

Environmental Permit

Environment Protection Act (CAP. 549)

Permit number
EP 0030/13/B

The Environment and Resources Authority (hereinafter the Authority; the Competent Authority) in exercise of its powers under the Environment Protection Act (CAP. 549), hereby authorises:

Perit. Stephen Bonello o.b.o. Works and Infrastructure Department (hereinafter “the Permit Holder”),

Of / Whose Registered Office (or principal place of business) is at:

**Project House,
Triq Francesco Buonamici,
Floriana.
FRN 1700**

to operate an installation at:

- **The Birkirkara/ Imsida/Gzira Catchment discharging at Ta` Xbiex (Lat: 35.8995 °N / Long: 14.5007 °E),**
- **Zabbar/ Marsascula Catchment discharging at Xghajra (Lat: 35.8748 °N / Long: 14.5676° E) , and the**
- **Qormi/ Marsa Catchment discharging at Marsa (Lat 35.8788°N/ Long: 14.4969° E)**
- **Zebbug Catchment discharging at Wied Qirda (Lat 35.867500°N/ Long: 14.447276° E)**
- **Mosta Maintenance depot located at Triq tal-Labour, Mosta**

This permit is valid for **four (4) years** from the date below. An application for renewal of this permit is to be submitted at least six (6) months prior to expiry of this permit.

Signed	Date
Prof. Victor Axiak Chairman	Permit Granted: 11 / 8 / 2020

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 EP Application, or as otherwise previously agreed in writing by the Authority.

1.1 Status Log

Detail	Date
<i>Application Received</i>	4 th December 2013
<i>Permit determined and issued</i>	4 th November 2016
<i>Variation application</i>	26 th October 2016
<i>Variation application</i>	4 th April 2017
<i>Renewal application</i>	4 th September 2018
<i>Renewal & Variation determined by ERA Board</i>	7 th August 2020

1.2 Permitted Activities

1.2.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.2.1.

Table 1.2.1		
Activity	Description of specified activity	Limits of specified activity
Infrastructure related to flood relief	Receipt of runoff from determined catchment areas as per condition 1.3.1 and 1.3.2 and routing through tunnels, culverts, sedimentators and discharge structures that function by gravity and pumping to discharge points to sea and land at various locations	From receipt of rain water runoff to discharge to sea and discharge to land
Associated activity of storage, first flash treatment and disposal/recycling of waste materials resulting from surface water runoff	Handling, temporary storage, and disposal/recovery of wastes from the regular cleaning of the surface water runoff collection installation.	From generation of waste resulting from the cleaning of tunnels, culverts and oil & grit sedimentators to disposal or recycling (including recovery) offsite.
Associated activity of maintenance and disposal/recycling of waste materials at the maintenance depot	Handling, storage and containment of wastes from installation prior to disposal	From generation of waste to removal (including recovery) offsite at permitted facilities.

1.3 Site

1.3.1 The activities authorised under condition 1.2.1 shall not extend beyond the Site as shown on the Site Maps in Schedule 2A, 2B, 2C, 2D, 2E and 2F to this Permit.

1.3.2 The activities authorised under condition 1.2.1 shall not extend beyond the flood relief system as delimited by the following coordinates in table 1.3.2, as per the Site Maps in Schedule 2 to this Permit

Table 1.3.2 Co-ordinates of National Flood Relief System Co-ordinates		
E1	The Birkirkara/ Imsida/Gzira Catchment discharging at Ta` Xbiex	35.8995 (°N) 14.5007 (°E)
E2	The Zabbar/ Marsascalea Catchment discharging at Xghajra	35.8748 (°N) 14.5676 (°E)
E3	The Qormi/ Marsa Catchment discharging at Marsa	35.8789 (°N) 14.4966(°E)
E4	The Zebbug Catchment discharging at Wied Qirda	35.867500(°N) 14.447276(°E)

1.4 General Conditions

1.4.1 The conditions and obligations of this permit are without prejudice to any other regulation, code of practice, conditions or requirements requested by other Authorities or entities, including but not limited to, the Planning Authority, the Occupational Health and Safety Authority, Transport Malta, the Regulator for Energy and Water Services (REWS) and the Environmental Health Directorate

1.4.2 This permit is granted saving third party rights. The Permit Holder is not excused from obtaining any other permission required by law.

1.4.3 A copy of this permit shall be available at all times on site at the permitted facility, including any Variation Notices or amendments to it.

1.4.4 In these conditions and their interpretation, all terms shall have the same meaning as that assigned to them in CAP 549 the Environment Protection Act and its subsidiary legislation.

1.4.5 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.

1.4.6 The Permit Holder shall maintain a register of third party complaints. The register shall record the name and address of the complainant(s) if available, the date, source and nature of the complaint and the corrective action undertaken, where such action proves necessary.

1.4.7 All plant, equipment and technical means used in operating the Permitted Installation shall be maintained in good operating condition and without causing polluting emissions, leaks and spillages. The Permit Holder shall keep maintenance records as per Section 2.6 of this Permit.

1.4.8 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. Such training records shall be recorded and maintained in line with condition 3.3. Subcontractors who enter the site shall also be made aware of any obligations arising from the permit which might affect their duties.

- 1.4.9 The permit is valid for a period of four years from the date of the granting. The Permit Holder is able to renew the permit upon application with the Authority expressing his/her intention at least six (6) months prior to the expiry of this permit. The permit will be considered renewed once the official renewed permit is granted by the Authority.
- 1.4.10 In case of any monitoring requirements specified in this permit, there shall be provided safe means of access to enable sampling/monitoring to be carried out by the Authority or by a third party if deemed necessary.
- 1.4.11 The Authority may request monitoring and/or review of operational practices and/or commission audits on the installation as deemed necessary to address any circumstances that may affect quality of the surrounding environment.
- 1.4.12 Without prejudice to condition 1.4.11, the Authority may take any action deemed necessary including but not limited to the suspension of any activity/operation until investigations are concluded.
- 1.4.13 The Authority may carry out regular pre-set or unannounced compliance checks that vary in frequency according to the site's compliance with the permit conditions. Any checks or audits carried out by the Authority may be made at the Permit Holder's financial expense at the rate and arrangement communicated by ERA's Compliance and Enforcement Directorate.
- 1.4.14 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.
- 1.4.15 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 is without prejudice to any prevailing circumstances that would preclude the Authority from following such a procedure.
- 1.4.16 The Authority may suspend or revoke this environmental permit in line with the provisions of CAP 549
- 1.4.17 The Permit Holder shall undertake all reasonable measures and precautions to prevent spillage of raw materials, intermediates, products, waste and any other materials.
- 1.4.18 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.

1.5 Operational Changes

- 1.5.1 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 risks to 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. Any relevant supporting assessments and drawings, and;
- d. The proposed implementation date

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

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

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

1.6 Improvement Programme

1.6.1 The Operator shall complete the improvements specified in Table 1.6.1 by the date specified in that table and shall send written notification of the date of completion of each requirement to the Authority within 10 working days of the completion of each such requirement.

