

## Environmental Permit

Environment Protection Act (CAP. 549)

Permit number

**EP 0020/17/A**

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:

**Melita Shipyard Ltd.** (hereinafter “the Operator” or “the Permit Holder”),

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

**Melita Marine Group**  
**201,**  
**The Strand**  
**Gzira,**  
**GZR 1023**

(Company registration number: **C 64312**)

to operate an installation at:

**Melita Shipyard Ltd.,**  
**Triq il-Moll tax- Xiprits,**  
**Paola**

**(X coordinates: 55197; Y coordinates: 71115)**

to the extent authorised by and subject to the conditions of this Permit.

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 months prior to expiry of this permit.

| Signed                         | Date                 |
|--------------------------------|----------------------|
| Prof. Victor Axiak<br>Chairman | <u>10 / 04</u> /2018 |

**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>EP application</i> | 11 <sup>th</sup> April 2017 |
| <i>Inspection</i>     | 13 <sup>th</sup> June 2017  |
| <i>Permit Issued</i>  | 10 <sup>th</sup> April 2018 |

#### 1.2 Permitted Activities under the EPA

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

| <b>Table 1.2.1</b>                                                                                     |                                                                                                                                                                          |                                                                                                                                                                                   |
|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Activity</b>                                                                                        | <b>Description of specified activity</b>                                                                                                                                 | <b>Limits of specified activity</b>                                                                                                                                               |
| Works on vessels and associated parts and equipment.                                                   | Docking and undocking, vessel washing, painting, engine maintenance and servicing, repairs, and carpentry.<br><br>(Activity 33.15 according to EC Regulation 1893/2006). | From arrival of vessel and raw materials to completion of associated works in floating dock and within the workshops.                                                             |
| Associated activity of utilities.                                                                      | Fuel, fresh water, grey water, sewage, service/waste tank cleaning                                                                                                       | From emptying of tank either manually or with pressurised water to collection of effluent in IBCs on the quay for removal by permitted contractors.                               |
|                                                                                                        | Blasting activities using abrasive media; soda, garnet and grit                                                                                                          | From utilisation to disposal of spent grit by contractor for disposal at a permitted facility.                                                                                    |
|                                                                                                        | Refuelling activities to fuel tanks on quay and dock generators.                                                                                                         | From entry of road tankers for delivery of diesel, to transfer to fuel tank on quay. From delivery of diesel by bunker barge/ road tanker to delivery to generator tanks on dock. |
| Associated activity of storage, treatment and disposal/recycling of waste materials generated on site. | Handling, storage and treatment of wastes from installation prior to disposal.                                                                                           | From generation of waste to removal from site.                                                                                                                                    |

### 1.3 **Site**

- 1.3.1 The activities authorised under condition 1.2.1 shall not extend beyond the Site boundary, as per Site Map in Schedule 3 to this Permit.

### 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 Occupational Health and Safety Authority, Malta Transport, the Regulator for Energy and Water Services (REWS) and the Planning Authority.
- 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 at the land based facility and on board vessels utilised during the operations, for reference by all staff carrying out work subject to the requirements of the Permit.
- 1.4.4 All persons have a duty of care to protect the environment. The operator shall become familiar with his legal obligations and good environmental practice.
- 1.4.5 The site shall be maintained in a tidy condition, free from litter and waste (whether arising from own activities or external sources).
- 1.4.6 The site must be well secured at all times.
- 1.4.7 The Permit Holder shall maintain a register of third party complaints. The register shall record the name and address of the complainant(s), the date, location, source and nature of the complaint and the corrective action undertaken, where such action proves necessary.
- 1.4.8 A Site Notice shall be installed and displayed in a prominent position such as to be readily visible by the public. The notice shall contain the following information:
- 1.4.8.1 State that the site operates under an Environmental Permit issued by ERA.
- 1.4.8.2 Provide the Permit Number and the name of the Permit holder.
- 1.4.8.3 Provide a 24-hour emergency and telephone number for the Permit holder.
- 1.4.9 All the plant, equipment and technical means used in operating the Permitted Installation shall be maintained in good operating condition and without causing potentially polluting leaks and spillages. The operator shall keep maintenance records.
- 1.4.10 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, in particular on those permit conditions relevant to their duties. All staff shall be provided with adequate training and written operating instructions to enable them to effectively carry out their duties. Training records shall be maintained. Subcontractors who enter the site shall also be made aware of any obligations arising from the permit which might affect their duties. All staff shall be provided with adequate training and written operating instructions to enable them to effectively carry out their duties. Such training shall be recorded.
- 1.4.11 All operations on site are the responsibility of the permit holder and are subject to the conditions of this permit including works carried out by third parties.
- 1.4.12 The Authority may, on the joint application of an operator and a proposed transferee, transfer to the proposed transferee the environmental permit. The transfer of the permit will not relieve any of the operators from his environmental obligations or liabilities.

