following conditions are observed:
- a. The delivery end of the pipe is fitted with a pump or valve that closes automatically when not in use
 - b. The valve or pump must be lockable and must be kept so when not in use.
 - c. The end of the pipe that leaves the tanker must be fitted with a lockable valve that must be shut when it is not in use.
- 2.2.12 Fuel delivery by road tanker shall be supervised at all times by personnel who are fully conversant with fuel filling procedures as relevant to their duties. No transferring of fuel shall occur outside the designated refuelling area.
- 2.2.13 Road tanker fuel storage compartments shall not be washed out or serviced on site.
- 2.2.14 On-site refuelling of mobile equipment shall be carried out at a dedicated designated impermeable and contained area so as to ensure that any spills are easily cleaned up. Spill kits shall be readily available at this area.

2.3 Equipment on Site

- 2.3.1 The weighbridge shall be maintained, calibrated and certified by a warranted engineer or by the equipment's manufacturing company once every year. This certificate is to be submitted to the Authority as part of the Annual Environment Report (Schedule 2), as per condition 4.4.1.
- 2.3.2 All plant equipment and technical means used in operating the Permitted Installation shall be maintained in a good operating condition and without causing polluting emissions, leaks and spillages. Maintenance records of the above shall be kept by the Permit Holder and shall be made available to officers of the Authority for review upon request.
- 2.3.3 All equipment, including the concrete batching plant and the brick and concrete forms plant, are to be installed and operated in accordance with the manufacturer recommendations, so as to minimise the release of dust to air, land and water.
- 2.3.4 During all operating hours of the facility there shall be at least one fully functional wheel shovel per tipping face on site.

2.4 Maintenance Areas

- 2.4.1 Vehicle and equipment maintenance is to be carried out on an impervious surface where a thorough clean-up of fuels, oils or any other hazardous materials can be readily undertaken. Any activities that involve grit, sand or glass blasting are strictly prohibited.

- 2.4.2 The cleaning of vehicles, equipment and mechanical body parts shall be carried out on an impervious surface.
- 2.4.3 It is prohibited to store mechanical parts containing oil and waste mechanical parts or any other waste on site, unless this is done in a closed structure (not open to the elements) that has an impermeable ground capable of containing any accidental spills of fuels, oils or any other hazardous materials. This storage cannot exceed a period of more than three (3) months or surpass one truck load in volume. Any activities that involve grit, sand or glass blasting are strictly prohibited.
- 2.4.4 Mechanical parts or spares not containing oils can be stored outside subject that such parts are certified by an engineer that they do not contain any oils or fluids. Such parts shall not be moved without prior approval from the Authority

3. Operational Procedures

3.1 Waste Acceptance

- 3.1.1 This site is authorised to accept inert waste that originates from excavation activities, the construction industry and from the demolition of constructed structures as per Table 3.1.1 below and Schedule 1. **Tarmac or bitumen products originating from road works, sludges or dredged material are prohibited from entry.**

Table 3.1.1

Waste Type	Description of Waste
Excavation Waste	Waste that originates from rock excavation. This waste shall be free of soil, trees, shrubs or any other agricultural content
Demolition Waste	Waste that originates from the demolition of structures. This waste is to consist of stone slabs and concrete planks or concrete beams only and shall not contain any other waste type such as aluminium, wood or iron apertures, pieces of clothing, furniture, household goods, mattresses or any other waste. This waste is to be separated at source and not at the quarry.
Extractive Waste	Inert waste generated from the extraction of mineral.

- 3.1.2 Any mixed waste inadvertently entering the site is to be separated from inert waste prior to being recycled/backfilled on site.
- 3.1.3 The Permit Holder is to apply the precautionary principle during the waste acceptance phase and refuse the entry of any truck loads whose content is not specified or in cases where there is uncertainty of what the truck consists of.

- 3.1.4 Trucks using this site as a recycling/backfilling facility are to enter the site only from the main gate and staff on site are to visually inspect every truck load that enters the site. The site entrance/weighbridge operator is responsible to accept or refuse the entry of trucks carrying waste into the site.
- 3.1.5 The loaded trucks are to proceed to the recycling/backfilling area upon clearance from the site entrance/weighbridge operator and start unloading the waste in the locations indicated by the staff. Staff on site are to ascertain that the load does not contain hazardous waste.
- 3.1.6 The vehicles are to unload the waste at the recycling/backfilling area and exit the site after the staff on site indicates to the driver that the vehicle can proceed to exit the site.
- 3.1.7 Staff on site are to refuse the entry and disposal of any truckloads of waste that is known to have originated from contaminated sites, decommissioned petrol stations, old fuel depots, fuel storage areas etc. During such occurrences the measures listed in conditions 3.1.8 to 3.1.9 are to be followed accordingly. Such measures are also to be taken when staff on site observes oil or diesel stained debris amongst the rubble or detect a fuel smell emanating from the tipped waste at the waste separation area.
- 3.1.8 In the event that a truck load contains heavily mixed waste or waste that cannot be recycled/backfilled, the staff on site are to re-load the unacceptable waste on the truck that has delivered the unacceptable load and direct it to a licensed facility authorised to accept such material. Staff on site are to take note of the truck registration plates, date, time and load content.
- 3.1.9 In the event that staff on site are not able to reload the unaccepted waste load back on the truck that delivered the unacceptable waste, the waste carrier permit number and registration plate of the truck shall be noted. The load of unacceptable waste is to be temporarily stored in the quarantine area and then transferred at the Permit Holder's expense to a licensed facility that is authorised to take such waste. Staff on site are to keep note of when unaccepted waste loads temporarily stored in the quarantine area are transferred to other licensed facilities in terms of time, date and truck registration numbers that affected the transfer of such waste and the receipts of the authorised facility where the waste was disposed of.
- 3.1.10 The Permit Holder may refuse the entry of vehicles that repeatedly deliver unacceptable waste loads on site after notifying the Authority of his/her intention to take such action.
- 3.1.11 The mechanical wheel shovel operator shall spread the tipped inert waste and sort the material, in terms of inert and non-inert.
- 3.1.12 The separated non-inert waste shall not exceed the capacity of the approved quarantine area.
- 3.1.13 Inert waste shall be backfilled in three metre heaps and properly compacted. Backfilling shall occur in a phased approach from within the quarry void. No access to areas surrounding the quarry rim and dumping of material from the quarry rim is permitted.