Table 1.6.1: Improvement programme		
Reference	Requirement	Deadline
3	Waste characterisation exercise for the silt collected from silt traps: <ul style="list-style-type: none"> a) Submission of the sampling and waste characterisation method statement in accordance with Schedule 3; b) Submission of a report with the waste characterisation results 	<ul style="list-style-type: none"> a. Within 6 months of granting of the permit. b. Within 1 year of issue of the permit
4	Installation of a flow meter at the outlets identified in Table 1.3.2.	Within 12 months of the granting of the permit.

2 Operating Conditions

2.1 Effluent Discharges

2.1.1 The operations of the installation shall not hinder the achievement of good status for surface and groundwater as required under the Water Policy Framework Regulations, S.L.549.100, and good environmental status for coastal waters as required under the Marine Policy Framework Regulations, S.L. 549.62.

2.1.2 The operator shall take all reasonable measures and precautions not to allow the introduction into groundwater of any substance included in the Regulations for the Protection of Groundwater against pollution and deterioration (S.L.549.59).

2.1.3 The operator shall take all reasonable measures and precautions to ensure that the discharged water during normal intensity rainfall events shall not contain any scum, foam, particulates or other residual matter.

2.1.4 Discharges to the marine environment shall only take place through the discharge point specified in Table 2.1.4, as highlighted in Schedule 2 and as per description in the submitted Environmental Permit Application.

Table 2.1.4 : Emission points to the marine environment	
Emission Point Referenceⁱ	Source
E1 (Ta` Xbiex)	Birkirkara/ Imsida Catchment
E2 (Xghajra)	Zabbar/ Marsascalea Catchment
E3 (Marsa)	Qormi/Marsa Catchment

2.1.5 Rainwater from areas where contamination by oil or chemicals is likely to pass through an adequately sized first flush system interceptor.

2.1.6 The discharge of untreated rainwater shall only take place under circumstances caused by water flows into the oil and grit sedimentators that exceed 20 L/sec.

2.1.7 For each of the Effluent points in Table 2.1.4, the Operator shall carry out monitoring for the parameters listed in Table 2.1.9 twice a year during the validity of the permit. The first sampling episode shall be carried out after September of each year following the first rains, whilst the second sampling exercise shall be carried out within 6 months of the first sampling episode. The national limits provided are indicative and provide a benchmark to which the sampling results may be compared to.

Table 2.1.9 : Emission limits to the marine environment		
Emission point reference	Parameter	National Limit
E1 – E3	pH	6-10
	Temperature	5°C above ambient at outlet
	COD	125mg/L O ₂
	Total Suspended Solids	35mg/L

2.1.8 The parameters and limits specified in table 2.1.9 may be subject to revision by the Authority, as deemed necessary.

2.1.9 The monitoring shall be carried out in accordance with section 2.3.

2.2 Emissions to Land

2.2.1 Discharges to the land shall only take place through the discharge point E4 as highlighted in Schedule 2E and as per description in the submitted Environmental Permit Application.

2.2.2 The Operator shall carry out effluent analysis, for the discharge point E4 for the parameters listed in Table 2.2.2 twice a year during the validity of the permit. The first sampling episode shall be carried out after September of each year following

ⁱ According to Section 6 of the Environmental Permit application

the first rains, whilst the second sampling exercise shall be carried out within 6 months of the first sampling episode. The national limits provided are indicative and provide a benchmark to which the sampling results may be compared to.

Table 2.2.2 : Emission limits to the land		
Emission point reference	Parameter	National Limit
E4	pH	6-10
	COD	125mg/L O ₂
	Total Suspended Solids	35mg/L

2.2.3 The parameters and limits specified in table 2.2.2 may be subject to revision by the Authority, as deemed necessary.

2.2.4 The monitoring shall be in accordance with section 2.3.

2.3 Monitoring requirements

2.3.1 The parameters and limits specified in Table 2.1.9 and Table 2.2.2 may be subject to revision by the Authority, as deemed necessary.

2.3.2 The operator shall make sure that any sampling and chemical analyses is carried out by a laboratory accredited (or in the process of accreditation, as confirmed by the National Accreditation Body (NAB-Malta) or equivalent) to at least EN ISO 17025:2005/Cor 1:2006 and preferably for each and every test listed in Table 2.1.9 and Table 2.2.2. The Permit Holder shall include a copy of the laboratory's accreditation certification in the AER.

2.3.3 The Operator is allowed to analyse for the parameters in Table 2.1.9 and Table 2.2.2 using equivalent standard methods, unless an EN, EN ISO or ISO method is available for the relevant analyses. In case methods other than EN, EN ISO or ISO are intended to be used for the analyses listed in this table, the Operator shall seek the Authority's prior written approval in order to analyse for a particular parameter using any standard method.

2.3.4 In the case of use of multi-parametric probes, these are to be calibrated as per instrumentation standard. A copy of latest certification is to be submitted to the Authority together with the monitoring results.

2.3.5 The operator shall make sure that sampling, chemical analyses and any statistical data analyses is carried out according to the requirements in Schedule XI of S.L. 549.100.

2.3.6 The effluent monitoring results shall be submitted as part of the Annual Environmental Report. The information contained in this report shall be prepared in accordance with the format specified in Schedule 1.

2.4 Waste

Waste storage and handling

2.4.1 All operations concerning the management of waste are subject to the Waste Management Regulations (S.L.549.63) and the Waste Management (Activity Registration) Regulations (S.L. 549.45).

- 2.4.2 All wastes shall be stored within a designated 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.
- 2.4.3 Liquid and hazardous wastes shall be stored in a labelled, closed container(s) within a designated and controlled storage area(s) prior to ultimate disposal. Wastes of different natures and having different European Waste Catalogue codes as established by Commission Decision 2000/532/EC shall not be mixed in the same container.
- 2.4.4 Packaging and containers which came into contact with hazardous substances shall be regarded as hazardous waste and shall be disposed of in an appropriate manner.
- 2.4.5 No storage of waste, equipment or materials is permitted on property outside the site boundary referred to in condition 1.3.1.
- 2.4.6 All storage of materials or waste shall take place only in locations where thorough clean-up and site reinstatement can be readily undertaken.
- 2.4.7 No storage of waste destined for disposal is permitted for a period exceeding 12 months. No storage of waste destined for recovery is permitted for a period exceeding 3 years.
- 2.4.8 The Operator shall ensure that waste transferred to another person is packaged and labelled in accordance with national, European and any other standards which are in force in relation to such labelling. While awaiting collection, recovery or disposal all waste shall be stored in designated areas protected, as may be appropriate, against spillage, leachate run-off and accidental damage. The waste is to be clearly labelled and appropriately segregated.
- 2.4.9 Any material removed from the tunnel shall be immediately carted away for disposal at facilities permitted by ERA for such waste. In case the material is required to be dried beforehand, this shall occur within the confines of the permitted system on impervious ground following notification to and approval by ERA.

