

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Harsco Metals Group Limited

Port Talbot Steelworks
Port Talbot
SA13 3NG

Permit number
EPR/BP3635MR

Port Talbot Steelworks

Permit number EPR/BP3635MR

Introductory note

This introductory note does not form a part of the permit

The main purpose of the Harsco activities at the Port Talbot installation are to serve the Tata Steel UK Limited steelworks processes (permit number EPR/BL7108IM). These activities are directly associated with steel production and include slag handling and metal recovery (including crushing and magnetic separation). These activities are considered waste treatment activities as the slag undergoes additional processing and therefore they require regulation under the newly-prescribed Section 5.4 Part A(1) (b) (iii) of the EPR.

Other directly associated activities at Harsco include scarfing of steel slabs, scrap management for the Basic Oxygen Steelmaking (BOS) plant (including bailing), cutting and hammering of steel skulls and coils and waste oxide briquetting (including filtration of BOS effluent).

Although there are other slags on the Port Talbot site, Harsco deal with the steel production slags whereas Cambrian Stone (permit number EPR/BL5636IF) mainly handle the iron making associated slags.

Harsco's activities are Directly Associated Activities (DAA's) of Tata's main permitted iron and steel making activities and therefore the requirements of the Iron & Steel BREF and BAT Conclusions apply. Elements of the revised Waste Treatment BREF and BAT Conclusions may also apply to Harsco's activities. The permit may be reviewed by Natural Resources Wales as required to ensure the requirements of both BREFs and BAT Conclusions are covered.

The Harsco managed processes form part of the whole Port Talbot steelworks along with the main Tata Steel operated activities and Cambrian Stone managed operations. Details of these EPR permits can be found on the Natural Resources Wales public registers.

The status log of the permit sets out the permitting history, including any changes to the permit reference number.

Status log of the permit

Description	Date	Comments
Additional information supplied by the Applicant	24/12/2002	Details of the effluent filtration plant at the briquetting process location
Request from Agency to extend determination date by 16 Days	20/05/2003	Request dated
Permit BL7191 granted	20/05/2003	Request accepted
Variation Notice BV4037 Requested 2 July 2003	Determined 6/06/2003	-
Variation Notice BX3805 Requested 29 December 2003	Effective 17/10/2003	Change in trading name
Variation Notice BX9374 Requested 25 April 2004	Effective 01/03/2004	Extension to IC 9.5 deadline accepted.
Variation Notice WP3337SD EA initiated variation	Effective 23/07/2004	Modification to reporting form A5 and the addition of form A8.
Variation Notice KP3035LE EA initiated variation	Effective 01/10/2005	Three kish related improvement conditions have been added; 9.8, 9.9 and 9.10 including minor changes to reporting forms A4 and A6.
Transfer Notice BP3635MR	Effective 31/01/2006	Modification of reporting forms A1, A3 and A5.
Application EPR/BP3635MR/V002 (Agency initiated)	Effective 19/10/2006	Permit consolidation and transfer to Multiserv Group Ltd.
Variation determined EPR/BP3635MR/V002	18/02/10	Variation includes the company name change to Harsco Metals Group Limited
Variation determined EPR/BP3635MR/V003	09/08/10	
Application received EPR/BP3635MR/V004	02/02/12	Variation to address Article 10 of the IPPC Directive in relation to air quality.
Additional information received	25/11/11	Variation to permit an additional lancing booth.
Additional information received	05/01/12	Air quality modelling files, monitoring reports.
Additional information received	16/01/12	Amended application forms, amended air dispersion modelling report.
Application EPR/BP3635MR/V004	Duly made 16/01/12	Application for an additional lancing booth.
Variation determined EPR/BP3635MR/V004	15/06/12	Varied permit issued.
Application received EPR/BP3635MR/V005	Duly made 19/12/13	Application for a hammer mill plant.
Variation determined EPR/BP3635MR/V005	18/03/2014	Varied permit issued.
Regulation 60 Notice	25/09/13	Request by NRW for Operator to demonstrate compliance with revised BAT Conclusions 8th March 2012.
Regulation 60 Notice Response	25/03/14	
NRW led variation EPR/BP3635MR/V006	02/03/16	NRW led variation to incorporate IED sector review requirements. Permit consolidated