- 1.4.13 The Authority shall carry out compliance checks that vary in frequency according to the site's compliance with the permit conditions. Any such checks carried out by the Authority may be made at the Permit Holder's financial expense.
- 1.4.14 The Authority's representatives are empowered to inspect every part of the site and ask for any closed or locked areas to be opened. They are also entitled to be given any proof, documentation, plans, receipts or any other records which these Authority representatives may request.
- 1.4.15 The Authority may add, amend, substitute or revoke 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.
- 1.4.16 The validity of this permit is until 10<sup>th</sup> April 2022. The Permit Holder may renew the permit upon application with the Authority 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.
- 1.4.17 This permit is issued against a Bank Guarantee of €19,850 which shall be renewed annually. This guarantee will have to be maintained throughout the lifetime of the permit. Following renewal and/or variations to this permit, the Authority may require amendments to the Bank Guarantee.
- 1.4.18 The Authority may take part or all of the financial guarantee if the Permit Holder fails to take the necessary action, in cases of non-compliance with these permit conditions, the Act or any subsidiary legislation thereof, or in cases where environmental integrity is threatened. This bank guarantee is without prejudice to any environmental liabilities incurred by the operator through failure to adhere with permit conditions. Should the Authority forfeit the Bank Guarantee either in part or in full, the operator shall ensure that this is replenished without undue delay.
- 1.4.19 A copy of this permit should be available at all times at the site office, including any Variation Notices or amendments to it.
- 1.4.20 The Authority may suspend or revoke this environmental permit or part of this environmental permit where significant mismanagement of the site is observed or any of the permit conditions are not respected after a written warning is given by the Authority or in any eventuality that gives the Authority enough reason to revoke this permit.
- 1.4.21 The Authority may request additional monitoring and/or review of the operational practices and commission audits on the installation as deemed necessary to address any circumstances that may affect the quality of the surrounding environment. Any required monitoring and/or audits shall be carried out at the expense of the Permit Holder.
- 1.4.22 Without prejudice to condition 1.4.21, the Authority may take any action deemed necessary including but not limited to the suspension of any activity/operation until investigations are concluded.
- 1.4.23 The Operator shall undertake all necessary measures and precautions to prevent spillage of raw materials, intermediates, products, waste and any other materials.

## 1.5 Improvement Programme

- 1.5.1 The Operator 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 within 10 working days of the completion of each such requirement. The deadlines indicated in Table 1.5.1 shall apply from date of issue of this permit.

| <b>Table 1.5.1: Improvement programme</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                  |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reference</b>                          | <b>Requirement</b>                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Deadline</b>                                                                                                                                  |
| 1.                                        | Implementation of the proposed containment system to be installed on the floating dock following ERA's approval.                                                                                                                                                                                                                                                                                                                                         | Within time-frames agreed upon with the Authority.                                                                                               |
| 2.                                        | Installation of a site notice as per condition 1.4.8.                                                                                                                                                                                                                                                                                                                                                                                                    | Within 1 month of issue of the permit                                                                                                            |
| 3.                                        | Submission of updated waste management plan for the approval of the Authority to be updated with references to ERA and applicable legislation including Cap 549 Environment Protection Act as endorsed by TM.                                                                                                                                                                                                                                            | Within 1 month of the date of issue of the permit                                                                                                |
| 4.                                        | Submission of standard operating procedures with regards to the cleaning carried out on the dock prior to undocking of the vessel.                                                                                                                                                                                                                                                                                                                       | Within 1 month of issue of the permit                                                                                                            |
| 5.                                        | Construction/ installation of secondary containment for the paint store/s and IBCs containing liquid waste on site.<br><br>This shall also include certification of the containment/ bund capacity, from a third party warranted engineer, to ensure that the capacity of the bund is a minimum of 110% of the largest tank within the bund or 25% of the total capacity of all the tanks within the bund whichever is greater, as well as permeability. | Construction/ installation within 2 months of the date of issue of the permit.<br><br>Certification within 1 month of construction/ installation |
| 6.                                        | Submission of updated site layout plan showing the location of storage of waste grit pending collection for disposal.                                                                                                                                                                                                                                                                                                                                    | Within 2 months of issue of the permit                                                                                                           |
| 7.                                        | To install plastic sheet curtains for containment in steel workshop                                                                                                                                                                                                                                                                                                                                                                                      | Within 2 months of the date of issue of the permit.                                                                                              |
| 8.                                        | The operator shall submit a copy of the Sewer Discharge Permit to the Authority*.                                                                                                                                                                                                                                                                                                                                                                        | Within 3 months of the date of issue of the permit                                                                                               |
| 9.                                        | A monitoring proposal for discharges to sea as per Condition 2.2.13 to the Authority for approval.                                                                                                                                                                                                                                                                                                                                                       | Within 3 months of the date of issue of the permit                                                                                               |
| 10.                                       | Implementation of the effluent monitoring exercise following ERA's approval and submission of results.                                                                                                                                                                                                                                                                                                                                                   | Within time-frames agreed upon with the Authority.                                                                                               |
| 11.                                       | A third party warranted engineer's report covering all the diesel fuel storage areas showing how they are constructed with bunds in accordance with condition 2.6.1                                                                                                                                                                                                                                                                                      | Within 6 months of the date of issue of the permit                                                                                               |

\*to be enforced by relevant Authority/Entity.



## 1.6 Operational Changes

- 1.6.1 The operator 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:
- 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;
  - Any relevant supporting information (e.g. chemical/fuel consumption, technical details, changes in the type/use of substances/mixtures, etc.);
  - Any relevant supporting assessments and drawings, and;
  - The proposed implementation date.

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

- 1.6.2 The Permit Holder shall give written notification as soon as practicable prior to any of the following:-

1.6.2.1 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and

1.6.2.2 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 1.6.2.1.

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

1.6.3.1 any change in the Permit Holder's trading name, registered name or registered office address;

1.6.3.2 any change to particulars of the Permit Holder's ultimate holding company (including details of an ultimate holding company where a Permit Holder has become a subsidiary).

## 2 Operating Conditions

### 2.1 Emissions to Air

- 2.1.1 All processes which generate significant levels of airborne contaminants (such as dusts, toxic gases, odour chemicals) shall have effective local collection and shall discharge (after treatment where necessary) through a stack or vent located and/or designed in such a way to minimise impact on human health and the environment or as otherwise agreed upon with the competent Authority.

