



Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Keltbray AWS Limited

Mohawk Wharf Recycling Facility
Bradfield Road
Silvertown
London
E16 2AX

Variation application number

EPR/FP3092LH/V004

Permit number

EPR/FP3092LH

Mohawk Wharf Recycling Facility

Permit number EPR/FP3092LH

Introductory note

This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2010 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made.

Mohawk Wharf is a waste recovery, recycling, treatment and transfer station for construction, demolition and excavation waste located on the River Thames. As a direct result of new projects in Silvertown Quays, Battersea and the Thames Tideway project the variation has increased the installation boundary and volume of wastes accepted at the installation. All processes and treatments will remain the same.

This variation authorises the following changes to the permit:

- Annual volumes of waste accepted are increased from 75,000 tonnes to 150,000 tonnes (100,000 non-hazardous waste, 50,000 hazardous waste);
- The installation boundary is increased to incorporate a new area of land. The extension will allow for an additional storage bay, barge loading and second site entrance. Barge loading will reduce the volume of vehicle movements to/from the installation.
- Additionally two Part B activities are added to the permit to incorporate the screening of waste post treatment previously carried out at the installation.

The site is located within an area which has experienced high levels of airborne particle pollution (PM₁₀). Following this variation to increase the installation boundary and throughput we have imposed improvement conditions for the Operator to monitor and report on the dust levels at the installation.

The original introductory note is repeated below for information:

Mohawk Wharf Recycling Facility is located in Silvertown, East London on the banks of the River Thames (central grid reference TQ40395 79796). Waste soils and stones are transported to the installation from construction sites. Loads are initially weighed, then classified and segregated by an on-site chemist. The assessment of wastes from the construction sites are measured against the installation site acceptance criteria. Soil is then stored and stockpiled according to the level of contamination. Stockpiles are kept segregated to prevent cross contamination. Prior to treatment materials may be screened to remove oversized materials.

Soil cleaning techniques depend on the variation and concentration of pollutants in the soil. Soil suitable for biological treatment is stockpiled in biopiles in the treatment areas and, where required, treated by spraying with additives to enhance the biodegradation of hydrocarbons. Biopiles are then covered with an impermeable liner. Aeration via machine blower is also undertaken if necessary. Other treatments include soil stabilisation. Stockpiles are tested weekly by the site chemist. After reaching the site specific criteria the soils are transported to the Thames Wharf, loaded on to barges and transported via the River Thames to restoration sites.

Facilities on site comprise a weighbridge, site office, covered treatment zone capable of holding more than 7,500m³ soil, storage areas for processing soil, on site water treatment facilities, heavy machine plant including wheeled shovel loaders and excavators, screeners and blowers, pipes and chemicals for soil treatment.

The site is covered in hard standing with sealed drainage throughout. All leachate collected within the treatment area is treated via the on-site water treatment plant and either re-used on site or tankered off site.

Variation V003 added a soil treatment facility to treat hazardous and non-hazardous wastes for recovery. The Facility treats waste through the use of biopiles by means of biological remediation which involves incorporating micro-organism cultures into the biopiles to assist the remediation process. Wastes is stored and treated on an impermeable surface with sealed drainage. Site mitigation in line with best available techniques is in place on site including a biofilter and dust suppression spray systems.

The schedules specify the changes made to the permit.

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

| Status log of the permit | | |
|--|-------------------------|---|
| Description | Date | Comments |
| Application received EPR/FP3092LH/A001 | Duly Made 05/10/2009 | Application for standard rules application SR2008No11_75kte |
| Permit determined EPR/FP3092LH | 11/12/2009 | Permit issued to Keltbray AWS Limited |
| Application received EPR/FP3092LH/V002 | Duly Made 05/10/2010 | Application to vary from standard rules conditions to bespoke conditions to allow 70,000 tonnes a year of hazardous and non-hazardous construction, demolition and excavation waste |
| Additional Information received | 05/11/2010 | |
| Variation determined EPR/FP3092LH/V002 | 21/12/2010 | Permit issued to Keltbray AWS Limited |
| Application EPR/FP3092LH/V004 (variation and consolidation) | Duly made 27/11/2014 | Application to vary permit to include bioremediation treatment and update the permit to modern conditions |
| Response to Schedule 5 sent 27/01/2015 | 09/03/2015 | Response to all questions detailing pre-acceptance procedures; waste acceptance procedures; waste classification, segregating and monitoring; waste rejection; record keeping and auditing; waste storage, sampling procedures; and treatment and all referenced supporting documentation |
| Response to Schedule 5 sent 27/01/2015 and request for further information sent 19/03/2015 | 02/04/2015 | Response to all questions detailing waste acceptance procedures; dust suppression on site and treatment of non-hazardous waste |
| Variation determined EPR/FP3092LH/V003 | 28/04/2015 | Varied and consolidated permit issued in modern condition format |
| Application EPR/FP3092LH/V004 (variation) | Duly made 12/08/2016 | Variation to increase the annual throughput of waste, increase the installation boundary and add two part B activities |
| Response to Schedule 5 sent 22/09/2016 | 18/10/2016 | Historic maps, photographs of the site surface condition, responses to questions raised |
| Variation determined EPR/FP3092LH/V004 PAS/Billing Ref: MP3730DZ | 02/12/16 | Varied permit issued |