Waste recovery or disposal

- 2.4.10 No treatment, dismantling or recovery of waste is allowed on site unless otherwise specified in this permit.
- 2.4.11 The Permit Holder shall be committed to reduce waste generation where possible.
- 2.4.12 The operator is to prevent litter or other wastes escaping from the site boundaries, particularly during loading/unloading. Any such escape of waste shall be collected immediately upon detection.
- 2.4.13 On-site disposal of wastes by any means including burning, disposal to drain or surface water, burying or deposition on land is prohibited.
- 2.4.14 Off-site disposal or recovery of wastes may only take place at a facility licensed for that purpose.

Transport

- 2.4.15 In the case of waste that is sent for treatment or recovery to another facility locally or abroad, the audit trail shall cover all waste from the point of generation or collection to the end recovery or disposal facility.
- 2.4.16 The Operator shall ensure that no waste escapes to the environment especially when transporting such materials offsite or onsite.
- 2.4.17 All wastes leaving the site after storage and/or processing must only be sent to facilities licensed to accept the individual waste stream, either locally or abroad.
- 2.4.18 The transboundary movement of waste shall be carried out in accordance with the following regulations, as amended from time to time:
- i. Regulation (EC) N° 1013/2006 of the European Parliament and of the Council of 14 June 2006 on shipments of waste as implemented through SL 549.65;
 - ii. 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
 - iii. Any other applicable legislation.
- 2.4.19 The Permit Holder shall make use of the services of a registered waste carrier for the transport of waste from the site in accordance activity 38 of schedule 1 of Subsidiary Legislation 549.45, the Waste Management (Activity Registration) Regulations. 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 or any statutory provisions or regulations amending or replacing them.
- 2.4.20 Movement of hazardous waste to authorised facilities shall be covered by a valid consignment permit obtainable from the Competent Authority. Each movement shall also be covered by a consignment note obtainable from the Authority.
- 2.4.21 Should the operator require the services of a waste broker, it shall be ensured that any such broker is a duly registered waste broker in accordance with S.L. 549.45.
- 2.4.22 In the case of waste that is sent for treatment or recovery to another facility locally or abroad, the audit trail shall cover all waste from the point of generation or collection to the end recovery or disposal facility.

Waste Records

- 2.4.23 The Permit Holder shall ensure to keep records for every consignment of hazardous wastes, or other wastes, as deemed necessary by the Authority, removed from the Site indicating the EWC Code, description, quantities, date of removal, contractor name (including for transport), consignment note number (where applicable) and manner and place of final disposal/recovery.
- 2.4.24 Disposal and certificates shall be kept on record and made available for inspection for a period of at least 3 years from date of their issue.

Waste Sampling exercise

- 2.4.25 Further to improvement programme item 3, in table 1.3.1, a waste characterisation exercise shall be carried out in accordance with Schedule 3.

2.5 Chemical and Fuel Storage

- 2.5.1 No chemicals or fuels shall be stored within the facility or its ancillary centre unless approved in writing by the competent Authority

2.6 Maintenance

- 2.6.1 The pipeline, tunnels, culverts, sedimentators, interceptors and discharge structures shall be maintained in an efficient operational condition, so as to minimise the probability of blockages or other failures. The tunnel system, shall be regularly inspected and well maintained so as to ensure, as far as possible, that any emissions to land through soakaways and through the tunnel walls are free of contaminants.

The operator shall carry out regular maintenance of the integrity and performance of all structures. Records of such maintenance shall be provided to the Authority upon request. A survey of the pipeline shall be carried out at least every 4 years. A copy of this survey shall be submitted to the Authority together with the application for renewal.

- 2.6.2 Further to point 2.6.1, the Operator shall keep the following maintenance records:
- i. A written or electronic maintenance programme; and
 - ii. Records of its maintenance.

2.7 Accident prevention and control

- 2.7.1 Spillages of chemicals or other hazardous material within or into the tunnels shall receive immediate attention to prevent escape to drain, surface water or land. Spilled material shall be disposed of in an appropriate manner. Kits for the collection of liquid and powder spills shall be available on site at strategic locations.
- 2.7.2 In the case that such accident could be regarded as causing environmental damage or as posing a threat of environmental damage, the Operator shall notify the Authority within 24 hours.

2.8 Management and Technically Competent Person

- 2.8.1 One member of the staff should 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.
- 2.8.2 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 is completely responsible to ascertain that all permit conditions are being adhered to.
- 2.8.3 In the event of any short or long periods of leave of absence taken by the TCP for a period exceeding 10 days or a change in the TCP, the Permit Holder is obliged to find a replacement for that member of staff without delay and the Authority informed accordingly.

- 2.8.4 All the staff on site shall be fully aware of the procedures to be taken in the event of an accidental spill of any liquids other than water and how to contain the environmental hazard.

3 Site Records & Archive

- 3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:

- 3.1.1 Be made available for inspection by the Authority upon request at any reasonable time;
- 3.1.2 Be supplied to the Authority on demand and without charge and in the format requested;
- 3.1.3 Be legible
- 3.1.4 Indicate any amendments which have been made and shall include the original record wherever possible; and
- 3.1.5 Be retained at the Permitted Installation or accessed electronically from the Permitted Installation, for a minimum period of 3 years from the date when the records were made, unless otherwise agreed in writing.

- 3.2 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:

- 3.2.1 Any incidents that took place on site such as mechanical faults in the permanently fixed machinery or equipment used on site, any spills, fires, etc and the remedial action taken.
- 3.2.2 Any maintenance and inspections carried out on permanently fixed machinery and equipment.
- 3.2.3 Total amount of waste in kilos removed from site for disposal or further treatment
- 3.2.4 Any other incidents that the Permit Holder deems important to record in the Site daily operations log.

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

- 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 or EMAS) or a non-standardised ("customised") system, provided that is properly designed and implemented.

4 Reporting

- 4.1 The Permit Holder shall submit to the Authority an Annual Environmental Report (AER) of the previous year by the end of March of each year. The AER shall contain all the information listed in Schedule 1 of this Permit and in the format specified therein. The AER shall be forwarded to the Authority in electronic

format. It shall also be ensured that all certification and documentation are submitted.

- 4.2 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.

5 Closure and Decommissioning

- 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 of cessation of operations on the site, the Permit Holder shall remain responsible for all wastes and hazardous materials on site, which shall be removed from the site in accordance to good environmental practice and in such a manner that minimises environmental risks.

- 5.3 The Decommissioning Plan shall be implemented once approved by the Authority and within 12 months of final cessation of operations or as agreed with the Authority in writing.