- 2.1.2 Emissions to air shall only arise from the emission point sources in Table 2.1.1 as per plan in schedule 3.

| <b>Table 2.1.1 : Emission points to air</b> |                             |
|---------------------------------------------|-----------------------------|
| <b>Emission point reference</b>             | <b>Source</b>               |
| PS 1                                        | Generator 1                 |
| PS 2                                        | Generator 2                 |
| PS 3                                        | Generator 3                 |
| PS 4a                                       | Floating dock spraying area |
| PS 4b                                       | Spray booth 1               |
| PS 4c                                       | Spray booth 2               |



- 2.1.3 The operator shall submit certification for the generators referred to Table 2.1.1 from an independent warranted engineer every 4 years or one year prior to the expiry of the permit, whichever comes first. The certification shall be submitted as part of the Annual Environmental Report (AER).
- 2.1.4 Generator 3, and any further industrial combustion plants (i.e. generators) which are not in operation shall only be brought into operation following submission to the Authority of a valid certificate issued by a third party warranted engineer indicating that the equipment is in good working order.
- 2.1.5 The Authority may request emissions monitoring from generators and any other combustion plants as deemed necessary.
- 2.1.6 Industrial combustion plants (e.g. boilers, generators, etc.) shall be compliant with the provisions of S.L. 549.50, Ambient Air Quality Regulations, and any other applicable subsidiary legislation.
- 2.1.7 Any preparatory work for spraying or painting activities which could generate any airborne contaminants shall be carried out in a contained environment which shall be no less effective than a fully enclosed thermoplastic cover, where relevant.
- 2.1.8 Carpentry works and engine maintenance shall only take place within the vessel itself or within workshops on the quay where appropriate containment of emissions can be ensured.
- 2.1.9 In instances where maintenance of the floating dock itself are required to be undertaken The operator shall submit a written request together with a method statement for ERA's approval prior to any works including but not limited to blasting and/or spray painting. Works shall not commence until approved by the Authority.
- 2.1.10 The operator shall inform the Authority in advance should he/she intend to use any additional VOC solvents as per S.L. 549.79 which because of their content of volatile organic compounds, are classified as carcinogens, mutagens, or toxic to reproduction, and are assigned or need to carry the hazard statements H340, H341, H350, H350i, H351, H360D or H360F (or the risk phrases R40, R45, R46, R49, R60, R61 or R68). In this case, ERA may set emission limits for these substances and monitoring requirements. The Operator shall prevent or where that is not practicable reduce fugitive emissions of substances to air from the Permitted Installation.
- 2.1.11 In the case of breakdown or equipment malfunction, the Operator shall reduce or close operations as soon as practical until normal operation can be restored.
- 2.1.12 In the event of malfunction or breakdown leading to abnormal emissions, the Operator must:
- a) Investigate immediately and undertake corrective action, and
  - b) Adjust the process or activity to minimise those emissions, and
  - c) Record the events and actions taken.
  - d) In the event of non-compliance causing immediate danger to the environment, operation of the activity must be suspended and the Competent Authority informed within 24 hours.
- 2.1.13 Further to condition 2.1.11, the operator shall, at the written request of the Authority and within 10 working days, identify the specific cause of the of the abnormal emission and examine means for its elimination or minimisation including:
- a. Relocating / redesigning /extending the stack(s) or vent(s) to a point where the issue is minimised.
  - b. Replacement of fuel.

- c. Preventative measures such as replacement of process materials (e.g. odorous solvents) by more environmentally sensitive compounds.
- d. Improved storage of materials.
- e. Use of additional abatement measures.

2.1.14 All abatement equipment and ducting shall be cleaned and maintained on a regular basis, and record of such maintenance is to be kept in accordance with Condition 3.1 of this permit.

2.1.15 The Operator shall prevent or where that is not practicable reduce fugitive emissions of substances to air from the Permitted Installation. Any alternative techniques to be applied by the Operator shall be no less effective than those applied within the installation, namely the use of the thermoplastics, and shall be approved in writing by the Authority prior to their implementation.

## 2.2 Effluent Discharges

2.2.1 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.

2.2.2 The operator shall not allow the introduction into groundwater of any substance included in the Regulations for the Protection of Groundwater against pollution and deterioration (S.L. 549.53). The operator shall also not allow any discharges to groundwater for substances other than those specified in the Regulations unless specifically permitted by the Competent Authority.

2.2.3 The effluent discharged shall not contain any scum, foam, particulates or other residual matter.

2.2.4 Any hull cleaning operations involving blasting activities, the permit holder shall submit a paint certificate to the Authority indicating that the vessel is free from TBT. No such activity shall commence until an approval is received from the Authority.

2.2.5 All activities involving the release of material which could contaminate surface or sea water are to be carried out in an enclosed and controlled environment and followed by a thorough clean-up of the area where such activity took place.

2.2.6 Discharges to the marine environment shall only take place through the discharge points specified in Table 2.2.1, as per plan in Schedule 3.

| <b>Table 2.2.1: Emission point to marine environment</b> |                                                |                                            |
|----------------------------------------------------------|------------------------------------------------|--------------------------------------------|
| <b>Emission Point Reference<sup>i</sup></b>              | <b>Source</b>                                  | <b>UTM coordinates (Easting, Northing)</b> |
| E1                                                       | Freshwater from vessel washing                 | 35°52'55.16" N<br>14°30'9.45" E            |
|                                                          | Effluent from dock cleaning prior to undocking |                                            |
| E2                                                       | Rainwater runoff from dock                     | 35°52'51.66" N<br>14°30'10.64" E           |

2.2.7 The operator is to keep a record of days when discharge from the effluent points in table 2.2.1 is carried out and the volume of effluent discharged from the emission point.

<sup>i</sup> According to Section 6 of the application

- 2.2.8 No maintenance activities (involving oils, chemicals, lubricants and fuels), washing or refuelling shall be carried out on the quay. All such activities are to occur in other sites permitted for such work.
- 2.2.9 No antifouling paint chips or biological material shall be released into the sea.
- 2.2.10 The Authority may request the operator to install further mitigation measures if deemed necessary or if the mitigation measures installed are not deemed to be sufficient. .
- 2.2.11 Containment booms shall be deployed at all times during works carried out within and on the floating dock.

