



**ALTILIUM METALS LTD** 

**TECHNOLOGY CENTRE TAVISTOCK** 

**NON-TECHNICAL SUMMARY** 

**APRIL 2024** 



#### **Wardell Armstrong**

Sir Henry Doulton House, Forge Lane, Etruria, Stoke-on-Trent, ST1 5BD, United Kingdom Telephone: +44 (0)1782 276 700 www.wardell-armstrong.com



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**ALTILIUM METALS LTD** 

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**NON-TECHNICAL SUMMARY** 

**APRIL 2024** 

**PREPARED BY:** 

Arabella Sharrock Principal Waste Permitting Consultant

**REVIEWED BY:** 

Alison Cook Technical Director

**APPROVED BY:** 

Alison Cook Technical Director

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**APPENDICES** TITLE

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**DRAWINGS** TITLE **SCALE** 1:1000

BM12752-001-PO Permit Boundary Plan



## 1 INTRODUCTION

- 1.1.1 Altilium Metals Ltd have commissioned Wardell Armstrong LLP to prepare a permit application for the Technology Centre Facility (Unit 2, Plymouth Road Industrial Estate, Tavistock, Devon, PL19 9QN). The Site is currently operational under a Local Enforcement Position.
- 1.1.2 The site is currently utilised for the small-scale chemical treatment of waste black mass to recover critical minerals via sequential hydrometallurgical processes.
- 1.1.3 The site will also treat copper tailings and other metal rich waste streams using the same techniques to inform the potential for these waste streams to act as a source of metals.
- 1.1.4 The recovery of critical minerals such as lithium, graphite and cobalt fall within the scope of the Government's Critical Minerals Strategy, and the scheme will support a circular economy of critical minerals. Additionally, the processes also include minerals on the UK watch list, including manganese and nickel.
- 1.1.5 A high-level summary of the proposed activities is provided in Section 3.
- 1.1.6 An overview of the contents of the permit application is provided in Section 4.
- 1.1.7 A summary of the key environmental protection measures which will be put into place is provided in Section 5.

# 2 SITE LOCATION AND SETTING

- 2.1.1 The address of the site is Unit 20, Plymouth Road Industrial Estate, Tavistock, Devon, PL19 9QN. The National Grid Reference (NGR) for the site is SX 48156 73206.
- 2.1.2 The site comprises a building in which all operations are contained. The site is located on an industrial estate within a highly urbanised part of the town in Tavistock, approximately 15 km north of Plymouth. The nearest residential dwellings are located 50 m southeast of the site, off Willow Road. Further properties sit approximately 120m north and east of the site.



## 3 PROPOSED ACTIVITIES

- 3.1.1 The site operations are briefly described below, and further detail is provided in the Operating Techniques Report, including process flow schematics.
- 3.2 Waste Activity
- 3.2.1 The waste activity is treatment of hazardous wastes to recover raw materials.
- 3.2.2 The site specializes in the treatment of black mass. Black mass is classified as a hazardous waste, European Waste Catalogue(EWC) code 19 12 11\*. Tailings from the mining of copper are classified as a hazardous waste, EWC 01 03 04\*.
- 3.2.3 A variety of other metal containing wastes are proposed to be accepted at the site, these wastes contain metals that can be recovered and sold on the open market. The full list of EWC codes proposed to be accepted at the site is included in Appendix 1.
- 3.2.4 Black mass will undergo acid leaching using chemicals to sequentially separate the "reactive" contents of the waste black mass feedstock from the "inert" contents.
- 3.2.5 A maximum of 1,500kg of black mass will be stored on-site at any one time, similarly a maximum of 1,500kg of Copper Tailings will be stored on-site at any one time. Other wastes will be stored on site for research and will not exceed 1 tonne.
- 3.2.6 The chemical treatment of hazardous waste below the capacity thresholds as specified in Section 5.3 of the Environmental Permitting Regulations (England and Wales) 2016 would therefore require this element of the process to be permitted as a waste activity.