- 5.4 When deemed necessary the Authority may require the permit holder to take such additional measures as it considers necessary with respect to after care obligations in relation, but not limited to the remedial action, rehabilitation, and monitoring of the waste management or waste production site.

Schedule 1

Annual Environmental Report

Important note

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

S1.1 Introduction

Environmental Permit Number	EP 00030/13/B
Name and locality of Site	The Birkirkara/ Imsida/Gzira Catchment discharging at Ta` Xbiex (Lat: 35.8995° N / Long: 14.5007° E), Zabbar/ Marsascalea Catchment discharging at Xghajra (Lat: 35.8748° N / Long: 14.5676° E) , Qormi/ Marsa Catchment discharging at Marsa (Lat: 35.8789° N / Long:14.4966° E) and (Lat: 35.8788° N / Long: 14.4969° E.) Zebbug Catchment discharging at Zebbug (Lat 35.867500°N/ Long: 14.447276° E)
Brief description of activities at the site	Receipt of runoff from determined catchment areas and routing through tunnels, culverts, sedimentators and discharge structures that function by gravity to discharge points to sea at various locations
Reporting Year (Calendar Year:1 January to 31 December)	

S1.3 Off-site transfers and exports of hazardous waste

Date of transfer	EWC Code ⁱⁱ	Quantity of waste (in kg)	Consignment note number and/or TFS (Transfrontier Shipment of waste) reference number	Final destination

ⁱⁱ European Waste Catalogue Code (Reference: *Commission decision 2000/532/EC establishing a list of wastes*)

S1.4 Off-site transfers of non-hazardous Waste

Date of transfer	EWC Code ⁱⁱ	Quantity of waste (in kg)	Final destination	Name(s) of registered waste carrier used during reporting year

S1.5 Transport

Name(s) of registered waste carrier used during reporting year	Waste type(s) transported

S1.6 Monitoring Data

S1.6.1 Emissions to the Marine Environment

Parameter	Emission point reference	National Limit Value	Standard methodology used	Total annual number of exceedances ⁱⁱⁱ	Concentration (Annual Average)	Unit	Total Annual Load	Unit
pH	E1	6-10				N/A		N/A
Temperature	E1	5°C above ambient				°C		N/A
COD	E1	125mg/L O ₂				mg/L O ₂		kg
Total Suspended Solids	E1	35mg/L				mg/L		kg

pH	E2	6-10				N/A		N/A
Temperature	E2	5°C above ambient				°C		N/A
COD	E2	125mg/L O ₂				mg/L O ₂		kg
Total Suspended Solids	E2	35mg/L				mg/L		kg

pH	E3	6-10				N/A		N/A
Temperature	E3	5°C above ambient				°C		N/A
COD	E3	125mg/L O ₂				mg/L O ₂		kg
Total Suspended Solids	E3	35mg/L				mg/L		kg

S1.6.2 Emissions to the land

ⁱⁱⁱ If the total number of exceedances exceeds 0, the value of each of these exceedances (for the reporting year) must be submitted in a separate report, together with action taken to regularise the situation

pH	E4	6-10				N/A		N/A
COD	E4	125mg/L O ₂				mg/L O ₂		kg
Total Suspended Solids	E4	35mg/L				mg/L		kg

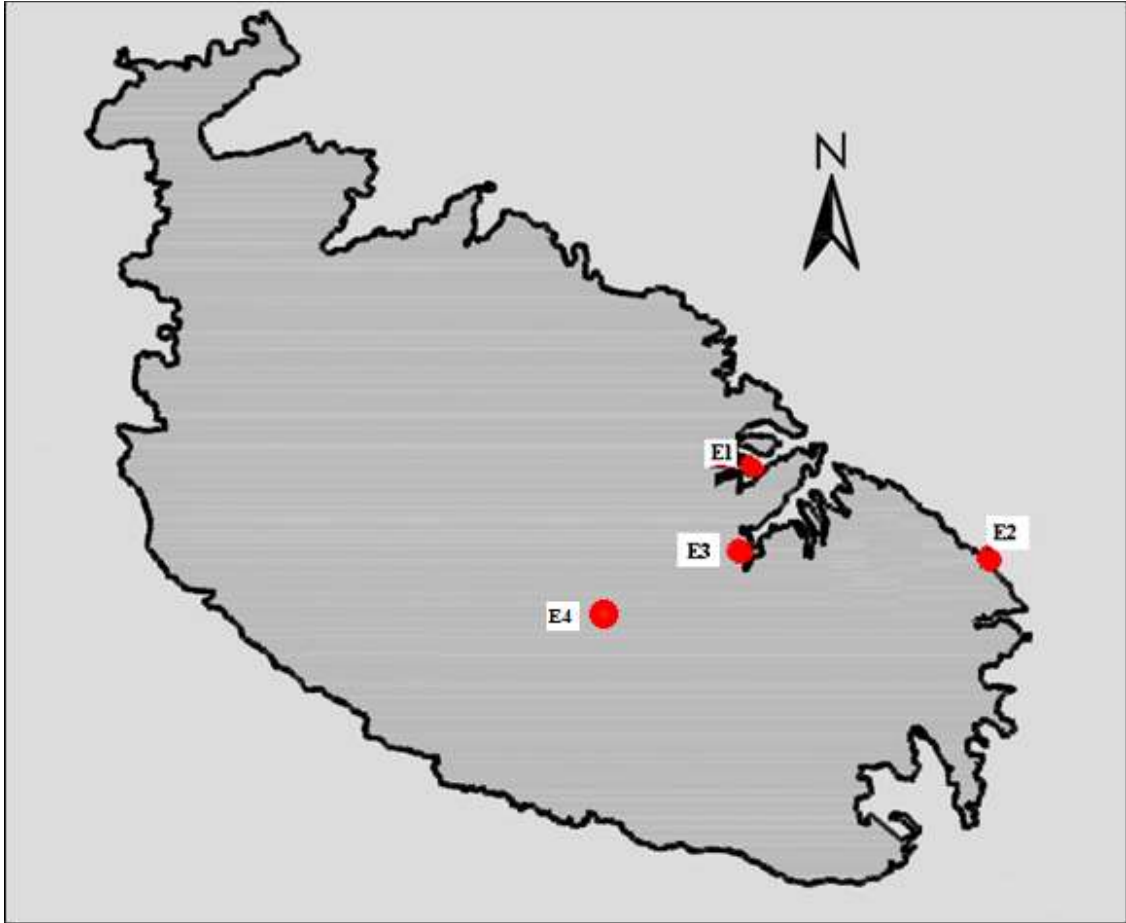
S1.6. Submission of certificates/monitoring

Kindly provide status update for the requirements tabled below. Where relevant supporting documentation is to be attached.