### **Monitoring of physico-chemical analyses**

- 2.2.12 Discharges to the marine environment shall comply with the emission limit values in Schedule 4 as total concentrations in the sample.
- 2.2.13 Within three (3) months of issue of this permit, the Operator shall submit a monitoring proposal aimed at carrying out analyses for the parameters in Schedule 4 over a period of 12 months from the validity of the permit, in order to characterise the effluent being discharged from points E1 and E2 and ambient water quality. In order for the data from this exercise to be statistically analysed, the operator is required to take a minimum of 2 samples during a 12 month period and that each sample includes a minimum of 2 replicates. The methodologies to be utilised and the associated detection limits shall be indicated as part of the monitoring proposal. No monitoring shall take place during or immediately after rainfall episodes or until such time that any runoff evidently generated by the rain has completely drained off.
- 2.2.14 Monitoring from E1 and E2 shall be carried out during both of the following activities:
  - 2.2.14.1 Vessel washing following docking
  - 2.2.14.2 Cleaning of the dock prior to undocking of vessel
- 2.2.15 Another monitoring exercise for ambient water quality shall take place when the dock tanks are completely filled with sea-water and the vessel is floating and ready to exit the dock. Monitoring shall take place following the execution of at least all the following activities on the same vessel: blasting, painting and washing.
- 2.2.16 Following approval of the monitoring proposal by the Authority, the Operator shall carry out the requested monitoring within time frames agreed upon by the Authority.
- 2.2.17 Based on the results obtained, the Authority may amend the list of parameters to be monitored during the next reporting period.
- 2.2.18 The above limits may be subject to revision by the Authority, as deemed necessary. These limits shall not be used as means of selecting the detection limits of the equipment or analytical method to be used.
- 2.2.19 The results obtained from the characterisation exercise may require the operator to submit an action programme to the Authority aimed at reducing the emission limits of certain parameters. This requirement shall be communicated by the Authority if deemed necessary.
- 2.2.20 The operator shall ensure that any sampling and chemical analysis is carried out by a laboratory accredited to at least EN ISO 17025:2005/Corr 1:2006 and preferably for each and every test listed in Schedule 4. The operator shall include a copy of the laboratory's accreditation certification monitoring proposal required by condition 2.2.13.
- 2.2.21 The operator shall analyse for the parameters in Schedule 4 using standard methods that are in line with Articles 3 and 4 of Commission Directive 2009/90/EC. 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. In the case of monitoring through use of multi-parametric probes, these are to be calibrated as per instrumentation standard. Copy of latest calibration certification is to be submitted to the Authority together with the monitoring results.

- 2.2.22 The effluent monitoring results shall be submitted as part of the Annual Environmental Report which shall be submitted to the Authority. Moreover, reporting as part of the AER and the E-PRTR report shall include such discharges. The information contained in this report shall be prepared in accordance with the format specified in Schedule 2 and include information on the sampling process, timing and method.
- 2.2.23 For the priority hazardous substances (indicated with an "X" in column 5 of the table in Schedule 4), the operator shall ensure that there is no detection of these substances from the Installation by 2020.
- 2.2.24 Should exceedances of the emission limit values be recorded in more than one sample over a year, the operator shall increase the frequency of the sampling of that specific substance per month. The increase in monitoring shall be reflected in a revised monitoring programme that is to be approved by the Authority.
- 2.2.25 Following the submission of the results, the Authority may request an action programme aimed at achieving the emission limit values for any confirmed exceedances in those specified in Schedule 4. Alternatively the operator may designate a mixing zone for any of the substances following the procedures specified in Regulation 8(b) "Mixing Zones" in S.L. 549.100.
- 2.2.26 No ballast water shall be discharged from the vessel whilst undergoing work on the floating dock.

### **Management of rainwater**

- 2.2.27 Rainwater shall be segregated from all process areas that are potentially contaminated with chemicals. Rainwater from areas where contamination by oil or chemicals is likely shall pass through an adequately sized oil-water interceptor or other suitable mitigation equipment approved by the Authority.
- 2.2.28 Areas where contamination is likely to occur are to be segregated from non-contaminated areas.
- 2.2.29 Areas from where offsite wastes are transported during rainfall are to be cleared on a regular basis.
- 2.2.30 The Operator shall undertake all necessary measures and precautions to prevent spillage of raw materials, intermediates, products, waste and any other materials.

## **2.3 Emissions to Land**

- 2.3.1 No emissions from the Permitted Installation shall be made to land.
- 2.3.2 In the event of accidental contamination of land, the operator shall notify the Authority within 24 hours, forward a decontamination plan for the Authority's approval and execute it within an agreed time frame.

## **2.4 Refuelling Operations**

- 2.4.1 Refuelling activities shall be supervised at all times by personnel who are fully conversant with refuelling procedures as relevant to their duties.
- 2.4.2 In case of spillages, the relevant enforcing Authority(ies) shall be informed by the Operator, including but not limited to TM, ERA and CPD.
- 2.4.3 Small leaks or spills shall be cleared up immediately by the application of an absorbent material. All sand or other material shall not be exposed to a source of ignition and shall be disposed of as approved by the responsible authority.
- 2.4.4 The operator shall take all necessary procedures to investigate the operations which are likely to cause an accident, fire, explosion or leak and to investigate.
- 2.4.5 If the operator makes use of a flexible pipe to deliver the fuel, the operator shall ensure that the following conditions are observed:
  - 2.4.5.1 The delivery end of the pipe is fitted with a pump or valve that closes automatically when not in use.
  - 2.4.5.2 The valve or pump must be lockable and must be kept so when not in use. 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

## **2.5 Waste**

### **Waste Storage and handling**

- 2.5.1 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).
- 2.5.2 All wastes shall be stored within a designated and controlled storage area(s) prior to ultimate disposal.
- 2.5.3 Wastes to be recycled shall be stored in a designated container or area and shall not be mixed with other wastes.
- 2.5.4 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 which shall be appropriately contained to ensure no contamination of the environment in case of spillage. Wastes of different natures shall not be mixed in the same container.
- 2.5.5 No storage of waste destined for disposal is permitted for a period exceeding 12 months.
- 2.5.6 No storage of waste destined for recovery is permitted for a period exceeding 3 years.
- 2.5.7 No storage of waste, equipment or materials is permitted on property outside the site premises.
- 2.5.8 Packaging material which came into contact with hazardous substances shall be regarded as hazardous waste and stored in dedicated waste management areas.
- 2.5.9 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.

