

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Aurelius Environmental Ltd

St Georges Works
Bradleys Lane
Tipton
Dudley
DY4 9EZ

Permit number

EPR/FP3435RP

St Georges Works

Permit number EPR/FP3435RP

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

This installation is primarily involved in the treatment and processing of up to 15,000 tonnes per annum of Waste Lead Acid batteries (total storage capacity 300 tonnes under Section 5.6 Part A(1)(a)). Lead-acid batteries, either acid containing or drained, are accepted on site mixed with other waste battery types and waste electrical equipment that is separated and repackaged for recycling off-site (under Section 5.3 Part A(1)(a)(iv)). The lead acid batteries are processed to separate the acid (neutralised with lime), plastic (granulated) and lead plate under scheduled activity Section 5.3 Part A(1)(a)(ii) . Solids are separated from the neutralised acid for disposal off-site and the filtrate is discharged to sewer under consent. The plastic and lead remain as wastes for further off-site treatment.

There are no point source emissions to air, surface water or land. There is a consented discharge to Severn Trent Water Plc sewer.

The site is located in a mixed residential and commercial area of Tipton Dudley with a special area of conservation (Fens Pools) at 5.4km and a Site of Special Scientific Interest (Wren's Nest) at 1.8km. There are also several Local Wildlife sites within 2km of the site, the nearest being at 90m from the site boundary.

The operator uses their own environmental management system based on the requirements of ISO14001.

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
Application EPR/FP3435RP/A001	Duly made 18/11/15	Application for a hazardous waste installation, primarily involved in the treatment and processing of Lead-Acid batteries.
Permit determined EPR/FP3435RP (PAS Billing ref. FP3435RP)	03/02/16	Permit issued to Aurelius Environmental Limited.

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/FP3435RP

The Environment Agency hereby authorises, under regulation 13 of the Environmental Permitting (England and Wales) Regulations 2010

Aurelius Environmental Ltd ("the operator"),

whose registered office is

96 Loxdale Sidings

Bilston

WV14 0TR

company registration number 9126634

to operate an installation at

St Georges Works

Bradleys Lane

Tipton

Dudley

DY4 9EZ

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

Name	Date
Philip Lamb	03/02/2016

Authorised on behalf of the Environment Agency

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.

1.2 Energy efficiency

- 1.2.1 For the activities referenced in schedule 1, table S1.1, 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 For the activities referenced in schedule 1, table S1.1, 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.

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”).
- 2.1.2 For the activities referenced in schedule 1, table S1.1, waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 For the activities referenced in schedule 1, table S1.1 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 the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency 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 the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.
- 2.3.4 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.
- 2.3.5 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.
- 2.3.6 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.
- 2.3.7 Treatment of waste batteries and accumulators must meet the minimum requirements set out in Annex III, Part A of Directive 2006/66/EC of the European Parliament and of the Council on batteries and accumulators and waste batteries and accumulators and repealing Directive 91/157/EEC.

- 2.3.8 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

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 the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1 table S1.4 shall not commence until the measures specified in that table have been completed.

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 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 the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency 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 the Environment Agency.
- 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 the Environment Agency, 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.

3.3.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency 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 the Environment Agency.

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 the Environment Agency, 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 the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency 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 the Environment Agency.

3.5 Monitoring

3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, 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 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

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 the Environment Agency.

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 the Environment Agency, 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 the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) 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.

4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, 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.

4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, 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 the Environment Agency 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 In the event:

- (a) 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 the Environment Agency,
 - (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) of a breach of any permit condition the operator must immediately—

- (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) 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 the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.4 The Environment Agency 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) the Environment Agency 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 The Environment Agency 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, the Environment Agency 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 where reference is made to notification being made “immediately”, in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities		
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
Section 5.3 Part A(1)(a)(ii)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment R3/R4/R5: Physico-chemical treatment of lead acid batteries	From receipt, inspection and testing to despatch of separated materials and associated wastes for recovery. Waste types as specified in Table S2.2 Treatment operations shall be limited to physical and mechanical treatment (which includes sorting, draining, separation, screening and granulation)
Section 5.3 Part A(1)(a)(ii)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment D9: Physico-chemical treatment of residual battery acid by neutralisation for disposal	From receipt of acid in waste batteries or as separately collected electrolyte and receipt and storage of raw materials to disposal of associated wastes Waste types as specified in Table S2.2 All residual battery acid must be stored in appropriate containers on an impermeable surface within a building.
Section 5.3 Part A(1)(a)(iv)	R3/R4/R5: Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving repackaging prior to submission to activities in section 5.3.	Sorting, preparation and repackaging of batteries for onward shipment for recovery. Waste types as specified in Table S 2.2
Section 5.6 Part A(1)(a)	Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes pending any of the activities in Sections 5.3. R13: Temporary storage of hazardous waste pending treatment or onward shipment	All wastes must be stored on impermeable surfaces. Dusty wastes must be stored in lidded containers.
Directly Associated Activity		
	R3/R4/R5: Storage of non-hazardous wastes.	Sorting, preparation and repackaging of batteries for onward shipment for recovery. Waste types as specified in Table 2.2 All wastes must be stored on impermeable surfaces. Dusty wastes must be stored in lidded containers.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application EPR/FP3435RP/A001	Application supporting documents provided in response to questions in Parts B2 and B3 of the application form as referenced in Part F1 Question 7 Document register:- B2 WMP02e Process Flows and Documents pertaining to an application as an Approved Battery Treatment Operator and Approved Battery Exporter (revised submission December 2015)	Duly Made 18/11/15