Reference in Permit		
1.6	Improvement Programme Items as per Table 1.6	<input type="checkbox"/>
2.1.7	Monitoring of E1-E3 shall be carried out on an annual basis	<input type="checkbox"/>
2.2.2	Monitoring of E4 shall be carried out on an annual basis	<input type="checkbox"/>
2.3.2	Copy of the laboratory's accreditation certification	<input type="checkbox"/>
2.4.25	Waste characterisation on silt result submission	<input type="checkbox"/>

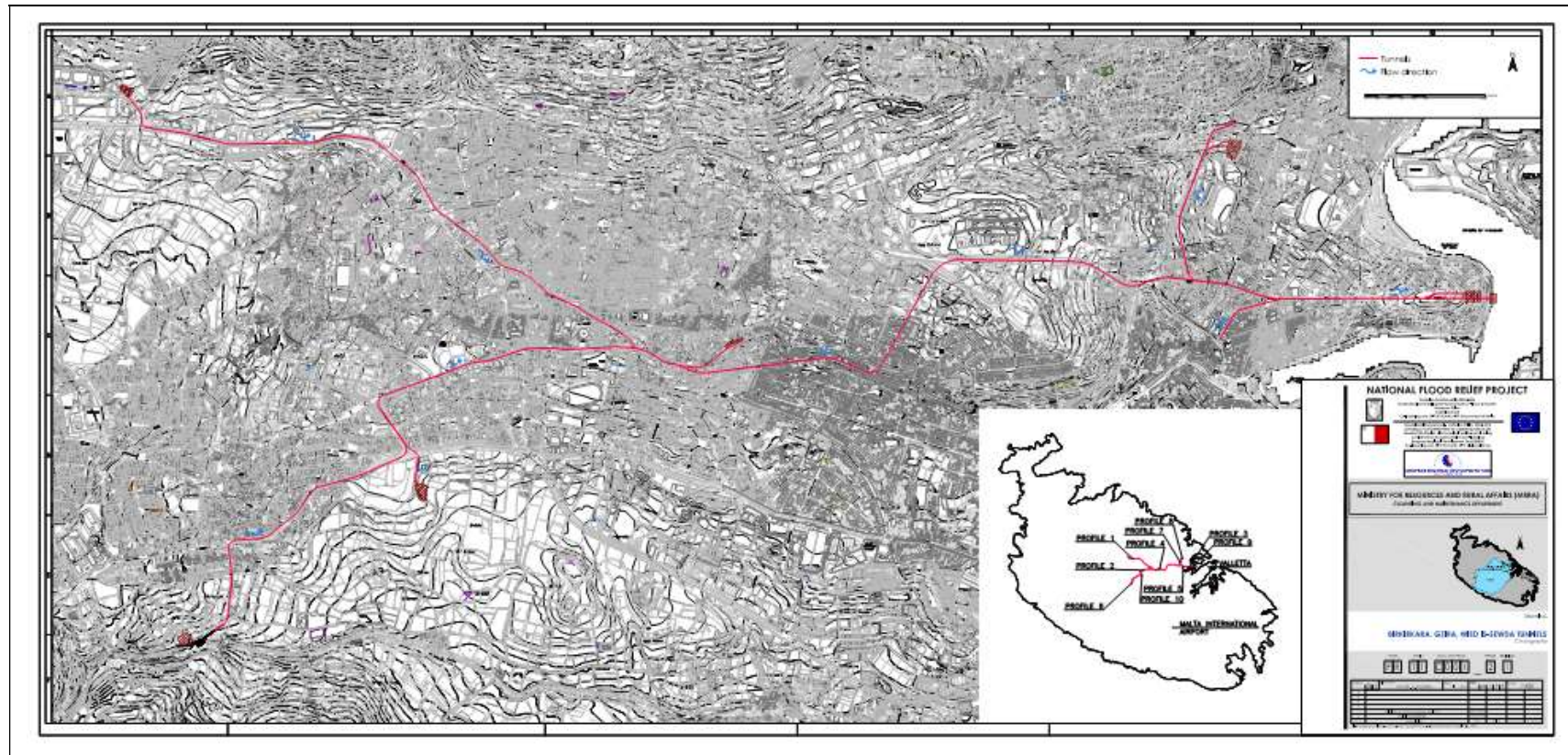
<p>Applicant's declaration</p> <p><i>I declare that, to the best of my knowledge, all the above information is correct and substantiated.</i></p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>.....</p> <p>Name <i>(in block letters)</i></p> </div> <div style="width: 30%;"> <p>.....</p> <p>ID Card Number</p> </div> <div style="width: 30%;"> <p>.....</p> <p>on behalf of / in my own name <i>(in block letters)</i></p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>.....</p> <p>Signature</p> </div> <div style="width: 30%;"> <p>.....</p> <p>Date</p> </div> </div>		
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Schedule 2 A
Permitted Effluent Discharge Points