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies and consolidates

Permit number

EPR/FP3092LH

Issued to

Keltbray AWS Limited (“the operator”)

whose registered office is

St. Andrew's House

Portsmouth Road

Esher

Surrey

KT10 9TA

company registration number 04836483

to operate a regulated facility at

Mohawk Wharf Recycling Facility

Bradfield Road

Silvertown

London

E16 2AX

to the extent set out in the schedules.

The notice shall take effect from 02/12/2016

| Name | Date |
|-----------|------------|
| M Bischer | 02/12/2016 |

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number

EPR/FP3092LH

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/FP3092LH/V004 authorising,

Keltbray AWS Limited (“the operator”),

whose registered office is

St. Andrew's House

Portsmouth Road

Esher

Surrey

KT10 9TA

company registration number 04836483

to operate an installation at

Mohawk Wharf Recycling Facility

Bradfield Road

Silvertown

London

E16 2AX

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

| Name | Date |
|-----------|------------|
| M Bischer | 02/12/2016 |

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 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.

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 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 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(s) S2.2 and S2; 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.

Hazardous waste storage and treatment

- 2.3.7 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.

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.
- 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) Monitoring of biopiles are specified in table S3.1.
- 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 unless otherwise agreed in writing by the Environment Agency.

3.6 Pests

- 3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.
- 3.6.2 The operator shall:
- (a) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
 - (b) implement the pests management plan, from the date of approval, 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 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 |
| AR1 | S5.3 A(1)(a)(i) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving biological treatment | Ex-situ bioremediation of hazardous waste soil R3: Recycling / reclamation of organic substances which are not used as solvents (including other biological transformation processes) | <p>Treatment operations shall be limited to:</p> <ul style="list-style-type: none"> Biological treatment of hazardous contaminated wastes by bioremediation and biopiles. <p>Pre-treatment operations including sorting, segregation, screening in order to facilitate remedial action.</p> <p>Treatment of all hazardous wastes shall be carried out on an impermeable pavement with sealed drainage.</p> <p>Treatment shall not include blending or mixing of hazardous wastes or hazardous wastes with non-hazardous wastes.</p> <p>Storage shall not exceed 10,000 tonnes per day.</p> <p>Treatment of hazardous waste by bioremediation shall not exceed 50,000 tonnes per annum.</p> <p>Waste types as specified in table S2.2.</p> <p>Notwithstanding the waste types permitted in table S2.2 wastes which have any of the following characteristics shall not be accepted for the bioremediation process:</p> <ul style="list-style-type: none"> waste with hazardous properties due to presence of heavy metals; waste comprised or contaminated with asbestos; liquid waste. |
| AR2 | S5.4 A(1)(a)(i) Disposal or recovery of non-hazardous waste with a capacity exceeding 50 tonnes per day involving biological treatment | R3: Recycling/reclamation of organic substances which are not used as solvents (including other biological transformation processes) | <p>Treatment of non-hazardous contaminated wastes for recovery consisting only of:</p> <p>Pre-treatment operations including sorting, segregation, screening in order to facilitate remedial action.</p> <p>Treatment of all non-hazardous wastes shall be carried out on an impermeable pavement with sealed drainage.</p> <p>Storage of all non-hazardous wastes shall be carried out on an impermeable pavement with sealed drainage.</p> <p>Treatment shall not include blending or mixing of hazardous wastes or hazardous wastes with non-hazardous wastes.</p> |