- 2.5.10 All waste produced during the cleaning and maintenance of underwater vessel parts shall be treated as hazardous waste, unless proven otherwise by the operator (e.g. marine fouling removed from unpainted parts namely the propeller).
- 2.5.11 Further to condition 2.5.10, during any cleaning operation, the operator may be instructed by the Authority to engage an environmental consultant to take samples of the marine growth on the vessel before and/or after collection. The operator may be asked to carry out a species identification exercise as well as chemical analysis of the fouling removed.

### **Vessel Generated Waste**

- 2.5.12 The Operator shall only give access to their Terminal to waste carriers holding a valid permit by the Authority
- 2.5.13 The Operator shall require the vessel owners to provide the following information prior to the movement of waste:
- A list of wastes (categorised as per EWC codes) to be unloaded from the vessel which shall include the weight of the waste;
  - The GBR number of the waste carriers contracted to transport such waste.
- 2.5.14 A copy of the information indicated in condition 2.5.13 shall be kept at the Security Gate so as to ensure that only waste carriers registered to transport the declared waste (categorised as per EWC code) are given access to the Terminal.
- 2.5.15 The information indicated in condition 2.5.13 shall be retained by the Operator for a period of 3 years.

### **Waste recovery or disposal**

- 2.5.16 On-site disposal of wastes by any means including burning, disposal to drain or surface water, burying or deposition on land is prohibited.
- 2.5.17 Waste generated from activities within the dock is to be considered as hazardous waste and disposed of accordingly unless directed otherwise in writing by the Authority.
- 2.5.18 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.
- 2.5.19 Movement of hazardous waste to authorised facilities shall be covered by a valid consignment permit obtainable from the Authority. Each movement shall also be covered by a consignment note obtainable from the Authority.
- 2.5.20 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.
- 2.5.21 The Permit Holder shall ensure to keep records for every consignment of wastes 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.

- 2.5.22 Disposal certificates shall be kept on record and made available for inspection for a period of at least 3 years from date of their issue.

## **2.6 Storage**

- 2.6.1 Containers for bulk fuel, oil, chemicals and liquid waste storage 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. The capacity of the bund shall be a minimum of 110% of the largest tank within the bund or 25% of the total capacity of all the tanks within the bund, whichever is greater and shall be impermeable. All filling and off-take points shall be located within the bund.
- 2.6.2 Drainage of water collected in bunds shall be carried out under constant supervision. Discharge from banded areas where there is a visible film of oil in the bund water shall be diverted for collection and disposal with other oil-contaminated wastewater at a permitted facility.
- 2.6.3 Any valves on bunds shall be maintained in a closed position except during bund drainage. The operator shall ensure that all offset fill points are fitted with locks, taps or valves that are permanently fixed. These must be locked shut when not in use.
- 2.6.4 Drums and containers of solvents, oils or any other chemicals shall be stored in designated and secure storage areas. Storage areas shall be banded or otherwise designed so that surface and ground waters cannot be contaminated by spillages.
- 2.6.5 Chemicals of different properties shall be stored and handled as specified in respective MSDS sheets. Such sheets shall be made available and accessible to personnel responsible for the management of the storage areas and for inspection by the Competent Authority. Incompatible chemicals shall not be stored within the same bund.

## **2.7 Ozone Depleting Substances and Fluorinated Greenhouse Gases**

- 2.7.1 No new equipment or components (including refrigeration and fire fighting equipment or insulation foam) containing substances falling within the scope of EC Regulation No. 1005/2009 on substances that deplete the Ozone Layer & S.L. 549.58 on substances that deplete the Ozone Layer, regulations 2007, shall be installed within the site.
- 2.7.2 For all new equipment installed on site utilising Fluorinated Greenhouse Gases, information pertaining to installation, maintenance and servicing shall be provided as prescribed in Schedule 2 when any equipment is replaced by new equipment, the authority shall be notified in this regard and details provided on the new equipment installed.

## **2.8 Accident Prevention and Control**

- 2.8.1 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 operator 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. The emergency plan shall indicate that accidental releases of chemicals and fires caused by chemicals are to be managed as specified in the respective MSDS sheets.

- 2.8.2 The Emergency Response Plan shall be updated whenever necessary and the updated version sent by the Permit Holder to the Civil Protection Department for their perusal/clearance. This may need to be updated from time to time as required by the Civil Protection Department.
- 2.8.3 In the case of an accident (including fire, chemical spills, etc.), the Operator shall follow the Emergency Response Plan referred to in Condition 2.8.1 and, in the case that such accident could cause environmental damage, the Operator shall notify TM, Civil Protection Department and the Authority immediately. Spillages of chemicals or other hazardous material 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.
- 2.8.4 The operator shall have in storage an adequate supply of containment booms, skimmers and suitable absorbent material to absorb any spillage either on land or into the marine environment.
- 2.8.5 In the eventuality of a Tier I oil spill, the operator shall ensure that any third parties contracted out are informed as soon as possible. In the case of a Tier II or Tier III spill, the operator is to follow the procedures which are detailed in the National Contingency Plan and advise Transport Malta accordingly.

## **2.9 Closure and Decommissioning**

- 2.9.1 In the event of cessation of operations on the site, all wastes (including machinery and associated equipment) and hazardous materials (including fuels and chemicals) must be removed from the site such that any pollution risk is avoided and the site is returned to a satisfactory state. The Operator shall notify the Authority immediately upon a decision being taken to cease operations. In the case of full decommissioning, applicant shall submit a decommissioning plan in accordance with the terms of reference provided by the Authority for approval by the relevant Authorities. Surrender of the permit will be accepted following decommissioning as per agreed method statement and following confirmation that all necessary actions have been taken and records required by the Authority have been submitted.