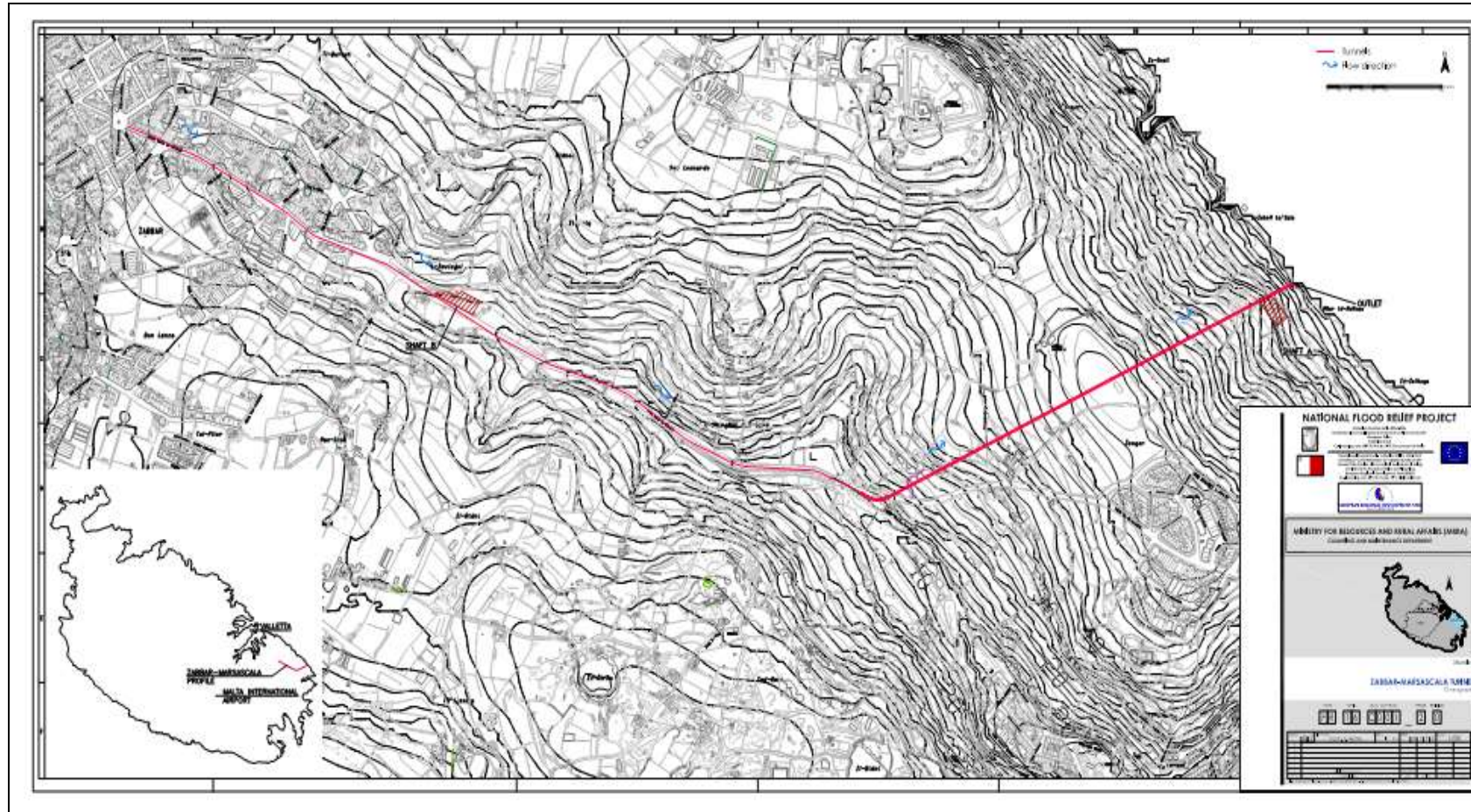


Schedule 2 B

Site Map - The Birkirkara/ Msida Catchment discharging at Ta` Xbiex



Schedule 2 C
Site Map - Zabbar/ Marsascala Catchment discharging at Xghajra



Schedule 2 D
Site Map - Qormi/ Marsa Catchment discharging at Marsa

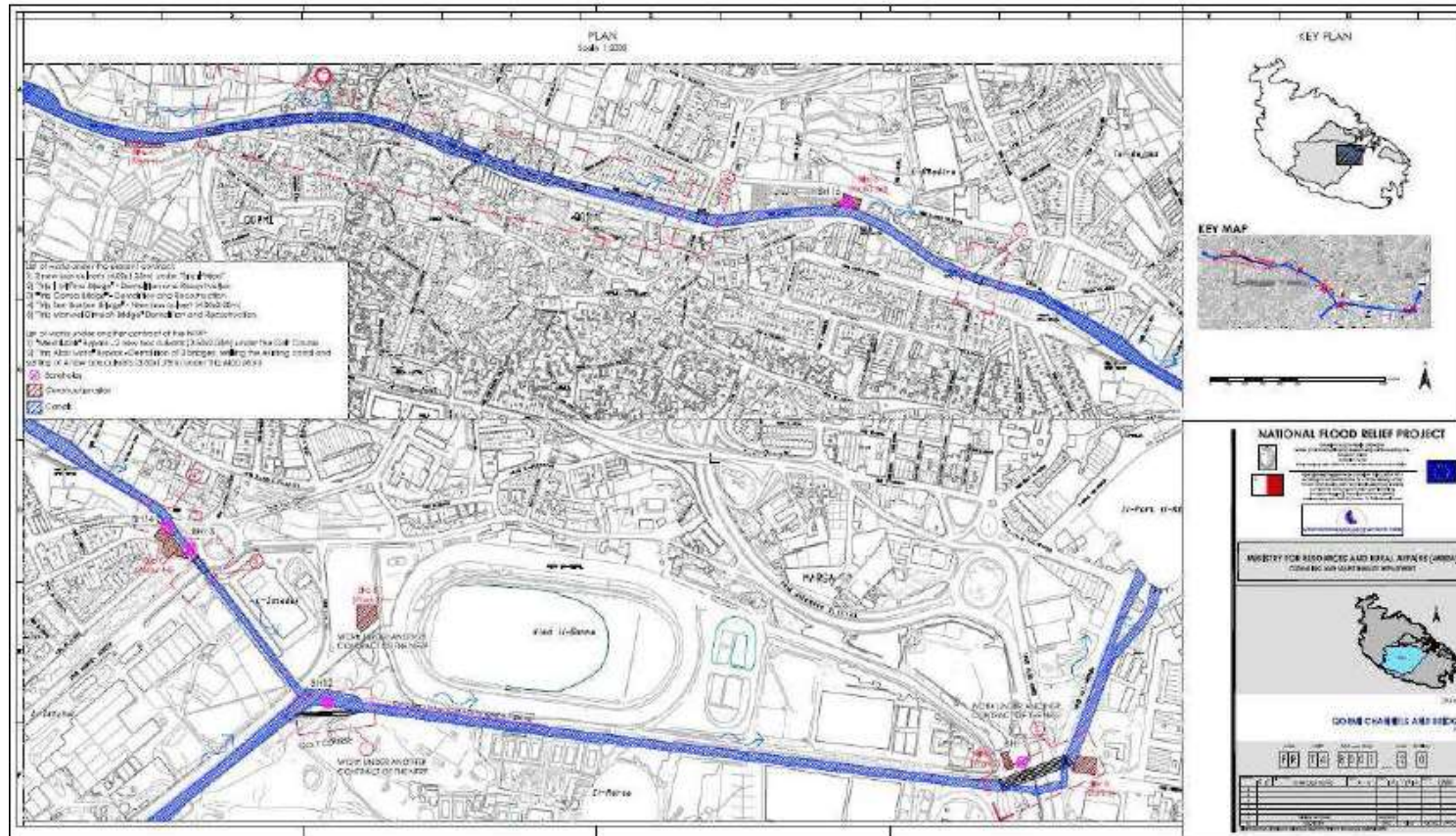


Figure 2.3.4.1 - Genertal lay-out of Qormi-Marsa canals and bridges (interventions in Qormi)