| 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 |
| | | | <p>Storage by bioremediation shall not exceed 10,000 tonnes per day.</p> <p>Treatment of non-hazardous waste by bioremediation shall not exceed 100,000 tonnes per annum.</p> <p>Waste types as specified in Table S2.3.</p> <p>Notwithstanding the waste types permitted in table S2.3 wastes which have any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • waste comprised or contaminated with asbestos; • wastes comprised solely or mainly of dusts or powders; • wastes which are odour producing or likely to be odorous. |
| AR3 | S5.6 A(1)(a) Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes | 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) | <p>Storage of all hazardous wastes shall be carried out on an impermeable pavement with sealed drainage.</p> <p>Storage shall not exceed 10,000 tonnes per day.</p> <p>Waste types as specified in table S2.2.</p> <p>Notwithstanding the waste types permitted in table S2.2 wastes which have any of the following characteristics shall not be accepted for the bioremediation process:</p> <ul style="list-style-type: none"> • waste with hazardous properties due to presence of heavy metals; • waste comprised or contaminated with asbestos; • liquid waste. |
| AR4 | Section 3.5 Part B (a) The screening of any designated mineral or mineral product | <p>Post treatment screening of non-hazardous waste to remove any materials which are not suitable for use</p> <p>R5: Recycling / reclamation of inorganic materials other than metals and metal compounds</p> | <p>All treatment must take place on an impermeable surface with sealed drainage.</p> <p>Wastes types and quantities as specified within table S2.3</p> <p>Notwithstanding the waste types permitted in table S2.3 wastes which have any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • waste comprised or contaminated with asbestos; • wastes comprised solely or mainly of dusts or powders; • wastes which are odour producing or likely to be odorous. <p>Wastes likely to give rise to dusts should be:</p> |

| 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 |
| | | | <ul style="list-style-type: none"> • sheeted for transport to/from the installation • subject to dust suppression and management during storage • conditioned with water prior to internal transfer. |
| AR5 | Section 3.5 Part B (d) Screening the product of any activity described in paragraph (c) (<i>bricks, tiles or concrete</i>). | <p>Post treatment screening of non-hazardous waste to remove any materials which are not suitable for use</p> <p>R5: Recycling / reclamation of inorganic materials other than metals and metal compounds</p> | <p>All treatment must take place on an impermeable surface with sealed drainage.</p> <p>Wastes types and quantities as specified within table S2.3</p> <p>Notwithstanding the waste types permitted in table S2.3 wastes which have any of the following characteristics shall not be accepted:</p> <ul style="list-style-type: none"> • waste comprised or contaminated with asbestos; • wastes comprised solely or mainly of dusts or powders; • wastes which are odour producing or likely to be odorous. <p>Wastes likely to give rise to dusts should be:</p> <ul style="list-style-type: none"> • sheeted for transport to/from the installation • subject to dust suppression and management during storage • conditioned with water prior to internal transfer. |
| Directly Associated Activity | | | |
| AR6 | Screening of waste | <p>Screening of waste to remove any materials which are not suitable for use in treatment</p> <p>R5: Recycling / reclamation of inorganic materials other than metals and metal compounds</p> | All treatment must take place on an impermeable surface with sealed drainage |
| AR7 | Temporary storage of non-hazardous waste pending recovery | 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) | <p>All storage must take place on an impermeable surface with sealed drainage</p> <p>Waste only as per tables S2.3</p> |