Table S1.2 Operating techniques		
Description	Parts	Date Received
	B2 WMP03d Management Systems & related procedures B2 WMP05c Non technical Summary B3 WMP03a Application of SGN5.06 to operations at facility DY4 9EZ B3 WMP05 Monitoring Measures and methods B3 WMP05 Measures, systems of monitoring, improvement plans and procedures concerning Energy, Raw Materials, Noise, Odour and Waste B3 WMPAPP5.1 Pre-acceptance procedures and assessment form B3 WMPAPP5.2 Waste acceptance procedures covering Load arrival, inspection, sampling, rejections, quarantine, records etc. B3 WMPAPP5.3 Storage and Infrastructure for the management of waste B3 WMPAPP5.4 Site Maps and arrangements for the management of waste B3 WMPAPP5.5 Summary of Treatment Activities and their general principles B3 WMPAPP5.6 Inventory and arrangements for treatment activities	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC1	The operator shall submit a copy of the Consent to Discharge to sewer received from Severn Trent Water plc.	Within 1 month of Receipt
IC2	The operator shall submit a report to the Environment Agency establishing a baseline for soil and groundwater quality beneath the installation. The report should include, but not be limited to, the location and depth of sampling boreholes and the sampling and quantitative analysis of potential pollutants present at the permitted installation.	31/01/2017
IC3	The operator shall submit to the Environment Agency a post trial report including, but not limited to details of : <ul style="list-style-type: none"> Data from monitoring/assessment of stack emissions, fugitive emissions, odour, noise and waste generation. Assessment of environmental impacts of the trial including any near misses. The fate of waste generated in the trial and the trial equipment infrastructure after trial completion. 	8 months after the first trial batch process start

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
Pre-Op 1	Green Lead Process Development trial	At the time of permit application some of the required detail of information to assess the trial was not yet available or needs to be confirmed once finalised. Before starting the Green Lead development trial the operator

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
		<p>shall submit to the Environment Agency a report including, but not limited to details of :</p> <ul style="list-style-type: none"> • The as-built trial equipment design, particularly abatement plant, plant layout including drainage collection, any effluent treatment and stack dimensions/velocities. • Confirmation of the waste inputs to the trial (only 16 06 01* lead is allowed unless an assessment is provided for other sources). • Storage and handling provisions for all raw materials including any necessary tank bunding. • Proposals to gather data to allow assessment of process control measures, stack emissions/temperatures/velocities, fugitive emissions, odour, noise, energy use, water use and waste generation. • Assessment of potential environmental impacts of the trial including processing, materials storage, relevant accidents and emergency scenarios. • The intended fate of waste generated in the trial and the trial equipment infrastructure after trial completion. <p>No processing shall commence until written approval from the Environment Agency is received.</p>

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 and quantities	
Maximum quantity	300 tonnes storage; 15,000 tonnes per annum throughput
Waste code	Description
16 06	Batteries and accumulators
16 06 01*	Lead batteries
16 06 02*	Ni-Cd batteries
16 06 03*	Mercury containing batteries
16 06 04	Alkaline batteries (except 16 06 03)
16 06 05	Other batteries and accumulators
16 06 06*	Separately collected electrolyte from batteries and accumulators
20 01	Separately collected fractions (except 15 01)
20 01 33*	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries
20 01 34	batteries and accumulators other than those mentioned in 20 01 33

Schedule 3 – Emissions and monitoring

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
None	-	-	-	-	-	-

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method ¹
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Lead and its compounds, expressed as lead (Total Pb)	800 µg/l	Spot sample	Each batch discharged	BS EN ISO 11885
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Mercury and its compounds, expressed as mercury (Total Hg)	0.2 µg/l	Spot sample	Each batch discharged	BS EN 12338
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Cadmium and its compounds, expressed as cadmium (Total Cd)	0.2 µg/l	Spot sample	Each batch discharged	BS EN ISO 5961
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Chemical Oxygen Demand	-	Spot sample	Six-monthly	SCA Blue Book 215
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Sulphate	-	Spot sample	Six-monthly	SCA Blue Book 136
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Suspended solids	-	Spot sample	Six-monthly	SCA Blue Book 105
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	pH	-	Spot sample	Six-monthly	BS ISO 10523
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Biological Oxygen Demand	-	Spot sample	Six-monthly	SCA Blue Book 130