# 4 ENVIRONMENTAL PERMIT APPLICATION

- 4.1.1 A number of documents have been prepared to support the permit application and demonstrate that he environmental impact from the operations is minimised as far as possible. The permit application comprises of the following documentation:
  - Application forms;
    - Part A
    - o Part B2
    - o Part B4
    - o Part F1
  - Non-Technical Summary;



- Operating Techniques Report;
- Environmental Management System summary;
- Amenity and Accident Risk Assessment;
- Habitats Risk Assessment;
- Site Condition Report;
- H1 Screening Tool outcome and summary note;
- Associated drawings.
- 4.1.2 The above listed documentation demonstrate that the site will be operated and managed in accordance with the relevant legislation and the Environment Agency guidance.
- 4.1.3 This supporting statement has been prepared in response to the following questions raised in Application Form A, Form B2 and Form B4, which have been completed in support of the permit variation application. These questions ask the Operator to provide the following:
  - Form A Q5: Details of Directors;
  - Form B2 Q2e: Treating Batteries;
  - Form B4 Q2: Point source Emissions;
  - Form B4 Q3a: Technical Standards;
  - Form B4 Q3b: General Requirements;
  - Form B4 Q4a: Monitoring Emissions.
- 4.2 Application Form A

Question 4 Applications form Companies or Corporate Bodies; Please give the date of birth details for all directors and company secretary

4.2.1 Please see the date of birth of company directors attached to this application on a separated document as this is confidential information.



# 4.3 Application Form B2

# **Question 2e Treating Batteries**

- 4.3.1 Batteries will not be treated on site, only the arisings from batteries known as black mass.
- 4.4 Application Form B4

## **Question 2 Point Source Emissions**

4.4.1 An H1 assessment for emissions to air has been completed for the site, please see the assessment and the Technical Summary Note TN001.

# **Question 3a Technical Standards**

4.4.2 Please see the Operating Techniques.

## **Question 3b General Requirements**

4.4.3 Please see the Operating Techniques.

# **Question 4a Monitoring Emissions**

4.4.4 Please see the Operating Techniques.

# 5 ENVIRONMENTAL RISK AND MITIGATION MEASURES

- 5.1.1 The site is currently operational under a Local Enforcement Position and was operating prior to this under a Regulatory Position Statement
- 5.1.2 As part of the environmental permit application process, an Amenity and Accident Risk Assessment has been prepared to fully assess the risk to the environment from the site activities, and the control measures which will be implemented to minimise these risks.
- 5.1.3 The Habitats Risk Assessment has been prepared within the Environmental Risk Assessment assess the risk from the activities to nearby protected Habitats.
- 5.1.4 The site operates in laboratory conditions using state-of-the-art equipment, wholly inside a building. The building comprises of impermeable surfacing with a sealed drainage system.
- 5.1.5 The H1 Screening Tool has been completed to assess the emissions to air.



- 5.1.6 Stringent waste acceptance procedures will be in place. These are detailed in the Operating Techniques as well as the sites Environmental Management System.
- 5.1.7 Waste will arrive in secure bags, to minimise the risk of escape of particles. Nevertheless, the risk must be adequately controlled and a fugitive emissions have been considered within the Environmental Risk Assessment prepared as part of the permit application.
- 5.1.8 All chemicals and reagents used in the process will be stored appropriately in accordance with their safety data sheets.
- 5.1.9 Overall the innovative activities carried out by Altilium will enable the recovery of critical minerals. The hydrometallurgical recycling process can recovery over 95% of the technology metals, for direct use in new batteries or for sale on the open market, saving over 50% of carbon compared to mining virgin raw materials. Therefore, the activities have a far-reaching positive environmental impact.