## **2.10 Management and Technically Competent Person**

- 2.10.1 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 should be individually aware of their responsibilities and liabilities in observing the conditions of this permit.
- 2.10.2 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.
- 2.10.3 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 and that unauthorised waste does not enter the site.
- 2.10.4 In the event of any short or long periods of sick leave or vacation leave taken by the TCP for a period exceeding 10 days, the Operator is obliged to find a replacement for that member of staff without delay.
- 2.10.5 All the staff on site should be fully aware of the procedures to be taken to contain any environmental hazard which may arise related to the activities being carried out on site.



### **3 Records**

- 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
  - 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 other location agreed by the Authority in writing, for a minimum period of 5 years from the date when the records were made, unless otherwise agreed in writing.
- 3.2 A daily operations log should be kept on site in which the following information shall be recorded on a daily basis:
- 3.2.1 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.
  - 3.2.2 Any maintenance and inspections carried out on machinery and equipment.
  - 3.2.3 Complaints on the permitted facility originating from third parties or regulatory bodies including details about the location of origin.
  - 3.2.4 Days when discharge from the effluent points in table 2.2.1 is carried out and the volume of effluent discharged from the emission point.
  - 3.2.5 Waste disposal certificates as per conditions 2.5.21 and 2.5.22.
- 3.3 Each record shall be compiled within 24 hours of the relevant event. The records kept the daily operations log shall be available for inspection at any time when the Authority representatives request to inspect them.

### **4 Reporting**

- 4.1 All reports and written and/or verbal notifications required by this Permit shall be made and sent to the Authority using the contact details notified in writing to the Operator by the Authority. Any verbal notifications shall be followed up in writing.
- 4.2 The Operator 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.
- 4.3 The Operator shall keep a log of the VOC solvents consumed annually and report it accordingly in the AER.
- 4.4 Further to condition 4.3, in the event that the installations' VOC solvent consumption exceed 15 tonnes per year, the Authority shall be notified immediately in view of the applicability of S.L. 549.79, Industrial Emissions (Limitation of Emissions of Volatile Organic Compounds) Regulations, 2013.
- 4.5 The European Pollutant Release and Transfer Register (E-PRTR) report for the installation shall be submitted as part of the Annual Environment Report, by end of March of each year,

or as required by Legislation. All quantities shall be reported even when these do not exceed the thresholds mentioned in EC Regulation 166/2006. The format used for reporting shall be that established by Legislation, notably S.L. 549.47, as may be amended from time to time.

## **5 Notifications**

- 5.1 The Operator shall notify the Authority without delay of:-
- 5.1.1 the detection of an emission of any substance which exceeds any limit or criterion in this Permit specified in relation to the substance;
  - 5.1.2 the detection of any fugitive emission which has caused, is causing or may cause exceedances of the emission limit values stipulated in the permit;
  - 5.1.3 the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause exceedances of the emission limit values stipulated in the permit; and
  - 5.1.4 any accident which has caused, is causing or has the potential to cause exceedances of the emission limit values stipulated in the permit.
- 5.2 When submitting notifications under 5.1, the operator shall send the following to the Authority:-
- 5.2.1 the information listed in Schedule 1 to this Permit within 24 hours of such notification; and
  - 5.2.2 the information listed in Table S2.5.1 of Schedule 2 and such information shall be in accordance with that Schedule as part of the AER.
- 5.3 The Operator shall give written notification as soon as practicable prior to any of the following:-
- 5.3.1 permanent cessation of the operation of part or all of the Permitted Installation;
  - 5.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
  - 5.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.3.2.
- 5.4 The Operator shall notify the following matters to the Authority in writing within 10 working days of their occurrence:-
- 5.4.1 any change in the Operator's trading name, registered name or registered office address;
  - 5.4.2 any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary).

## Schedule 1

### Notification of abnormal emissions

This page outlines the information that the Operator must provide to satisfy conditions 5.1. and 5.2 of this Permit.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality.

#### Part A

|                               |  |
|-------------------------------|--|
| Permit Number                 |  |
| Name of Operator              |  |
| Location of Installation      |  |
| Location of the emission      |  |
| Time and date of the emission |  |

| Substance(s) emitted | Media<br>(e.g. air,<br>groundwater) | Best estimate of the<br>quantity or the rate of<br>emission (include units) | Time between<br>which the<br>emission took<br>place |
|----------------------|-------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------|
|                      |                                     |                                                                             |                                                     |
|                      |                                     |                                                                             |                                                     |
|                      |                                     |                                                                             |                                                     |

|                                                               |  |
|---------------------------------------------------------------|--|
| Measures taken, or intended to be taken, to stop the emission |  |
|---------------------------------------------------------------|--|

#### Part B

|                                                                                                                                                                 |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Any more accurate information on the matters for notification under Part A.                                                                                     |  |
| Measures taken, or intended to be taken, to prevent a recurrence of the incident.                                                                               |  |
| Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment or harm which has been or may be caused by the emission. |  |
| The dates of any unauthorised emissions from the installation in the preceding 24 months.                                                                       |  |

|                                    |  |
|------------------------------------|--|
| Name <sup>i</sup> of TCP/ delegate |  |
| Post                               |  |
| Signature                          |  |
| Date                               |  |

<sup>i</sup> authorised to sign on behalf of Operator

## Schedule 2

### Annual Environmental Report

**Important note**

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

**S2.1 Introduction**

|                                             |  |
|---------------------------------------------|--|
| Permit Number                               |  |
| Reporting Year                              |  |
| Name and location of Site                   |  |
| Brief description of activities at the site |  |

**S2.2 Fuel consumption**

| Equipment <sup>i</sup> | Fuel type | Sulphur Content of Fuel <sup>ii</sup> | Fuel Consumption | Units  |
|------------------------|-----------|---------------------------------------|------------------|--------|
|                        |           |                                       |                  | tonnes |
|                        |           |                                       |                  | tonnes |
|                        |           |                                       |                  | tonnes |
|                        |           |                                       |                  | tonnes |

**S2.3 VOC Solvent consumption**

| Year | Total VOC consumption of solvents containing VOCs |
|------|---------------------------------------------------|
|      |                                                   |
|      |                                                   |

**S2.4 Waste****S2.4.1 Off-site transfers and exports of hazardous waste**

| Date of transfer | EWC Code <sup>iii</sup> | Quantity of waste (in kg) | TFS/CP number | Ultimate destination |
|------------------|-------------------------|---------------------------|---------------|----------------------|
|                  |                         |                           |               |                      |
|                  |                         |                           |               |                      |
|                  |                         |                           |               |                      |
|                  |                         |                           |               |                      |
|                  |                         |                           |               |                      |

<sup>i</sup> E.g. Boiler, generator, vehicles etc.