Table S3.2 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method¹
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Copper and its compounds, expressed as copper (Total Cu)	-	Spot sample	Six-monthly	BS EN ISO 11885
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Nickel and its compounds, expressed as nickel (Total Ni)	-	Spot sample	Six-monthly	BS EN ISO 11885
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Zinc and its compounds, expressed as zinc (Total Zn)	-	Spot sample	Six-monthly	BS EN ISO 11885
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Silver and its compounds, expressed as silver (Total Ag)	-	Spot sample	Six-monthly	BS EN ISO 11885
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Tin and its compounds, expressed as tin (Total Sn)	-	Spot sample	Six-monthly	BS EN ISO 11885
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Chromium and its compounds, expressed as chromium (Total Cr)	-	Spot sample	Six-monthly	BS EN 1233
S1 on site plan in schedule 7	Acid neutralisation process and site surface water	Antimony and its compounds, expressed as antimony (Total Sb)	-	Spot sample	Six-monthly	BS 6068
S1 on site plan in schedule 7	Site effluent treatment plant	Total volume of batch discharges	-	Six months	Six-monthly	MCERTS Minimum requirements for self-monitoring of flow

Note 1: Or other method agreed in writing with the Environment Agency

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
Emissions to air Parameters as required by condition 3.5.1.	None	-	-
Emissions to sewer Parameters as required by condition 3.5.1	S1	Every 6 months	1 January, 1 July

Table S4.2: Annual production/treatment	
Parameter	Units
Lead separated from lead acid batteries for recovery	Tonnes
Plastic separated from lead acid batteries for recovery	Tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Raw Material usage	Annually	tonnes
Water usage	Annually	m ³
Energy usage	Annually	MWh

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Sewer	Form sewer 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	DD/MM/YY

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 malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
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 limit	
To be notified within 24 hours of detection unless otherwise specified below	
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) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
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 the Environment Agency 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.

“disposal”. Means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

“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 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.

‘hazardous substance’ means a substance classified as hazardous as a consequence of fulfilling the criteria laid down in parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008

“Hazardous waste” has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 (as amended).

‘heavy metal’ means any compound of antimony, arsenic, cadmium, chromium (VI), copper, lead, mercury, nickel, selenium, tellurium, thallium and tin, as well as these materials in metallic form, as far as these are classified as hazardous substances

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

“List of Wastes” means the list of wastes established by Commission Decision 2000/532/EC replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste, as amended from time to time.

“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 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:

- 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
- 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



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END OF PERMIT

Permit Number: FP3435RP

Operator: Aurelius Environmental Ltd

Facility: St Georges Works, Bradleys Lane, Tipton

Form Number: Performance1 / Jan2016

Reporting of other performance indicators for the period from --/--/---- to --/--/----

Parameter	Quantity	Units
Raw Material usage - Lime		tonnes
Raw Material usage – Other (specify)		tonnes
Water usage		m ³
Primary Energy usage – Electricity (x2.6 conversion delivered electricity to primary energy)		MWh
Primary Energy usage – Natural Gas		MWh
Primary Energy usage – Other (specify)		MWh
Lead separated from lead acid batteries for recovery		Tonnes
Plastic separated from lead acid batteries for recovery		Tonnes

Operator's Comments

Signed Date.....

Authorised to sign as representative of Aurelius Environmental Limited

Permit Number: FP3435RP

Operator: Aurelius Environmental Ltd

Facility: St Georges Works, Bradleys Lane, Tipton

Form Number: Sewer 1 / Jan2016

Reporting of emissions to sewer for the period from --/--/---- to --/--/----

Emission Point	Substance/ Parameter	Emission Limit Value	Reference Period	Result [1]	Test Method used [2]	Sample Date and Times
Acid neutralisation process and site surface water via S1 on site plan in schedule 7	Lead and its compounds, expressed as lead (Total Pb)	800 µg/l	Spot sample - Each batch discharged			
	Mercury and its compounds, expressed as mercury (Total Hg)	0.2 µg/l	Spot sample - Each batch discharged			
	Cadmium and its compounds, expressed as cadmium (Total Cd)	0.2 µg/l	Spot sample - Each batch discharged			
	Chemical Oxygen Demand	-	Spot sample - Each batch discharged			
	Sulphate	-	Spot sample - Each batch discharged			
	Suspended solids	-	Spot sample - Each batch discharged			
	pH	-	Spot sample – Sixmonthly			
	Biological Oxygen Demand	-	Spot sample – Sixmonthly			

	Copper and its compounds, expressed as copper (Total Cu)	-	Spot sample – Sixmonthly			
	Nickel and its compounds, expressed as nickel (Total Ni)	-	Spot sample – Sixmonthly			
	Zinc and its compounds, expressed as zinc (Total Zn)	-	Spot sample – Sixmonthly			
	Silver and its compounds, expressed as silver (Total Ag)	-	Spot sample – Sixmonthly			
	Tin and its compounds, expressed as tin (Total Sn)	-	Spot sample – Sixmonthly			
	Chromium and its compounds, expressed as chromium (Total Cr)	-	Spot sample – Sixmonthly			
	Antimony and its compounds, expressed as Antimony (Total Sb)	-	Spot sample – Sixmonthly			
	Total volume of batch discharges	-	Six months			

Operator's Comments

Notes:

- [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.
- [2] In accordance with M1 and M2 methodologies unless otherwise agreed in writing by the Agency. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography

Signed Date.....
Authorised to sign as representative of Aurelius Environmental Limited