- 3.1.14 The Permit Holder shall at no time refuse entry to any vehicle registered with the Authority to transport inert and Construction and Demolition waste, unless such waste is not fit for disposal in a facility permitted to accept inert material. This is without prejudice to other ancillary permitted activities onsite.

3.2 Waste Storage and Handling

- 3.2.1 The Permit Holder shall ensure that all operations authorised in accordance with this Permit are carried out in an orderly manner and in such a way as to cause the least possible disturbance to the surroundings.
- 3.2.2 No storage of waste, equipment or materials is permitted on property outside the site premises.
- 3.2.3 Extractive waste generated from the extraction of minerals from this quarry, shall be deposited and backfilled in the same manner as the incoming inert waste utilised for the restoration of the same quarry.
- 3.2.4 All wastes (other than inert waste) shall be stored within a designated impermeable and controlled storage area(s) prior to ultimate disposal. Wastes to be recycled shall be stored in a designated container or area and shall not be mixed with other wastes.
- 3.2.5 In the event that unaccepted waste is tipped at the tip face, the Permit Holder and the staff on site are liable and responsible to retrieve that waste by every means possible to them. Should the Permit Holder not be in a position to carry out the retrieval operation, the Permit Holder is to sub-contract equipment or personnel to retrieve such waste on his behalf.
- 3.2.6 The storage of hazardous **waste generated on site** only shall comply with the requirements of S.L. 549.45 - the Waste Management (Activity Registration) Regulations.
- 3.2.7 Liquid and hazardous waste shall be stored in a labelled, closed container(s) within a designated impermeable and controlled storage area(s), equipped with an appropriate bunding system, prior to ultimate disposal. Wastes of different natures shall not be mixed in the same container.
- 3.2.8 No storage of waste destined for disposal is permitted for a period exceeding 12 months. No storage of waste (other than own-site inert waste) destined for recovery is permitted for a period exceeding 3 years.
- 3.2.9 Unless otherwise agreed with Authority, all stockpiles of inert material are to be located and managed in such a way as to avoid contamination of air or water through wind or run off respectively.

3.3 Crushing of Inert Waste Material

- 3.3.1 The crushing of inert waste shall be done through mechanical crushers equipped with dust suppression systems as per approved document **EP 0098/20/DOC01**.

3.3.2 Crushing of inert material and production of aggregate through mechanical crusher shall be carried out without significant dust emissions. Should the Authority deem it necessary, the Permit Holder is to submit a monitoring proposal as per condition 3.5.4.

3.3.3 Any non-inert materials which may result from the waste separation shall be disposed of at licensed facilities that are authorised to accept the waste.

3.4 Waste Disposal

3.4.1 Records shall be kept for the disposal of all hazardous waste generated from the processes and operations on site, including EWC Code, description, quantities, date of removal, contractor name (including for transport), consignment note number and place of disposal / recovery. The records shall be maintained for a minimum period of 5 years and be made available, upon request, to the Authority.

3.4.2 Disposal of wastes shall be managed accordance with the legal obligations of S.L. 549.63 – the Waste Regulations.

3.4.3 Off-site disposal of wastes may only take place at a facility licensed for that purpose.

3.4.4 The incineration of any type of waste or any other material on site is strictly prohibited.

3.4.5 On-site disposal of unpermitted wastes by any means including disposal to drain or surface water, burying or deposition on land is prohibited, unless specifically approved through a Variation of this Permit.

3.4.6 Disposal certificates shall be kept on record and made available for inspection for a period of five (5) years from their date of issue and shall be made available, upon request, by the Authority.

3.4.7 The Permit Holder shall make use of the services of a registered waste carrier for the transport of waste from the site in accordance with S.L. 549.45. Where the company removes wastes using its own transport the vehicle(s) must also be registered as a waste carrier in accordance with S.L. 549.45.