Schedule 2 E
Site Map - Zebbug Catchment discharging at Zebbug

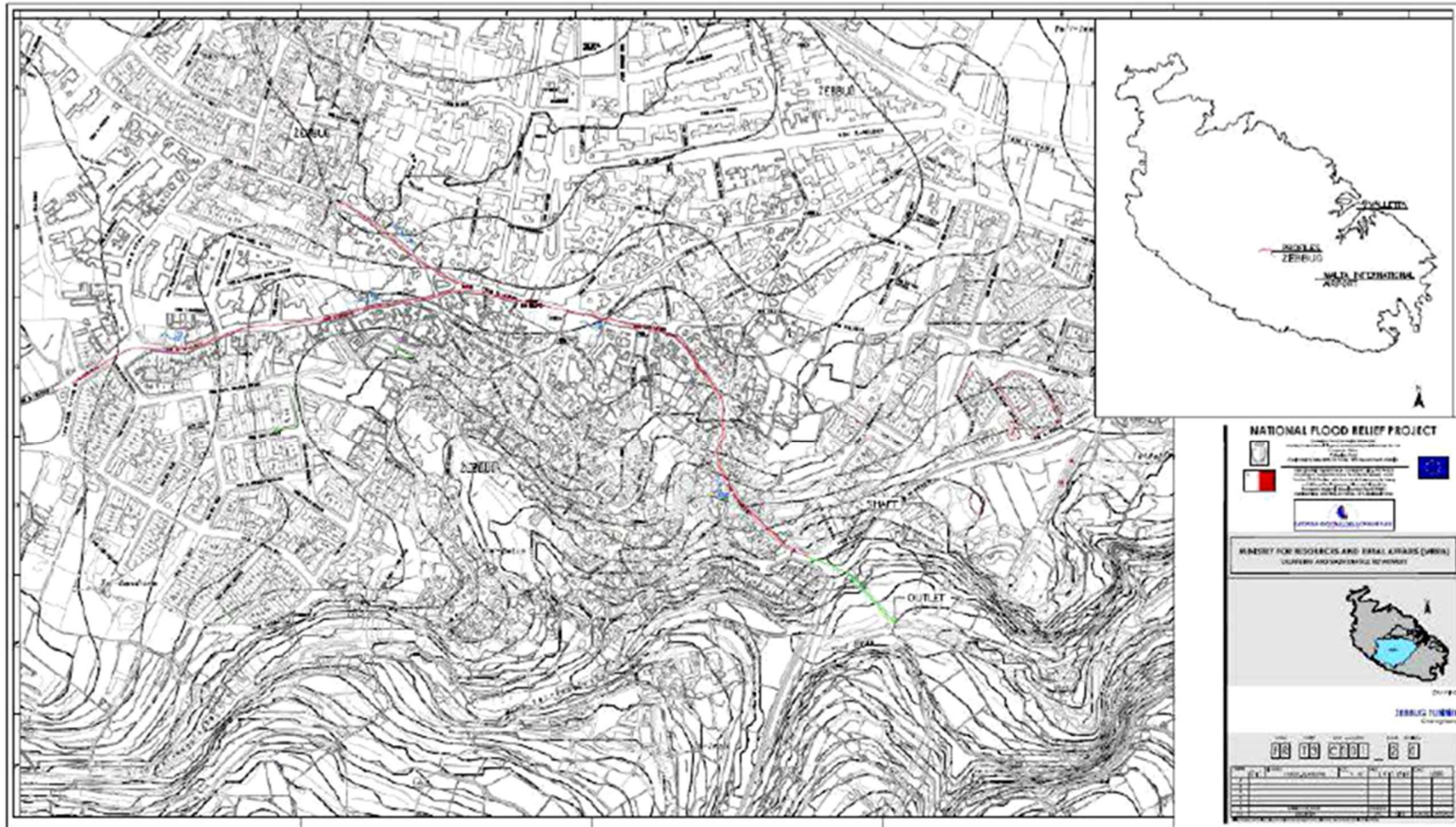
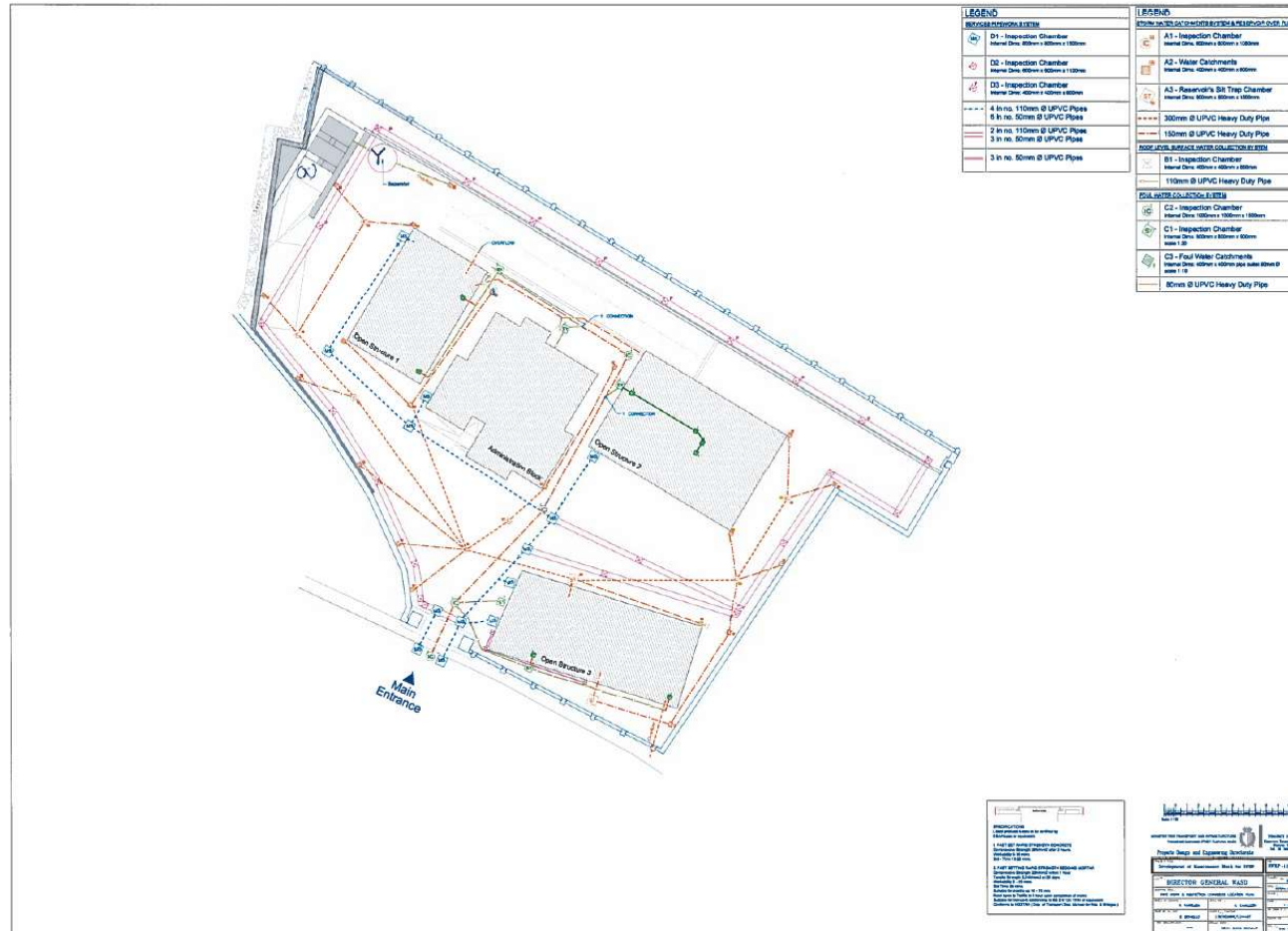


Figure 2.3.3.1 - Genertal lay-out of Zebbug tunnels

Schedule 2 F

Site Map – Mosta Maintenance Depot



Schedule 3

Terms of Reference: Waste Characterisation exercise

Section 1: Sampling and chemical analysis of waste

1.1. Sampling requirements (*Sampling plan to be submitted to ERA before commencement of works*)

Wastes are materials, which the holder discards, intends or is required to discard, and which may be sent for final disposal, reuse or recovery. Such materials are generally heterogeneous, and samples which are representative of this heterogeneous nature are required in order to determine the nature of such waste. In addition, it is necessary to specify the amount of waste for which the characteristics of interest need to be defined. Testing allows informed decisions to be made on the appropriate treatment, recovery and/or disposal operations that need to be carried out for the waste in question.