# **APPENDICES**



**APPENDIX 1** 

**EWC Codes** 

| WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS  |
|--|
| Wastes from Mineral Extraction   |
| wastes from mineral metalliferous excavation   |
| Wastes from physical and chemical processing of metalliferous minerals   |
| acid-generating tailings from processing of sulphide ore   |
| other tailings containing hazardous substances   |
| tailings other than those mentioned in 01 03 04 and 01 03 05   |
| WASTES FROM INORGANIC CHEMICAL PROCESSES   |
| wastes from MFSU of salts and their solutions and metallic oxides  |
| solid salts and solutions containing heavy metals  |
| solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13  |
| metallic oxides containing heavy metals  |
| metallic oxides other than those mentioned in 06 03 15   |
| metal containing wastes other than those mentioned in 06 03  |
| wastes containing arsenic  |
| wastes containing other heavy metals   |
| wastes not otherwise specified   |
| WASTES FROM THERMAL PROCESSES  |
| Wastes from power stations and other combustion plants   |
| Coal fly ash   |
| fly ash from peat and untreated wood   |
| fly ash from emulsified hydrocarbons used as fuel  |
| WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS, NON-FERROUS HYDROMETALLURGY  |
| Wastes from non-ferrous hydrometallurgy  |
| wastes from copper hydrometallurgical processes containing hazardous substances  |
| wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05   |
| other wastes containing hazardous substances   |
| wastes not otherwise specified   |
| WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS   |
| wastes from shaping and physical and mechanical surface treatment of metals and plastics   |
| ferrous metal filings and turnings   |
| non-ferrous metal filings and turnings   |
| WASTES NOT OTHERWISE SPECIFIED IN THE LIST   |
| end of life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)   |
| brake pads other than those mentioned in 16 01 11  |
| ferrous metal  |
|  |
| non-ferrous metal  |
| non-ferrous metal components not otherwise specified   |
|  |
| components not otherwise specified   |
| components not otherwise specified wastes not otherwise specified  |
| components not otherwise specified wastes not otherwise specified  Off-Specification Batches and unused products inorganic wastes containing hazardous substances  |
| components not otherwise specified wastes not otherwise specified  Off-Specification Batches and unused products   |
| components not otherwise specified wastes not otherwise specified  Off-Specification Batches and unused products inorganic wastes containing hazardous substances inorganic wastes other than those mentioned in 16 03 03                              |
| components not otherwise specified  wastes not otherwise specified  Off-Specification Batches and unused products inorganic wastes containing hazardous substances inorganic wastes other than those mentioned in 16 03 03  Batteries and Accumulators |
|  |

| 16 06 06*<br><b>16 11</b> | separately collected electrolyte from batteries and accumulators  Waste linings and refractories                               |  |  |  |
|---------------------------|--|--|--|--|
| 10 11                     | carbon-based linings and refractories from metallurgical processes containing hazardous  |  |  |  |
| 16 11 01                  | substances   |  |  |  |
|                           | carbon-based linings and refractories from metallurgical processes other than those mentioned in                               |  |  |  |
| 16 11 02                  | 16 11 01   |  |  |  |
| 16 11 03                  | other linings and refractories from metallurgical processes containing hazardous substances                                    |  |  |  |
| 16 11 04                  | other linings and refractories from metallurgical processes other than those mentioned in 16 11 03                             |  |  |  |
| 16 11 05                  | linings and refractories from non-metallurgical processing containing hazardous substances                                     |  |  |  |
| 16 11 06                  | linings and refractories from non-metallurgical processing other than those mentioned in 16 11 05                              |  |  |  |
|                           | WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTEWATER TREATMENT PLANTS  |  |  |  |
| 19                        | AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR  |  |  |  |
|                           | INDUSTRIAL USE   |  |  |  |
| 19 01                     | Wastes from Incineration of pyrolysis of waste   |  |  |  |
| 19 01 02                  | ferrous metals removed from bottom ash   |  |  |  |
| 19 01 11*                 | bottom ash and slag containing hazardous substances  |  |  |  |
| 19 01 12                  | bottom ash and slag other than those mentioned in 19 01 11   |  |  |  |
| 19 01 13                  | fly ash containing hazardous substances  |  |  |  |
| 19 01 14                  | fly ash other than those mentioned in 19 01 14   |  |  |  |
| 19 01 17*                 | pyrolysis wastes containing hazardous substances   |  |  |  |
| 19 01 18                  | pyrolysis wastes other than those mentioned in 19 01 17  |  |  |  |
| 40.00                     | Wastes from Physio/chemical treatments of waste (including dechromation, decyanidation,  |  |  |  |
| 19 02                     | neutralisation)  |  |  |  |
| 19 02 03                  | pre-mixed wastes composed only of non-hazardous wastes   |  |  |  |
| 19 02 04*                 | pre-mixed wastes composed of at least one hazardous waste  |  |  |  |
| 19 02 05*                 | sludges from physio/chemical treatment containing hazardous substances   |  |  |  |
| 19 02 06                  | sludges from physio/chemical treatment other than those mentioned in 19 02 05  |  |  |  |
| 19 10                     | Wastes from shredding of metal-containing wastes   |  |  |  |
| 19 10 02                  | non-ferrous waste  |  |  |  |
| 19 10 03*                 | fluff-light fraction and dust containing hazardous substances  |  |  |  |
| 19 10 04                  | fluff-light fraction and dust other than those mentioned in 19 10 03   |  |  |  |
| 19 10 05*                 | other fractions containing hazardous substances  |  |  |  |
| 19 10 06                  | other fractions other than those mentioned in 19 10 05   |  |  |  |
| 19 12                     | wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified |  |  |  |
| 19 12 02                  | ferrous metals   |  |  |  |
| 19 12 03                  | non-ferrous metals   |  |  |  |
| 19 12 09                  | minerals (for example sand, stones)  |  |  |  |
| 19 12 11*                 | other wastes (including mixtures of materials) from mechanical treatment   |  |  |  |