3.4.8 Permit Holder shall maintain records of the weight of each consignment removed from the site.

3.4.9 All hazardous waste transferred off the site and every individual movement of hazardous waste shall be accompanied by a valid consignment permit and consignment note obtainable from the Competent Authority.

3.4.10 Transboundary movement of waste shall be carried out in accordance with the following regulations, as amended from time to time:

- a) Regulation (EC) N° 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste;

- b) (Commission Regulation (EC) N° 1418/2007 of 29 November 2007 concerning the export for recovery of certain waste listed in Annex III or IIIA to Regulation (EC) N° 1013/2006 of the European Parliament and of the Council to certain countries to which the OECD Decision on the control of transboundary movements of waste does not apply, and
- c) Any other applicable legislation.

3.5 Emissions to Air

- 3.5.1 All processes which generate significant levels of airborne contaminants (such as dusts, toxic gases, and odorous chemicals) beyond the site boundary shall be fitted with abatement measures designed in such a way as to avoid local impacts.
- 3.5.2 Cement silos shall be equipped with effective dust suppression equipment that limits dust generation. Such equipment shall be maintained on a regular basis (as per manufacturer specifications) so as to ensure 100% efficiency (of equipment). Records of maintenance on such dust suppression equipment shall be kept in line with Section 4.2 and 4.3 of this permit. In addition, all abatement equipment and ducting shall be cleaned and maintained on a regular basis, as per manufacturer specifications. Records of such maintenance shall be kept in accordance with Condition 4.3.1.
- 3.5.3 Emissions to air shall arise from the emission points specified in Table 3.5.3, as per the description in the submitted EP application.

Table 3.5.3

Emission reference	Source
Source 1	Generator
Source 2	Generator
Source 3	Generator
Source 4	Generator
Source 5	Generator
Source 6	Generator
Source 7	Cement Silo
Source 8	Cement Silo
Source 9	Mobile Crusher
Source 10	Mobile Crusher
Source 11	Mobile Crusher

- 3.5.4 The Authority may request monitoring of emissions to air listed in Table 3.5.3 which shall be undertaken in accordance to the terms of reference provided by the Authority.
- 3.5.5 ERA recommends that diesel (gas oil) used for the mobile crusher and mobile screener shall have a sulfur content of not greater than 0.1%.

- 3.5.6 The co-incineration of any material or additional fuel including engine or other waste oil is strictly prohibited. Any change in fuel type shall require the notification and approval of the Authority prior to commencement of its utilisation.
- 3.5.7 The Permit Holder shall submit certification for the mobile crushers (Sources 9-11) and the generators (Sources 1-6) referred to in Table 3.5.3, by an independent warranted engineer showing that the mobile crushers and generators are in good working condition every four years from granting of the permit. The certification shall be submitted as part of the Annual Environment Report (AER) in Schedule 2.
- 3.5.8 Should the Permit Holder intend to install equipment, which could lead to additional emissions to air (e.g. boiler, etc.), a variation of this Permit must be secured prior to installation and operation of this equipment.
- 3.5.9 In the event of malfunction or breakdown leading to abnormal emissions from equipment, the Permit Holder must:
- a. Investigate immediately and undertake corrective action, and
 - b. Adjust the process or operation to minimise those emissions, and
 - c. Record the events and actions taken.

In the event of non-compliance causing immediate danger to the environment, operation must be suspended and the Competent Authority informed within 24 hours.

- 3.5.10 Further to condition 3.5.9, the Permit Holder shall provide ERA with details of the specific cause of the malfunction and the remedial steps taken or to be taken to address the malfunction.
- 3.5.11 All emission points shall be equipped with vents or stacks that are to be directed upwards and shall be located and designed in such a way that optimises dispersion (of the emission) and that minimises local effect.
- 3.5.12 The Permit Holder shall prevent or where that is not practical, reduce fugitive emissions of substances to air from the Permitted Installation. Particular areas of the operation which may generate dust shall be regularly wetted down to mitigate dust emissions onto the surroundings.
- 3.5.13 In the event of windy conditions and/or in the case of failure of the dust mitigation measures specified in approved document **EP 0098/20/DOC01**, leading to abnormal emissions within and beyond the site boundary, the Authority may instruct the Permit Holder to cease all operations until the cause is identified, and corrective action taken.

3.6 Effluent Discharges

- 3.6.1 No discharges to surface waters, land or groundwater shall take place at the installation.
- 3.6.2 The Permit Holder shall undertake all necessary measures and precautions to prevent spillage of materials such as waste oils, lubricant oils and any other materials that may potentially contaminate the environment.