Other Part A installation permits relating to this installation

Operator	Permit number	Date of issue
Cambrian Stone Ltd	BL5636IF	24/12/2002
Tata Steel UK Ltd (Steelworks)	BL7108IM	31/03/2004
Tata Steel UK Ltd (Hazardous landfill)	BW2692IM	17/12/2004
Tata Steel UK Ltd (Non-hazardous landfill)	BV7311IE	17/12/2004

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/BP3635MR

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/BP3635MR authorising

Harsco Metals Group Limited ("the operator"),

whose registered office is


**Harsco House
Regent Park
299 Kingston Road
Leatherhead
Surrey
KT22 7SG**

company registration number **00702790**

to operate part of an installation at

**Port Talbot Steelworks
Port Talbot
SA13 3NG**

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

Name	Date
	02 March 2016

Eirian Macdonald

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.
- 1.1.5 The responsibility for the preparation and maintenance of, and removal of solid iron from processing activities within the designated area are the subject of environmental permit EPR/BP3536MR issued to Harsco Metals Group Ltd by Natural Resources Wales. The designated area of the site is shown on the map in schedule 7 of this permit.
- 1.1.6 The operator (Harsco) is responsible for the storage and handling of BOS slag within its installation boundary. Once it has undergone the de-metalling process and is placed on the ground within the Cambrian Stone installation boundary, the operator (Cambrian Stone) takes over the responsibility under permit number EPR/BL5636IF. Cambrian Stone is also responsible for the storage of BOS slag following crushing within their installation boundary prior to dispatch offsite.
- 1.1.7 The operator (Harsco) is responsible for the management of scrap metal, briquetting operations and slab scarfing within its shared installation boundary with Tata Steel. Under permit number BL7108IM, Tata Steel UK Ltd is responsible for the building maintenance within the areas of shared responsibility with Harsco.

1.2 Energy efficiency

- 1.2.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

1.5 Multiple operator installations

1.5.1 Where the operator notifies Natural Resources Wales under condition 4.3.1 (a) or 4.3.1 (c), the operator shall also notify without delay the other operator(s) of the installation of the same information.

2 Operations

2.1 Permitted activities

2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged and shaded in blue on the site plan at schedule 7 to this permit, which is within the area edged in green on the site plan that represents the extent of the installation covered by this permit and those of the other operators of the installation.

2.3 Operating techniques

- 2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.
- (b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.3 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table S2.2; and
- (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
- (b) the composition of the waste;
- (c) the handling requirements of the waste;
- (d) the hazardous property associated with the waste, if applicable; and
- (e) the waste code of the waste.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.
- 2.3.6 The operator shall conduct all its activities at the Installation in accordance with condition 2.1.1 and the approved Air Quality Management Plan or any revision to it approved by Natural Resources Wales.
- 2.3.7 The Air Quality Management Plan shall be reviewed by the operator on an annual basis and its continued applicability and effectiveness ensured by means of a rolling annual audit programme and an appropriate corrective and preventative action system. The audit programme should consider whether there are additional appropriate measures that could be taken to prevent or minimise airborne particles. The operator should detail any amendments or additions in summary form and submit it in writing to Natural Resources Wales for approval

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by Natural Resources Wales.
- 2.4.2 Except in the case of an improvement which consists only of a submission to Natural Resources Wales, the operator shall notify Natural Resources Wales within 14 days of completion of each improvement.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.

- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Total annual emissions from the emission point(s) set out in tables schedule 3 tables S3.1 and S3.2 of a substance listed in schedule 3 table S3.3 shall not exceed the relevant limit in table S3.3.
- 3.1.4 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution, submit to Natural Resources Wales for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

- 3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.3.3 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to odour, submit to Natural Resources Wales for approval within the period specified, an odour management plan which identifies and minimises the risks of pollution from odour;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of Natural Resources Wales, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
- (a) if notified by Natural Resources Wales that the activities are giving rise to pollution outside the site due to noise and vibration, submit to Natural Resources Wales for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 3 to this permit:
- (a) point source emissions specified in tables S3.1 and S3.2;
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by Natural Resources Wales.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by Natural Resources Wales.

4 Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
- (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by Natural Resources Wales, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by Natural Resources Wales.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.
- 4.2.2 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4 ; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.