**APPENDIX 2** 

**EMS Summary** 





**ALTILIUM METALS LIMITED** 

**TECHNOLOGY CENTRE TAVISTOCK** 

**ENVIRONMENTAL MANAGEMENT SYSTEM SUMMARY** 

**APRIL 2024** 



#### **Wardell Armstrong**

DATE ISSUED.

Sir Henry Doulton House, Forge Lane, Etruria, Stoke-on-Trent, ST1 5BD, United Kingdom Telephone: +44 (0)1782 276 700 www.wardell-armstrong.com



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| ALTILIUM METALS LTD                     |  |  |  |  |  |  |  |
| ENVIRONMENTAL MANAGEMENT SYSTEM SUMMARY |  |  |  |  |  |  |  |
| APRIL 2024                              |  |  |  |  |  |  |  |
| PREPARED BY:                            |  |  |  |  |  |  |  |
| Arabella Sharrock                       | Principal Waste Permitting<br>Consultant |  |  |  |  |  |  |
| APPROVED BY:                            |  |  |  |  |  |  |  |
| Alison Cook                             | Technical Director                       |  |  |  |  |  |  |
|   |  |  |  |  |  |  |  |

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# ALTILIUM METALS LIMITED TECHNOLOGY CENTRE TAVISTOCK ENVIRONMENTAL MANAGEMENT SYSTEM SUMMARY



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## 1 INTRODUCTION

- 1.1.1 Altilium Metals Limited have commissioned Wardell Armstrong in the preparation of an environmental permit application, for the treatment and processing of metal rich wastes, copper tailings and black mass arisings from batteries.
- 1.1.2 As part of the Environmental Permit Application, a summary of the Environmental Management System (EMS) is required to be submitted. This document provides that summary, and Altilium Metals will have a full EMS in place which will be in line with the Environment Agency's guidance on Developing a Management System<sup>1</sup>.
- 1.1.3 This report provides an overview of how the EMS will comply with the Environment Agency's guidance by providing a summary on the systems that are or will be in place at the time of permit issue.
- 1.1.4 Waste storage and treatment activities will be carried out within a building, hereafter referred to as the 'Site'.
- 1.1.5 The address of the site is Plymouth Road Industrial Estate, Tavistock, Devon, PL19 9QN
  The National Grid Reference (NGR) for the site is SX 48156 73206.

## 2 COMPLIANCE WITH ENVIRONMENT AGENCY GUIDANCE

## 2.1 Site Infrastructure

- 2.1.1 Plans will be available showing the layout of the site, including location of incoming black mass material, raw material storage, treatment areas and equipment associated with the processes within the Site, entrances and exits to be used by the emergency services and monitoring points.
- 2.1.2 These plans will be made available to relevant members of staff, visitors and the emergency services as necessary to assist in their role and reduce the potential for accidents and pollution events.
- 2.1.3 The site location plan will show the proximity of sensitive receptors, including residential receptors.

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<sup>&</sup>lt;sup>1</sup> Develop a management system: environmental permits - GOV.UK (www.gov.uk)