- 3.6.3 All process and storage areas must be appropriately contained. Spillages of oil or other hazardous material shall receive immediate attention to prevent escape to drain, surface water, groundwater or land. All such storage areas must be appropriately contained. Spilled material shall be disposed of in sites permitted under the relevant environmental regulations to accept such waste. It is the Permit Holder's responsibility to ascertain that such waste is properly disposed of.
- 3.6.4 Spillages of oil or other hazardous material shall receive immediate attention to prevent escape to drain, surface water, groundwater or land. All such storage areas must be appropriately contained. Spilled material shall be disposed of in sites permitted under the relevant environmental regulations to accept such waste. It is the Permit Holder's responsibility to ascertain that such waste is properly disposed of.
- 3.6.5 Effluents consisting of solids (from such sources as washing of vehicles such as ready-mix delivery vehicles etc.) must pass through an adequately sized sump.
- 3.6.6 The volume of contaminated storm water shall be minimised by such means as:
- Mechanical sweeping of dusty/dirty areas of the site on a regular basis
 - Directing stormwater away from production/storage areas
 - Installing sediment barriers in stormwater courses
- 3.6.7 Storm water from areas where contamination is likely (such as loading/unloading areas) must pass through an adequately sized sump.

4. Site Management

4.1 Staff Obligations and Responsibilities

- 4.1.1 All employees authorised by the Permit Holder to undertake waste management activities on his/her behalf, shall be fully conversant with the obligations of this permit and shall be individually aware of their responsibilities and liabilities in observing the conditions of this permit.
- 4.1.2 At all times during operative hours there shall be:
- a. At least one employee controlling the entrance of the site and visually inspecting incoming waste during recycling operations;
 - b. One employee to operate the mechanical wheel shovel;
 - c. One employee to operate crushers and graders.
- 4.1.3 One member of the staff shall be nominated as the Technically Competent Person (TCP) of the site, whereby this person is to physically represent the Permit Holder during the times when the Permit Holder will not be available.
- 4.1.4 Where the Permit Holder is also the designated TCP for the facility, a delegate TCP should also be appointed to represent the Permit Holder/TCP during the times when the Permit Holder/TCP will not be available.
- 4.1.5 The TCP is responsible for the implementation of all the obligations stipulated in this permit, must supervise the rest of the staff on site and shall be the Permit Holder's technical focal point for the implementation of the conditions of this permit including during inspections. The TCP is completely responsible to ascertain

that all permit conditions are being adhered to and that unauthorised waste does not enter the site.

- 4.1.6 In the event of any leave of absence taken by the TCP and delegate conjointly for a period exceeding 10 days, the Permit Holder is obliged to find a replacement for that member of staff without delay and the Authority informed accordingly.
- 4.1.7 All the staff on site shall be fully knowledgeable on the handling and usage of fire extinguishers on site.
- 4.1.8 All staff shall be fully conversant with those aspects of the Permit conditions, which are relevant to their duties.
- 4.1.9 All the staff on site shall be fully aware of the procedures to be taken in the event of an accidental spill of any liquid other than water and how to contain the environmental hazard.
- 4.1.10 The Permit Holder shall conduct any monitoring programme/s as may be required by the Authority after consultation with other entities as required, to ensure that the quality of groundwater in the area is not compromised in the event of an environment hazard.
- 4.1.11 In the event of a spill, the Authority may commission an independent expert at the Permit Holder's expense or ask the Permit Holder to commission an independent expert to undertake any study deemed necessary after consulting the Malta Resources Authority.

4.2 Control of mud and debris

- 4.2.1 The Permit Holder is to sweep the road leading to the facility at least at end of operations daily in summer and on windy days during the year, unless otherwise indicated by ERA representatives and through official documentation.
- 4.2.2 At all times during the year the Permit Holder and/or TCP are to ascertain that the roads leading to the facility are clean and free of mud or large debris. In the event that mud or large debris is observed on the road the Permit Holder and/or TCP is to take remedial action and ascertain that the roads are immediately cleaned by means of a road sweeper or mechanical grip/shovel in cases where heavy mud is deposited on the road.

4.3 Site Records & Archive

- 4.3.1 A site daily operations log shall be made in a legible manner and kept on site and be made available for inspection by the Authority at any reasonable time. The following information shall be recorded on a daily basis and retained for 5 years:
 - a. Total amount of waste in tonnes accepted on site;
 - b. Total amount of waste in tonnes refused entry on site;
 - c. Total amount in tonnes and specific waste stream transferred from site;

- d. Any incidents that took place on site such as mechanical faults in the machinery or equipment used on site, any spills, fires, etc and the remedial action taken;
- e. Records related to Section 4.2;
- f. Any other incidents that the Permit Holder deems important to record in the Site daily operations log;
- g. Any complaints related to the operations at the site.

Each record shall be compiled within 24 hours of the relevant event. The records kept in the daily operational log and shall be made available for inspection at any time when the Authority representative request to inspect them.

- 4.3.2 A full record is to be kept of all the vehicles entering the site carrying waste to be recycled, their registration plate, date and time of entrance and the tonnage of each vehicle.
- 4.3.3 The Permit Holder may wish to establish an Environmental Management System (EMS) to facilitate compliance with permit conditions and to assist in formalising procedures required by this permit. An EMS can take the form of a standardised system (e.g. EN ISO 14001:2015 or EMAS) or a non-standardised (“customised”) system, provided that is properly designed and implemented. Guidance for a non-standardised (“customised”) system is included in Schedule 5 of this permit.