<sup>ii</sup> Specify units (e.g. as percentage, or mg/kg)

<sup>iii</sup> European Waste Catalogue Code (<http://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:02000D0532-20150601&qid=1475495799963&from=EN>)

## S2.4.2 Transport of Waste

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

## S2.5 Data on Ozone depleting substances & Fluorinated greenhouse gases.

### S2.5.1 Registration of equipment

| Equipment code       | Type of equipment | Use | Charge |                      | Type of substance |
|----------------------|-------------------|-----|--------|----------------------|-------------------|
|                      |                   |     | Kg     | CO <sub>2</sub> (eq) |                   |
| EQ 1                 |                   |     |        |                      |                   |
| EQ 2                 |                   |     |        |                      |                   |
| EQ 3                 |                   |     |        |                      |                   |
| EQ 4                 |                   |     |        |                      |                   |
| Continue as required |                   |     |        |                      |                   |

### S2.5.2 Maintenance Schedule<sup>i</sup>

| Data Submitted for each scheduled inspection <sup>ii</sup>                      | Equipment Code |      |      |      |      |      |      |                      |
|---------------------------------------------------------------------------------|----------------|------|------|------|------|------|------|----------------------|
|                                                                                 | EQ 1           | EQ 2 | EQ 3 | EQ 4 | EQ 5 | EQ 6 | EQ 7 | Continue as required |
| Date of inspection                                                              |                |      |      |      |      |      |      |                      |
| All amounts of leakages detected (in Kg/ CO <sub>2</sub> equiv <sup>iii</sup> ) |                |      |      |      |      |      |      |                      |
| Actions taken to eliminate such leakages                                        |                |      |      |      |      |      |      |                      |
| Quantity and nature of the substances involved                                  |                |      |      |      |      |      |      |                      |
| Serial number of the personnel involved                                         |                |      |      |      |      |      |      |                      |
| Quantities added <sup>iv</sup> and/or recovered (in Kg/ CO <sub>2</sub> equiv). |                |      |      |      |      |      |      |                      |

<sup>i</sup> (a) for equipment that contains fluorinated greenhouse gases in quantities of 5 tonnes of CO<sub>2</sub> equivalent or more, but of less than 50 tonnes of CO<sub>2</sub> equivalent: at least every 12 months; or where a leakage detection system is installed, at least every 24 months; (b) for equipment that contains fluorinated greenhouse gases in quantities of 50 tonnes of CO<sub>2</sub> equivalent or more, but of less than 500 tonnes of CO<sub>2</sub> equivalent: at least every six months or, where a leakage detection system is installed, at least every 12 months; (c) for equipment that contains fluorinated greenhouse gases in quantities of 500 tonnes of CO<sub>2</sub> equivalent or more: at least every three months or, where a leakage detection system is installed, at least every six months.

<sup>ii</sup> Table to be repeated for every scheduled inspection as per 'footnote 1' above.

<sup>iii</sup> Carbon Dioxide equivalent – use Annex 1 and Annex IV of EC517/2014 for calculation..

<sup>iv</sup> The quantities of added fluorinated greenhouse gases are from recycled or reclaimed stocks, please include the name and address of the recycling or reclamation facility and, where applicable, the certificate number

## S2.6 Incidents and Complaints

### S2.6.1 Non-Compliance Incidents during Reporting Period

| Date of incident | Brief description of Incident | Cause | Corrective action |
|------------------|-------------------------------|-------|-------------------|
|                  |                               |       |                   |
|                  |                               |       |                   |
|                  |                               |       |                   |
|                  |                               |       |                   |

Total number of non-compliance incidents for previous year:

|  |
|--|
|  |
|--|

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

|  |
|--|
|  |
|--|

### S2.6.2 Complaints made by the public or through Authority

| Date of complaint | Description of complaint | Actions taken |
|-------------------|--------------------------|---------------|
|                   |                          |               |
|                   |                          |               |
|                   |                          |               |
|                   |                          |               |

Total number of complaints for previous year:

|  |
|--|
|  |
|--|

Total number of complaints for current reporting period:

|  |
|--|
|  |
|--|

## S2.7 Submission of certifications and documentation

| Condition Number  | Documentation                                                                                                                                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.5.1             | Improvement Programme Items as per Table 1.5.1                                                                                                                                                                                                                                          |
| 2.2.20 and 2.2.21 | Submission of the effluent monitoring results along with a copy of the latest calibration certification.                                                                                                                                                                                |
| 2.2.19            | The results obtained from the characterisation exercise may require the operator to submit an action programme to the Authority aimed at reducing the emission limits of certain parameters. This requirement shall be communicated by the Authority if deemed necessary.               |
| 2.1.3             | Submission of certification for the generators referred to Table 2.1.1 from an independent warranted engineer every 4 years or one year prior to the expiry of the permit, whichever comes first. The certification shall be submitted as part of the Annual Environmental Report (AER) |
| 4.2               | Submission of Annual Environmental Report                                                                                                                                                                                                                                               |
| 4.3               | Submission of a log of the VOC solvents consumed annually                                                                                                                                                                                                                               |
| 4.5               | Submission of E-PRTR data                                                                                                                                                                                                                                                               |

### Applicant'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)*

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### Schedule 3 Site Plan

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**Figure S1:** The area outlined in red denotes the permitted site. The extent of the site boundary is indicative and should not be used for interpretation purposes.