- 2.2 Water, Gas and Electricity
- 2.2.1 Records will be kept detailing the location of all services. This will include plans showing the location of mains water, gas and electricity supplies.
- 2.3 Site Operations
- 2.3.1 The site operations are described in the Operating Techniques report. The Site will operate in accordance with the measures set out in the Operating Techniques report, adhering to the Environment Agency's guidance on Appropriate Measures for waste storage and treatment, and Best Available Techniques for the production of inorganic chemicals.
- 2.4 Site and Equipment Maintenance Plan
- 2.4.1 The EMS will include procedures for planned maintenance of equipment in accordance with the manufacturer's instructions. All equipment will be inspected and serviced on a regular basis.
- 2.4.2 Records will be kept of all inspections, servicing, maintenance and repairs or remedial actions taken.
- 2.5 Contingency Plans
- 2.5.1 Should an equipment breakdown occur, which may lead to an impact on the environment, operation of that equipment will cease until repairs are made by an appropriately qualified and competent engineer.
- 2.5.2 All equipment is fitted with safety mechanisms.
- 2.6 Accident Prevention and Management Plan
- 2.6.1 An Accident Management Plan (AMP) will be in place to deal with any incidents or events that could result in a pollution incident or being unable to comply with the permit.
- 2.6.2 The AMP will include a list of up to date emergency contacts, including out of hours contacts.
- 2.6.3 All incidents will be investigated and suitable remedial actions taken as necessary. Should an accident or incident occur, records will be kept so that the occurrence of incidents can be reviewed and the procedures updated where necessary.
- 2.6.4 The AMP will be reviewed annually to ensure that it reflects the risk of accidents and incidents.



# 2.7 On-Line Security

- 2.7.1 Measures will be taken to manage on-line security. Back-up copies of records will be made to protect data and to ensure as far as possible that systems are working correctly and records are stored securely.
- 2.8 Resilience to Climate Change
- 2.8.1 The Site is not in a flood risk area and does not rely on water abstraction. The equipment (including abatement equipment) is contained within a facility with laboratory conditions, which is well equipped to contend with extreme fluctuations of temperature.
- 2.8.2 The impact of Climate Change should be minimal, and no specific measures are required at this current time.
- 2.9 Complaints Procedure
- 2.9.1 Should complaints be received, these will be recorded. Details of nature of the complaint and the time of the complaint will be recorded.
- 2.9.2 All complaints will be passed onto the management team, who will investigate the complaint as soon as possible. A record will be made of whether the complaint was substantiated, the likely cause and the mitigation put in place to prevent further issues.
- 2.9.3 The complainant will be informed of the outcome of the investigation and the measures taken, unless they have requested otherwise.
- 2.9.4 Records relating to complaints will be kept for a minimum of 2 years and will be made available to the Environment Agency upon request.
- 2.10 Managing Staff Competence and Training
- 2.10.1 All staff, including technicians involved with the treatment of black mass, will undergo an induction, including health and safety and environmental awareness. They will be made familiar with the environmental permit and procedures relevant to their role.
- 2.10.2 All staff will be competent in their role, for example having had appropriate training. Records will be kept regarding the qualifications required for each role.
- 2.10.3 The site will be under the control of a Technically Competent Manager (TCM) who holds the appropriate qualifications. The TCM will ensure that their site attendance will comply with the Environment Agency's requirements on TCM attendance.



## 2.11 Records

2.11.1 All records will be held securely and will be made available to staff or to the Environment Agency as required, either as hard copies or in digital format. Back-up copies will also be maintained and stored electronically.

## 2.11.2 Records will include:

- The Environmental Permit;
- Environmental Management System;
- Records of site inspections and audits;
- Records of complaints and subsequent actions;
- Plant servicing and maintenance;
- Abnormal conditions, including plant breakdown and the actions taken;
- Staff training records.

# 2.12 Review of the Management System

- 2.12.1 Procedures for checking compliance with the Environmental Permit, procedures and management system will be in place. Records will be kept of the checks carried out, who carried out the checks and what action was taken.
- 2.12.2 The management system will be reviewed, and updated where necessary, when the following apply:
  - Changes are made to the site, the equipment used or the operations;
  - If a permit variation application is made;
  - Following any accident, complaint or breach to the permit;
  - If a new environmental problem or issue is encountered, and any new control measures have been put into place to control it.