4.4 Reporting

- 4.4.1 The Permit Holder shall submit to the Authority an Annual Environmental Report (AER) of the previous year by not later than end of March of each year, providing the information listed in Schedule 2 of this Permit and in the format specified therein. It shall also be ensured that all certification and documentation as per Schedule 2 are submitted according to the relevant timeframes therein.
- 4.4.2 All reports and written and/or verbal notifications required by this Permit shall be made and sent to the Authority addressed to the Compliance and Enforcement Directorate, Environment and Resources Authority.
- 4.4.3 In the event where operations cease temporarily (2 weeks or more), the TCP or Permit Holder are obliged to notify the Authority within two (2) days and are also to inform the Authority with regards to when the works are intended to resume.
- 4.4.4 The Authority shall be informed within 24 hours in the event of an environmental hazard or major incidents.
- 4.4.5 As part of the Annual Environment Report in Schedule 2, the Permit Holder shall include an Annual Declaration (template of which is found in Schedule 4) by an independent body (an independent warranted architect, engineer or environment consultant) confirming that waste used for backfilling was suitable inert waste substituting non-waste materials. Such declaration is to be supported by a concise report carried out also by an independent body and which shall include:
 - a. A Quarterly review of the data on waste collected by the Permit Holder at acceptance stage on site, and

- b. Details of associated site visits carried out by the independent body on a quarterly basis.

In cases where during the reporting year, no backfilled material was accepted within the facility from outside sources, a declaration by the Permit Holder stating such shall suffice.

- 4.4.6 The Permit Holder shall within one (1) month from the date of this variation provide details to the Authority via ced.facilities@era.org.mt for approval of the appointed independent body that shall be responsible for the carrying out of the site visits, quarterly review and the provision of the Annual declaration. Should the Permit Holder for any reason require to appoint a different independent body other than the one originally notified to the Authority, the Authority is to be informed about such change immediately of their appointment.

4.5 Accident prevention and control

- 4.5.1 An Emergency Response Plan, shall be maintained containing details of the location, nature and quantity of chemicals, oils and fuels stored, any special hazards, a drawing showing location of drains and the emergency phone numbers of the Permit Holder and relevant authorities. It shall also include actions to be taken in the case of incidents which could affect the environment, such as fires and chemical/fuel spills.
- 4.5.2 In the case of an accident (e.g. chemical spills, etc.), the Permit Holder shall follow the Emergency Response Plan referred to in Condition 4.5.1 and, in the case that such accident could be regarded as causing environmental damage or as posing a threat of environmental damage, the Permit Holder shall notify the Authority within 24 hours.

5. Cessation of Operation

- 5.1 The Permit Holder shall notify the Authority prior to ceasing operations permanently in part or full, whereby an application for cessation of operations shall be made to the Authority and shall include a decommissioning plan.
- 5.2 In the event that the activities listed in condition 1.1.1 of this permit ceases unexpectedly and the Permit Holder is no longer interested in pursuing the permitted operation, the Permit Holder is to notify the Authority within seven (7) days.
- 5.3 In the event of cessation of operations of any plant and equipment specified in this Permit and/or which is integral to the carrying out of the permitted operations, the Permit Holder shall notify the Authority about the type of equipment, its intended fate and details of the transferee.

Unless the plant/equipment shall be transferred off-site in its current state, the Permit Holder shall submit a plan to the Compliance and Enforcement Unit which shall include the following details:

1. The appointed contractor or other competent person who shall carry out any works (e.g. cleaning, dismantling etc.).
2. A complete inventory of all the materials that shall be dismantled/removed, including waste streams classified according to their respective EWC code as per S.L. 549.63 and details on the manner in which waste will be managed. Waste resulting from depollution shall also be included.
3. The proposed cleaning, dismantling and transport procedures
4. Precautions and mitigation measures during such works to prevent spillages and other potential emissions to the environment.
5. Timeframes associated with the implementation of this plan.

For any plant/equipment and/or parts thereof which shall not be considered as waste in accordance with S.L. 549.63, The Waste Regulations, a certificate of good working order from an independent warranted engineer shall be submitted to the Compliance and Enforcement Unit following any works that may be necessary at the Permitted installation.

- 5.4 When the Authority deems it necessary, prior to the cessation/closure of the site, the Permit Holder shall carry out any monitoring tests as indicated by the Authority, which will determine whether the Permit Holder can be released from the obligation of this permit.
- 5.5 All obligations of this permit shall subsist until such time that the Authority notifies the Permit Holder in writing that all obligations and conditions of the permit have been fulfilled without prejudice to any liabilities and third-party rights.
- 5.6 In the absence of a valid development permit covering the final levels, the permitted operation shall at no time exceed the original site levels and be contiguous with surrounding contours.
- 5.7 Upon receiving official documentation from the Authority that confirms the site's closure, the Permit Holder is automatically responsible and liable in pursuing his responsibilities and fulfil his post-operational responsibilities, namely to:
 - i. Should the Authority deem it necessary, monitor the waste mass stability and submit a report.
 - ii. Assure that the site is properly secured and that it cannot in any possible way be used as an illegal dumpsite or be accessed for fly tipping.