- 4.2.3 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) each year. The report(s) shall include as a minimum:
- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
 - (b) the annual production / treatment data set out in schedule 4 table S4.2; and
 - (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to Natural Resources Wales, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to Natural Resources Wales using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
- (i) inform Natural Resources Wales,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
- (b) in the event of a breach of any permit condition the operator must immediately—
- (i) inform Natural Resources Wales, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
- (c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:
- Where the operator is a registered company:
- (a) any change in the operator's trading name, registered name or registered office address; and
 - (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.6 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.

4.3.7 Where the operator has entered into a climate change agreement with the Government, Natural Resources Wales shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except with regard to condition 1.5.1 where reference is made to notification being made "without delay", in which case it may additionally be provided by telephone.

Schedule 1 - Operations

Table S1.1 activities

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
A1	Section 5.4 Part A(1) (b) (iii) Recovery or a mix of recovery and disposal of non-hazardous waste in an installation with a capacity of over 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving one or more of the following activities, and excluding activities covered by Council Directive 91/271/EEC - treatment of slags and ashes.	Moving, tipping and solidifying slag's from the steel production process Metal recovery by crushing and magnetic separation , R4: Recycling/reclamation of metals and metal compounds R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Receipt of molten slag to output from metal recovery plant Waste types as in table S2.2

Directly Associated Activity to Tata Steel UK Limited permit EPR/BL7108IM

A2	Scrap handling and storage R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced) R4: Recycling / reclamation of metals and metal compounds
A3	Baling of strip metal
A4	storage of intermediate, waste and final products
A5	scarfing of steel slabs
A6	cutting and hammering of steel skulls and rejected rolled steel coils
A7	Production of waste oxide briquettes for re-use in the steel production process (including filtration of BOS effluent)

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.3 given in pages 15-31 section SB23 of the application	17/08/2001
Response to the second Schedule 4 Part 1 Notice	The responses to questions 2.3.1 to 2.3.6	
Additional information	Details of the effluent filtration plant at the briquetting plant	24/12/2002
Application	Sections detailing abatement equipment, lancing booths stack heights, operating techniques, Harsco's fugitive dust guidance note and the revised site layout plan.	05/01/2012
Additional information	Details regarding raising the stack height of the existing lancing booth	13/04/2012
Variation application V005	The responses to application form Part C3, question 3 'operating techniques' and referenced supporting documentation.	19/12/2013

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to questions 2.3 given in pages 15-31 section SB23 of the application	17/08/2001
Regulation 60 response - Review of General, Coke and Steel processes against Iron and Steel BAT Conclusions.	All Parts	01/04/2014

Table S1.3 Improvement programme requirements

Reference	Requirement	Date
IC1	The Operator shall demonstrate to Natural Resources Wales that suitable person are signed up to the relevant scheme to demonstrate technical competence for specified waste management activities.	Within one month of permit issue
IC2	The Operator shall submit the relevant certificate demonstrating technical competence.	Within 12 months of permit issue
IC3	<p>The operator shall provide a written report to Natural Resources Wales that assesses the influence of the following factors:</p> <ul style="list-style-type: none"> a) molten iron chemistry; b) molten iron viscosity; c) torpedo temperature and standing time; d) torpedo size; and e) any other relevant factors <p>on the potential for environmental emissions from molten iron pouring and plating. The relationship between torpedo pouring angle and the duration of pouring for different sized torpedoes shall be explored as part of the report.</p>	Within 12 months of permit issue

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels

Raw materials and fuel description	Specification
---	---

Table S2.2 Permitted waste types

Waste code	Description
10 02 01	Waste from the processing of slag
10 02 02	Unprocessed slag

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
AS1 ¹	No parameters set	Steam vent on the Waste Oxide Briquetting process at a height of 6 metres	No limit set	---	---	---
AS2	Particulate matter	Scarfig air filtration plant at a height of 26 metres	10 mg/m ³ as an hourly average, no single reading shall be more than 3 times this limit.	minimum 4 hour sample	Continuous and annual calibration	BS EN 13284-2
AS3	Particulate matter	Lancing booth air filtration plant at a height of 11 metres	20 mg/m ³ as an hourly average, no single reading shall be more than 3 times this limit.	minimum 4 hour sample	Continuous and annual calibration	BS EN 13284-2
AS4	No parameters set	Slag tipping area (ground level release)	No limit set	---	Assessed visually when every slag pot is tipped	---

¹ No limits have been set for release point AS1 due to size and nature of this release.