# 2.13 Site Closure

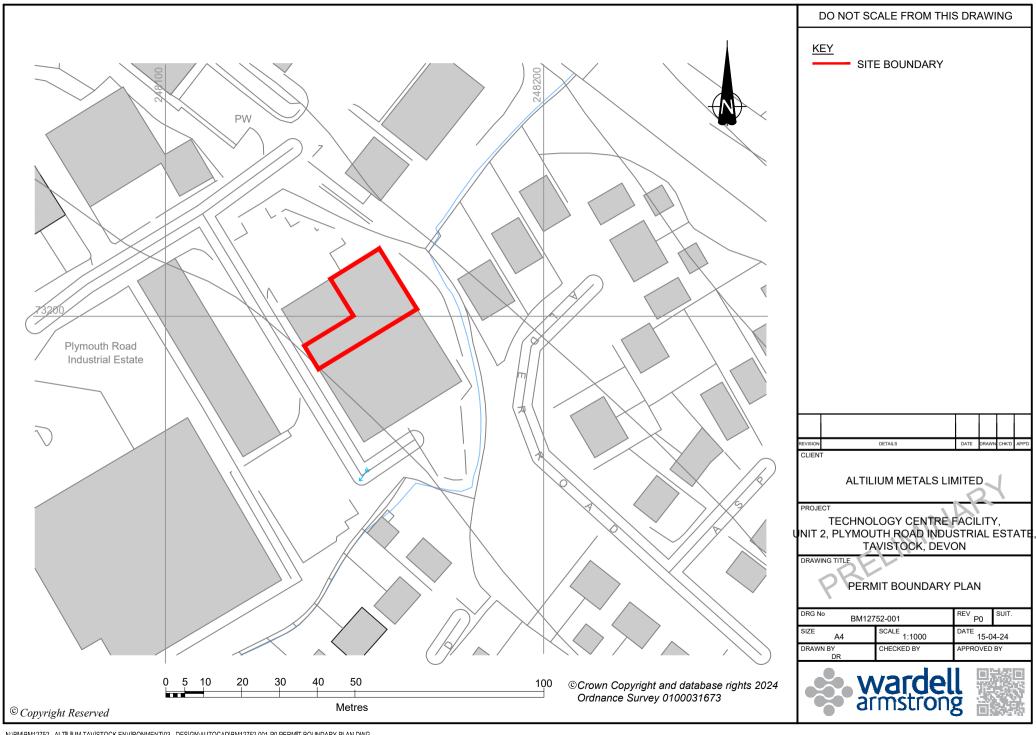
- 2.13.1 A Site Condition Report has been prepared as part of the environmental permit application, which will be updated as required during the lifetime of the permit.
- 2.13.2 Site closure and environmental permit surrender will take place in accordance with written procedures with due consideration for environmental issues.



- 2.13.3 A surrender report will be produced and submitted to the Environment Agency.
- 2.14 Understanding the Operations on Site
- 2.14.1 All staff will receive training which is appropriate to their role.



# **DRAWINGS**



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## STOKE-ON-TRENT

Sir Henry Doulton House Forge Lane Etruria Stoke-on-Trent ST1 5BD Tel: +44 (0)1782 276 700

#### **BIRMINGHAM**

Two Devon Way Longbridge Technology Park Longbridge Birmingham B31 2TS Tel: +44 (0)121 580 0909

#### **BOLTON**

41-50 Futura Park Aspinall Way Middlebrook Bolton BL6 6SU Tel: +44 (0)1204 227 227

## **BRISTOL**

Temple Studios Temple Gate Redcliffe Bristol Bristol Tel: +44 (0)117 203

Tel: +44 (0)117 203 4477

# **BURY ST EDMUNDS**

Armstrong House Lamdin Road Bury St Edmunds Suffolk IP32 6NU Tel: +44 (0)1284 765 210

## **CARDIFF**

Tudor House 16 Cathedral Road Cardiff CF11 9LJ Tel: +44 (0)292 072 9191

#### CARLISLE

Marconi Road Burgh Road Industrial Estate Carlisle Cumbria CA2 7NA Tel: +44 (0)1228 550 575

#### **EDINBURGH**

Great Michael House 14 Links Place Edinburgh EH6 7EZ Tel: +44 (0)131 555 3311

## **GLASGOW**

24 St Vincent Place Glasgow G1 2EU Tel: +44 (0)141 428 4499

#### LEEDS

36 Park Row Leeds LS1 5JL Tel: +44 (0)113 831 5533

#### LONDON

Third Floor 46 Chancery Lane London WC2A 1JE Tel: +44 (0)207 242 3243

#### **NEWCASTLE UPON TYNE**

City Quadrant 11 Waterloo Square Newcastle upon Tyne NE1 4DP Tel: +44 (0)191 232 0943

#### **TRURO**

Baldhu House Wheal Jane Earth Science Park Baldhu Truro TR3 6EH

Tel: +44 (0)187 256 0738

#### International office:

## **ALMATY**

29/6 Satpaev Avenue Hyatt Regency Hotel Office Tower Almaty Kazakhstan 050040 Tel: +7(727) 334 1310