Schedule 1

Complete List of Permitted Waste on Site

01 01 02	Waste from mineral non metalliferous excavation
01 04 08	Waste gravel and crushed rocks except those mentioned in 01 04 07 (wastes containing dangerous substances from physical or chemical processing of non-metalliferous minerals)
01 04 09	Waste sand and clays
01 04 13	Wastes from stone cutting and sawing except those mentioned in 01 04 07
17 01 01	Concrete except that mentioned in 17 01 06 (mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances.)
17 01 02	Bricks
17 01 03	Tiles and ceramics
17 01 07	Mixtures of concrete, bricks, tiles and ceramics other those mentioned in 17 01 06
17 02 02	Glass
17 05 04	Soil and stones (Excluding topsoil, peat; excluding soil and stones from contaminated sites)

Schedule 2**Annual Environment Report and Submissions****Important note**

By this submission, you confirm that you give your consent for the entire contents of this Annual Environment Report to be made available on the Authority's public website.

S2.1 Introduction

Environmental Permit Number	
Reporting Year (Calendar Year: 1 January to 31 December)	
Name and locality of Site	
Brief description of activities at the site	

S2.2 Waste Records**S2.2.1 Mineral Waste Records**

Mineral waste treatment sites				
Site I.D _____				
			Amount in Tonnes	Specification
Section 1	Waste Input	Mineral waste from Construction & Demolition (including civil engineering)		
		Excavation waste		
		Asphalt or tarmac waste		
		Soil		
		Sub-Total		
Section 2	Waste Treatment	Backfilling of Construction & Demolition waste (in own quarry site)		
		Backfilling of Excavation waste (in own quarry site)		
		Recycling (e.g. crushing)		
		Other (please specify type)		
		Sub-Total		
Section 3	Material Output (after waste treatment of C&D waste)	Aggregates for concrete		
		Aggregates for roadworks		
		Crushed material as torba		
		Crushed material for backfilling		
		Other (please specify type)		
		Sub-Total		
	Material Output (after waste treatment of Excavation waste)	Aggregates for concrete		
		Aggregates for roadworks		
		Crushed material as torba		
		Crushed material for backfilling		
		Sub-Total		
Section 4	Waste Output (resulting after treatment) - <i>Ex: Wood, plastic, metals</i>	Total amount (please specify destination)		

S2.3 Waste Records (waste removed from site)

Waste Type		Amount (tonnes / number)	Location of Disposal	
Tyres				
Scrap metal				
Others (please specify):				
Hazardous waste type	EWC Code ¹	Consignment note number	Destination	Quantity (tonnes)
Off-site transfers of hazardous waste (please specify, eg: Waste Oils, Batteries):				

The Permit Holder or TCP is also obliged to send to the Authority on a report on the following information:

- a. Vehicles refused entry
- b. Registration plates and Company name of vehicles who brought in unacceptable waste loads

S2.4 Fuel Consumption Data

Equipment ²	Fuel type	Fuel Consumption	Units
			tonnes
			tonnes
			tonnes

S2.5 Incidents and Complaints**S2.5.1 Non-Compliance Incidents during Reporting Year**

Date of incident	Brief description of Incident	Cause	Corrective action

Total number of non-compliance incidents for the previous reporting period:	
Total number of non-compliance incidents for the current reporting period:	

¹ European Waste Codes Catalogue
<https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02000D0532-20150601&qid=1475495799963&from=EN>

² E.g. Boiler, generator, vehicles, etc.

S2.5.2 Complaints made by the public or through Authority

Date of complaint	Description of complaint	Actions taken

Total number of complaints for previous reporting year:	
Total number of complaints for current reporting period:	

S2.6 Submission of certificates

Certification of Weighbridge Calibration annually	<input type="checkbox"/>
Certification of Crushers and Generators every four years	<input type="checkbox"/>
Fuel storage bunds certification of integrity	<input type="checkbox"/>
Submission of Waste Records every year	<input type="checkbox"/>
Submission of Annual Declaration	<input type="checkbox"/>

Permit Holder's declaration

I declare that, to the best of my knowledge, all the above information is correct and substantiated.

.....
Name
(in block letters)

.....
ID Card Number

.....
on behalf of / in my own name
(in block letters)