## Schedule 4

### List of Priority Substances and Certain other Pollutants

The emission limit values set up in this schedule are expressed as total concentrations in the whole water sample.

| Table 2.2.2 : Emission limits to the marine environment |                                                                                         |            |                                     |                                            |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------|------------|-------------------------------------|--------------------------------------------|
| (1)                                                     | (2)                                                                                     | (3)        | (4)                                 | (5)                                        |
| No                                                      | Parameter                                                                               | CAS number | Annual average Emission Limit Value | Identified as priority hazardous substance |
| 1                                                       | Flow                                                                                    | -          | -                                   |                                            |
| 2                                                       | pH                                                                                      | -          | 6-10                                |                                            |
| 3                                                       | Temperature                                                                             | -          | 8°C above sea water                 |                                            |
| 4                                                       | Biological Oxygen Demand (BOD <sub>5</sub> at 20°C) without nitrification <sup>10</sup> | -          | 25 mg/L O <sub>2</sub>              |                                            |
| 5                                                       | Chemical Oxygen Demand (COD) <sup>11</sup>                                              | -          | 125 mg/L O <sub>2</sub>             |                                            |
| 6                                                       | Total Suspended Solids <sup>12</sup>                                                    | -          | 35 mg/L                             |                                            |
| 7                                                       | Anthracene                                                                              | 120-12-7   | 0.1 µg/L                            | X                                          |
| 8                                                       | Arsenic                                                                                 | 7400-38-2  | 5 µg/L                              |                                            |
| 9                                                       | Benzene                                                                                 | 71-43-2    | 8 µg/L                              |                                            |
| 10                                                      | Cadmium                                                                                 | 7440-43-9  | 0.2 µg/L                            | X                                          |
| 11                                                      | C10-13 Chloroalkanes                                                                    | 85535-84-8 | 0.4 µg/L                            | X                                          |
| 12                                                      | Chromium                                                                                | 7440-47-3  | 0.5 mg/L                            |                                            |
| 13                                                      | Copper                                                                                  | 7440-50-8  | 0.5 mg/L                            |                                            |
| 14                                                      | Lead                                                                                    | 7439-92-1  | 1.3 µg/L                            |                                            |
| 15                                                      | Mercury                                                                                 | 7439-97-6  | 0.05 µg/L                           | X                                          |
| 16                                                      | Nickel                                                                                  | 7440-02-0  | 8.6 µg/L                            |                                            |
| 17                                                      | Naphthalene                                                                             | 202-049-5  | 2 µg/L                              |                                            |
| 18                                                      | Fluoranthene                                                                            | 205-912-4  | 0.0063 µg/L                         |                                            |
| 19                                                      | Polyaromatic hydrocarbons (PAH) <sup>13</sup>                                           |            |                                     |                                            |
|                                                         | Benzo(a)pyrene                                                                          | 50-32-8    | 1.7 x 10 <sup>-4</sup> µg/L         | X                                          |
|                                                         | Benzo(b)fluor-anthene                                                                   | 205-99-2   |                                     | X                                          |
|                                                         | Benzo(k)fluor-anthene                                                                   | 207-08-9   |                                     |                                            |
|                                                         | Benzo(g,h,i)-perylene                                                                   | 191-24-2   |                                     |                                            |
| Indeno(1,2,3-cd)-pyrene                                 | 193-39-5                                                                                |            |                                     |                                            |
| 20                                                      | Polychlorinated biphenyls                                                               | 1336-36-3  | 3 µg/L                              |                                            |
| 21                                                      | Tin                                                                                     | 7440-31-5  | 1 mg/L                              |                                            |
| 22                                                      | Vanadium                                                                                | 7440-62-2  | 4mg/L                               |                                            |
| 23                                                      | Tributyltin compounds (Tributyltin-cation)                                              | 36643-28-4 | 0.0002 µg/L                         | X                                          |
| 24                                                      | Zinc                                                                                    | 7440-66-6  | 0.5 mg/L                            |                                            |
| 25                                                      | Chlorine dioxide and oxidants                                                           | -          | 0.3 mg/L                            |                                            |

<sup>10</sup> Reference method of measurement: Homogenized, unfiltered, undecanted sample. Determination of dissolved oxygen before and after five-day incubation at 20°C ± 1°C, in complete darkness, Addition of a nitrification inhibitor.

<sup>11</sup> Reference method of measurement: Homogenized, unfiltered, undecanted sample Potassium dichromate.

<sup>12</sup> EN 872:2005.

<sup>13</sup> For the group of priority substances of polyaromatic hydrocarbons (PAH), the ELV in water refers to the concentration of Benzo(a)pyrene, on the toxicity of which it is based. Benzo(a)pyrene can be considered as a marker for the other PAHs, hence only Benzo(a)pyrene needs to be monitored.

|    |                              |            |             |  |
|----|------------------------------|------------|-------------|--|
|    | (given as chlorine)          |            |             |  |
| 26 | Total Nitrogen <sup>14</sup> | -          | 10 mg/L     |  |
| 27 | Total Phosphorus             | -          | 1 mg/L      |  |
| 28 | Total Petroleum Hydrocarbons | -          | 5 mg/L      |  |
| 29 | Pentachlorophenol            | 87-86-5    | 0.4 µg/L    |  |
| 30 | Cybutryne                    | 28159-98-0 | 0.0025 µg/L |  |

END OF PERMIT

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<sup>14</sup> Total nitrogen means: the sum of total Kjeldahl nitrogen (organic N + NH<sub>3</sub>) nitrate (NO<sub>3</sub>) – nitrogen and nitrite (NO<sub>2</sub>)-nitrogen.