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
GWS1 – Point GWS1 on site plan	---	Waste Oxide Briquetting Plant roof run off	---	---	---	---
GWS2 – Point GWS2 on site plan	---	BOS slag pool run off	---	---	---	---
GWS3 – Point GWS3 on site plan	---	Desulphurisation slag pool run off	---	---	---	---
GWS4 – Point GWS4 on site plan	---	Surface water from the Metal Recovery (MR) Plant	---	---	---	---
GWS5 – Point GWS5 on site plan	---	MR Workshop run off	---	---	---	---
GWS6 – Point GWS6 on site plan	---	MR Workshop run off	---	---	---	---

Table S3.3 Annual limits

Substance	Medium	Limit (including unit)
---	---	---

Schedule 4 - Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Table S4.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Particulates mg/m ³	AS2	Every 3 months	01/05/2003
Burning Booth Particulates mg/m ³	AS3 and AS5	Every 3 months	01/07/2012
Particulates mg/m ³	AS1, AS2, AS3 and AS5	Every 12 months	01/07/2012
Operational parameters	AS3 and AS5	Every 3 months	01/07/2012
Operational parameters	AS4	Every 3 months	01/09/2005
Operational parameters	Metal recovery	Every 3 months	01/05/2003

Table S4.2: Annual production/treatment

Parameter	Units
---	---

Table S4.3 Performance parameters

Parameter	Frequency of assessment	Units
Total waste received	Annually	tonnes
Total waste recovered	Annually	tonnes

Table S4.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by Natural Resources Wales	02/03/16
Water and Land	Form water 1 or other form as agreed in writing by Natural Resources Wales	02/03/16
Other performance indicators	Form performance 1 or other form as agreed in writing by Natural Resources Wales	02/03/16
Waste subject to condition 4.2.5	Waste tonnage return form available on Natural Resources Wales website	n/a

Schedule 5 - Notification

These pages outline the information that the operator must provide.

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 under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment

To be notified Immediately	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a permit condition

To be notified immediately	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit

Parameter	Notification period

(c) In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:

To be notified immediately	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

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 which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

“accident” means an accident that may result in pollution.

“application” means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

“authorised officer” means any person authorised by Natural Resources Wales under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

“background concentration” means such concentration of that substance as is present in:

- for emissions to surface water, the surface water quality up-gradient of the site; or
- for emissions to sewer, the surface water quality up-gradient of the sewage treatment works discharge.

“emissions to land” includes emissions to groundwater.

“EP Regulations” means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

“emissions of substances not controlled by emission limits” means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission or background concentration limit..

“groundwater” means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

“hazardous property” has the meaning in Annex III of the Waste Framework Directive

“Industrial Emissions Directive” means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions

“MCERTS” means the Environment Agency’s Monitoring Certification Scheme.

“quarter” means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

“recovery” means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“Waste code” means the six digit code referable to a type of waste in accordance with the list of wastes established by Commission Decision 2000/532/EC as amended from time to time (the ‘List of Wastes Decision’) and in relation to hazardous waste, includes the asterisk.

“Waste Framework Directive” or *“WFD”* means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste

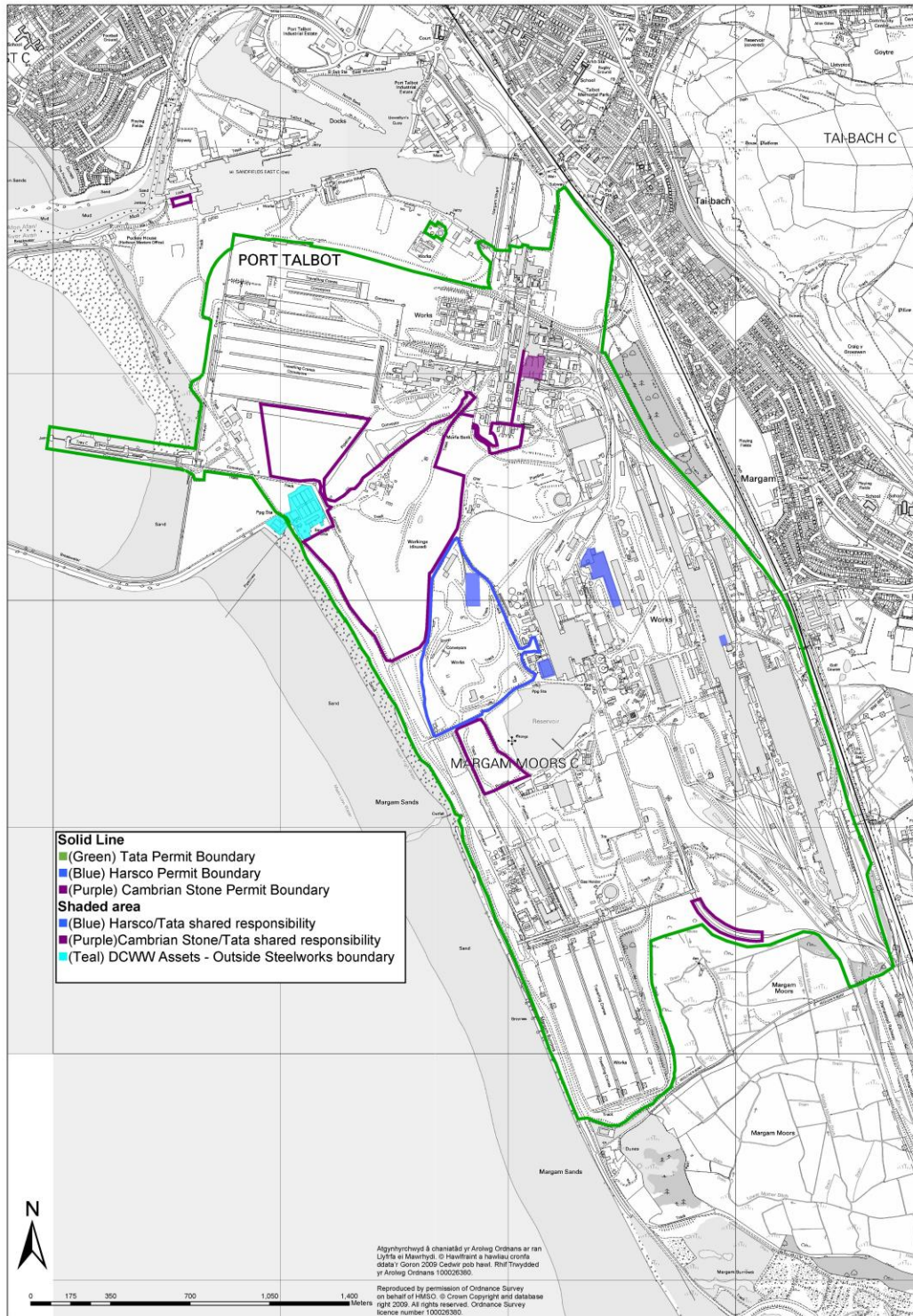
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- (a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or
- (b) in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

“year” means calendar year ending 31 December.

Schedule 7 – Site plan



© Crown Copyright and database right 2015. Ordnance Survey licence number 100019741.

END OF PERMIT

Permit Number: BP3635MR

Operator: Harsco Metals Limited

Facility: Harsco Metals Limited

Form Number: Performance1 / 02/03/16

Reporting of other performance indicators for the period DD/MM/YYYY to DD/MM/YYYY

Parameter	Units

Operator's comments :

Signed
(Authorised to sign as representative of Operator)

Date.....

Permit Number: BP3635MR

Operator: Harsco Metals Limited

Facility: Harsco Metals Limited

Form Number: Particulate1 / 02/03/16

Reporting of particulates for the period from DD/MM/YYYY to DD/MM/YYYY

Emission Point	Substance / Parameter	Emission	Reference Period	Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value					
AS2	Particulate	10 mg/m ³	Spot Sample		BS EN 13284-1		
AS3	Particulate	20 mg/m ³	Spot Sample		BS EN 13284-1		

- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with Natural Resources Wales is used, then the appropriate identifier is given. In other cases the principal technique is stated, for example gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed
(Authorised to sign as representative of Operator)

Date.....