.....
Signature

.....
Date

Schedule 3A

Site Map

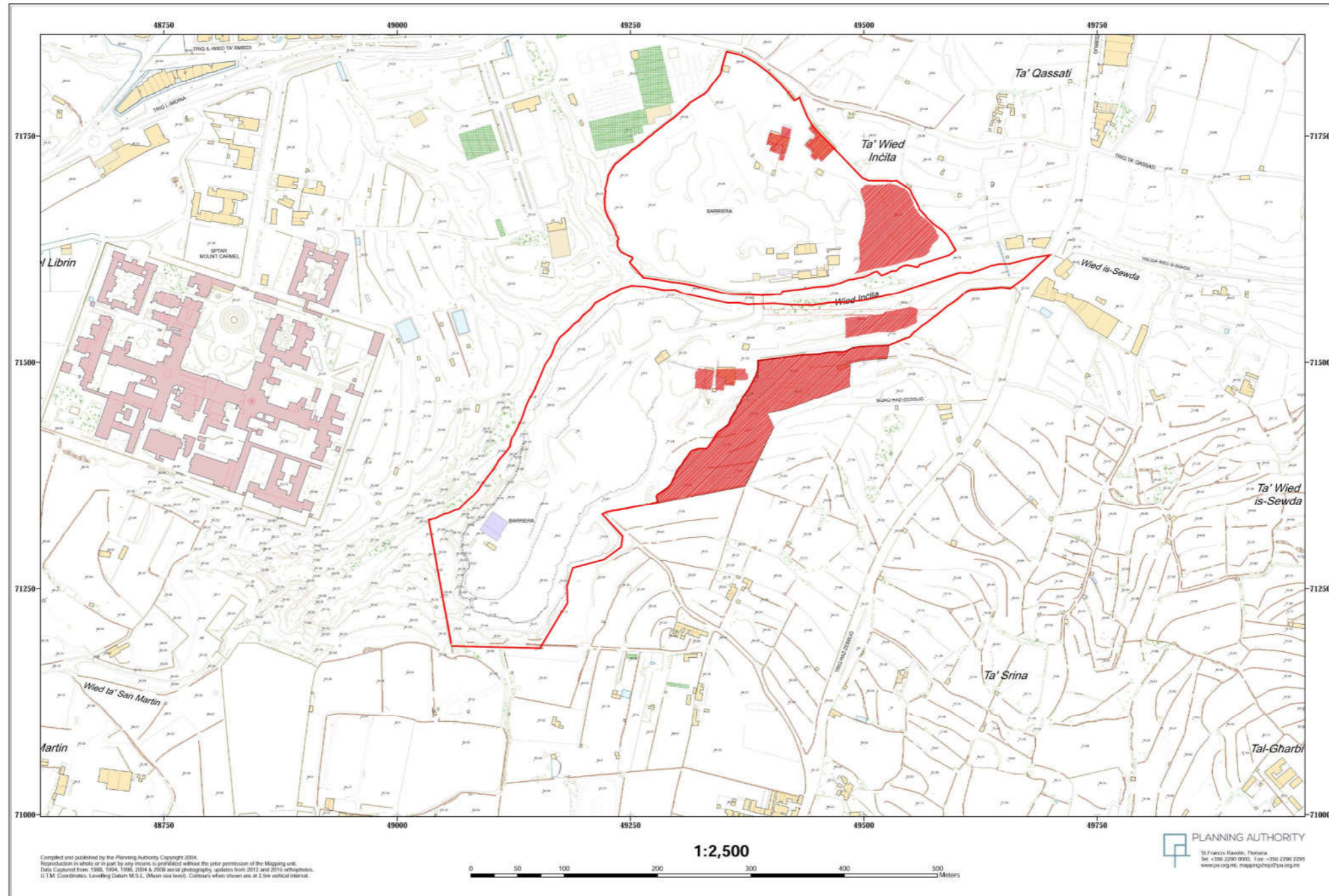


Fig. 3.1: Site of installation outlined in red, showing the extent of area authorised for operation for the carrying out of the activities specified in Condition 1.1.1. The extent of the site boundary is indicative and shall not be used for interpretation purposes.