In order to undertake valid tests, samples which are representative of the waste in question are required. A sampling plan, as per standard method EN 14899 or equivalent, shall be completed and submitted for approval by the Authority prior to the undertaking of any sampling.

1.2. Compositional analysis

Following the submission of the sampling plan, a method statement including the standards which will be followed for the extraction and analyses of the waste in question should be provided. Such method statement should include the following as a minimum for each parameter to be tested:

- Standards to be followed (extraction + analysis);
- Limits of Detection; and
- Lab accreditation document to undertake such testing.

The following non-exhaustive list of standards, and their respective amendments, are to be utilized for the basic characterisation of waste to determine the total content in the waste (mg/kg), including any digestion of raw waste.

Table 1: Non-exhaustive list of CEN standards for the characterisation of waste

Standard Number	Standard Description
EN 13657	Digestion for subsequent determination of aqua regia soluble portion of elements (partial digestion of the solid waste prior to elementary analysis, leaving the silicate matrix intact)
EN 13656	Microwave-assisted digestion with hydrofluoric (HF), nitric (HNO ₃) and hydrochloric (HCl) acid mixture for subsequent determination of elements (total digestion of the solid waste prior to elementary analysis)
EN 13137	Characterisation of waste. Determination of total organic carbon (TOC) in waste, sludges and sediments
EN 14346	Characterization of waste. Calculation of dry matter by determination of dry residue or water content
EN 16192	Characterization of waste. Analysis of eluates (expressed as mg/kg)
EN 14039	Characterization of waste. Determination of hydrocarbon content in the range of C10 to C40 by gas chromatography.

Moreover, should there be any parameters for which the laboratory is proposing an alternative method, it must be ensured that the proposed method is validated against the above required

methodology. All testing is to be carried out at a laboratory accredited to EN ISO/IEC 17025 or equivalent standard methods, and detection limits for the different contaminants shall be provided.

If required, kindly refer to Annex 4 of Commission notice on technical guidance on the classification of waste (2018/C 124/01) for further guidance on sampling and chemical analysis of waste.

1.3. Determining the nature of the waste

Following a compositional analysis on the waste as indicated above, the applicant or a third party acting on his behalf, is required to determine the nature of the waste (i.e. whether it is of a hazardous or non-hazardous nature), by carrying out a desk-based Hazardous Property (HP) Assessment. It is to be highlighted that the compositional data derived from the chemical analysis of the waste is to be used for the HP assessment and classification of waste (i.e. assessment of both organic and inorganic determinants).

A reasonable worst-case compound for each element identified from the compositional analysis, shall then be determined and for each of the said worst-case compound, the hazardous property and its related hazard statement shall be identified. The related hazard statements for the identified worst-case compounds shall be assessed and determined in line with the criteria laid down in Regulation (EC) No 1272/2008 (hereinafter referred to as the CLP Regulation). According to the CLP Regulation, a *hazard statement* means a code assigned to a hazard class and category that describes the nature of the hazards of a hazardous substance or mixture, including, where appropriate, the degree of hazard.

In simple terms, each worst-case compound identified has a related hazard statement that can be obtained from the CLP Regulation and the said hazard statement is in turn related to a hazardous property referred to in Schedule 3 of S.L. 549.63 - the Waste Regulations as per the table below.

Table 2: Examples of harmonised classification of hazardous substances pursuant to Regulation (EC) No 1272/2008.

Element	Worst-case compound	Hazard Class	Hazard Statement	Hazard Property
Arsenic	Diarsenic trioxide	Carc. 1A	H350	HP 7
		Acute Tox. 2 *	H300	HP 6
		Skin Corr. 1B	H314	HP 4
		Aquatic Acute 1	H400	HP 14
		Aquatic Chronic 1	H410	HP 14
Benzene	N/A	Flam. Liq. 2	H225	HP 3
		Carc. 1A	H350	HP 7
		Muta. 1B	H340	HP 11
		STOT RE 1	H372 **	HP 5
		Asp. Tox. 1	H304	HP 5
		Eye Irrit. 2	H319	HP 4
		Skin Irrit. 2	H315	HP 4

Once the compositional analysis is carried out, and the worst case compound, hazard statement and hazardous property of every parameter tested are identified, the applicant or a third party acting on his behalf shall determine the concentration of the compound of the respective element/parameter which constitutes a worst-case and then compare this determined concentration to the thresholds stipulated in Schedule 3 of S.L. 549.63 - the Waste Regulations. The waste would be classified as hazardous if it meets the conditions and/or exceeds the concentrations limits referred in Schedule 3 (as per definition provided above).

If chemical analysis results for a parameter under study:

- (i) Exceeds the concentration limits for all the identified hazard statements, the material is classified as hazardous;
- (ii) Does not exceed any concentration limits of the identified hazard statements, the material is classified as non-hazardous; and
- (iii) Exceeds the concentration limits for at least one of the identified hazard statement, the material is classified as hazardous for its related hazardous property.

The compositional analysis together with the HP criteria assessment and/or the content of POPs shall then determine the method of disposal for the tested waste material.

Further to the above, classification of waste should be based on compositional data and leaching test results (*refer to Section 2*) should not be used for determining the hazardous nature of the waste. The only possible exemption from this principle may be in the characterisation of the waste by HP 15.

Section 2 – Landfill Waste Acceptance Criteria (WAC)

In the case that the client intends to dispose of the waste in an engineered landfill, testing in line with the requirements of Council Decision 2003/33/EC establishing criteria and procedures for the acceptance of waste at landfills is required. Details of the testing to be carried out in this regard must also be included within the abovementioned method statement provided to the Authority.

On a general note, in addition to the lab analysis results, the applicant is to provide a review of the results obtained with concluding remarks and the proposed way forward with regards to the management of the waste in question. No actions in relation to the proposed management must be carried out without ERA's approval

END OF PERMIT