Schedule 3B

Site Layout Plan showing Locations of Installations

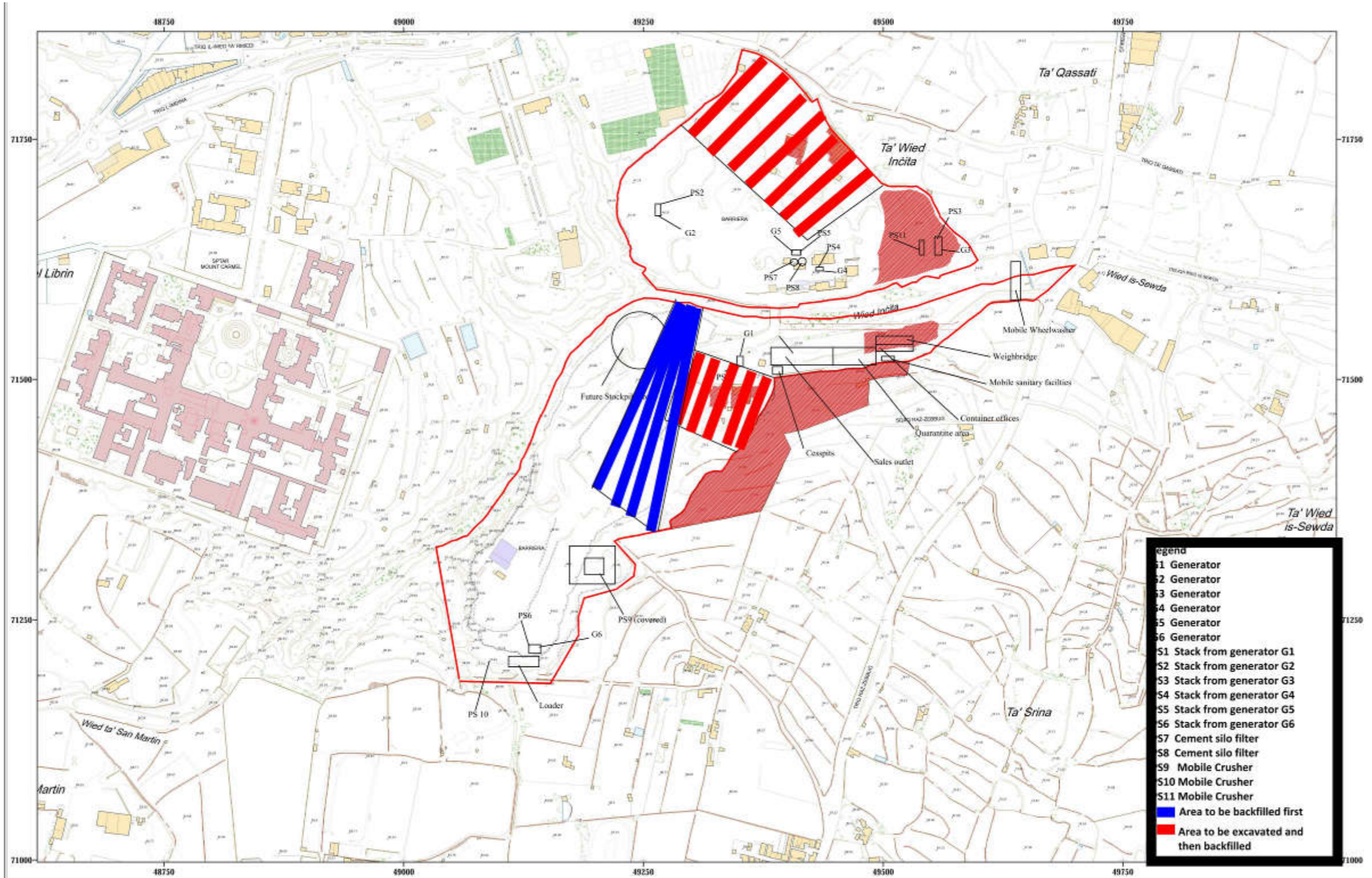


Fig. 3.2: Site of installation outlined in red, showing the extent of area authorised for operation for the carrying out of the activities specified in Condition 1.1.1. The extent of the site boundary is indicative and shall not be used for interpretation purposes.

Schedule 4
Annual Declaration Template

I, the undersigned, appointed by _____ as an independent body hereby declare that the waste used for backfilling at _____ during the year _____ was suitable non-hazardous waste substituting non-waste materials.

I hereby also attach a report substantiating the above as per condition 4.4.5.

I certify that the above information is complete, correct and to my best knowledge:

Name: _____

Date: _____

Signature: _____

Schedule 5

Minimum requirements for an Environmental Management System (EMS)

The EMS should include, as a minimum, the following elements:

1. Management and Reporting Structure

This should in particular include the name of the person who will be responsible for managing environmental aspects of the installation. Relevant qualifications and experience should be listed, together with contact details (including a mobile number for emergency purposes).

2. Environmental Objectives and Targets

The section should include a review of all operations and processes, a commitment by the Permit Holder to continuous improvement, and identification of priority areas where improvement to the operations is necessary and practicable, such as:

- a. Recycling of materials;
- b. Minimisation of waste;
- c. Efficient use of resources (especially water and energy);
- d. Use of biodegradable chemicals;
- e. Minimising use of solvents;
- f. Procedures to minimise noise disturbance to neighbours;
- g. Phasing out of CFCs and ozone-depleting substances, if any.

Targets should be set for priority areas identified (e.g. minimising waste generation by a predetermined percentage annually).

3. Environmental Management Programme (EMP)

This should include a time schedule for achieving the Environmental Objectives and Targets prepared under point 2 above. The time schedule should cover a period of 5 years. The EMP should include:

- a. Designation of responsibility for targets;
- b. The means by which they may be achieved;
- c. The time within which they may be achieved.

Targets and performance should be reviewed annually as part of the EMS.

4. Documentation

A system of documentation should be established to ensure that records are kept of the priority areas chosen according to point 2. In addition, the Permit Holder should issue a copy of the environmental permit to all relevant personnel whose duties relate to any condition of the permit.

5. Corrective Action

The Permit Holder should establish procedures to ensure that corrective action is taken should the specified requirements of the environmental permit not be fulfilled. The responsibility and authority for initiating further investigation and corrective action in the event of a non-conformity with the environmental permit should be defined.

6. Awareness and Training

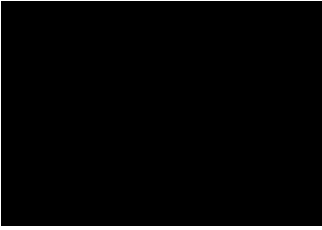
The Permit Holder should establish and maintain procedures for identifying training needs, and for providing appropriate training, for all personnel whose work can have a significant effect upon the environment. Appropriate records of training should be maintained.

7. Maintenance Programme

The Permit Holder should establish and maintain a programme for maintenance of all plant and equipment based on the instructions issued by the manufacturer/supplier or installer of the equipment. Appropriate record keeping and diagnostic testing should support this maintenance programme. The licensee should clearly allocate responsibility for the planning, management and execution of all aspects of this programme to appropriate personnel.

Schedule 6

Complete List of Chemical Products Stored on Site



END OF PERMIT