| Table S1.2 Operating techniques | | |
|---|---|---------------------------------|
| Description | Parts | Date Received |
| Application EPR/FP3092LH/V002 | <ul style="list-style-type: none"> Guidance for the recovery and disposal of hazardous and non hazardous waste Ref: S5.06 Hazardous waste Ref: Technical Guidance WM2 Environmental Management Plan Non Technical Summary | 05/10/2010 |
| Additional information EPR/FP3092LH/V002 | <ul style="list-style-type: none"> Process Flow Diagram | 21/12/2010 |
| Application EPR/FP3092LH/V003 | Responses to Parts C2 and C3 of the application form and all referenced supporting documentation | 27/11/2014 |
| Response to Schedule 5 Notice dated 27/01/2015 | <p>Response to all questions detailing pre-acceptance procedures; waste acceptance procedures; waste classification, segregating and monitoring; waste rejection; record keeping and auditing; waste storage, sampling procedures; and treatment and all referenced supporting documentation:</p> <ul style="list-style-type: none"> <i>CBE_CMRF_Rev01 - Pre-acceptance procedure to assess CDE waste_001.</i> Keltbray Environmental. Feb 2015 <i>KBE_CMRF_Rev01 – Waste Rejection Procedure_001.</i> Keltbray Environmental. Feb 2015 <i>KBE_CMRF_Rev01 – Document control procedure for waste_001.</i> Keltbray Environmental. Feb 2015 <i>KBY_MW_SWP_001Rev04 – Site Working Plan.</i> Keltbray Environmental. 19/02/2015 <i>KBY_MW_PPC_WAP_001Rev01 – Site Working Plan materials acceptance procedure.</i> Keltbray Environmental. 03/08/2013 <i>KB_MS_00002 – Waste segregation methodology.</i> Keltbray Environmental. May 2013 <i>KBY_MW_PPC_PTS_001Rev001 – Procedures for the treatment of soils.</i> 02/09/2013 | 09/03/2015 |
| Response to Schedule 5 Notice dated 27/01/2015 and Request for Further Information dated 19/03/2015 | Response to all questions detailing waste acceptance procedures; waste treatment; activated carbon treatment unit, dust suppression and all referenced supporting documentation | 02/04/2015 |
| Application EPR/FP3092LH/V004 | <p>Responses to Parts C2 and C3 of the application forms and all referenced supporting documentation. Including additional documents submitted;</p> <p>Annual Max Waste 12/08/2016</p> <p>Additional EWC Code 12/08/2016</p> <p>Barge loading procedure 04/08/2016</p> <p>Ground investigation reports 14/07/2016</p> <p>Site boundary and drainage plan 14/07/2016</p> <p>Barge loading risk assessment 14/07/2016</p> <p>H5 Site condition report 14/07/2016</p> | <p>Duly made 12/08/2016</p> |
| Response to Schedule 5 Notice dated 22/09/2016 | Historical maps, photographs of the site surface, responses to questions raised. | 18/10/2016 |

| Reference | Requirement | Date |
|------------------|--|---|
| IC1 | <p>The operator shall submit a proposal for monitoring particulates (PM₁₀) at the installation boundary to the Environment Agency for approval. The proposal should include but not be limited to;</p> <ul style="list-style-type: none"> • Detail of how the monitoring will be undertaken • A map showing the sampling locations • The planned frequency of monitoring, for a period of at least 12 months • The competency of the staff undertaking the monitoring, and relevant training / certificates • The calibration certificates of the monitoring equipment • Commitment to a date when the report and raw data will be submitted to the Environment Agency. <p>The operator should refer to the Environment Agency's guidance: M17 – Monitoring of particulate matter in ambient air around waste facilities.</p> | 02/01/17 Within 1 month of permit issue. |
| IC2 | <p>Following completion of IC1 and 12 months of dust monitoring. The operator shall submit a report demonstrating the efficiency of the dust abatement measures to the Environment Agency for approval. The report shall include but not be limited to;</p> <ul style="list-style-type: none"> • A report summarising the findings along with a timetable for any improvements identified • Raw data • Considerations to enclosing the stockpiles at the installation. | Date as agreed with the Environment Agency following submission of IC1. |

Schedule 2 – Waste types, raw materials and fuels

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

| Maximum quantity | Total annual throughput for the site shall not exceed 50,000 tonnes per annum of hazardous waste |
|-------------------------|--|
| Waste code | Description |
| 01 | WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS |
| 01 05 | drilling muds and other drilling wastes |
| 01 05 05* | oil-containing drilling muds and wastes |
| 01 05 06* | drilling muds and other drilling wastes containing dangerous substances |
| 17 | CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) |
| 17 01 | concrete, bricks, tiles and ceramics |

| Table S2.2 Permitted waste types and quantities for activity AR1 and AR3 – temporary storage and treatment of hazardous waste by means of biological treatment | |
|---|--|
| Maximum quantity | Total annual throughput for the site shall not exceed 50,000 tonnes per annum of hazardous waste |
| Waste code | Description |
| 17 01 06* | mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances |
| 17 02 | wood, glass and plastic |
| 17 02 04* | glass, plastic and wood containing or contaminated with dangerous substances |
| 17 03 | bituminous mixtures, coal tar and tarred products |
| 17 03 01* | bituminous mixtures containing coal tar |
| 17 03 03* | coal tar and tarred products |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 03* | soil and stones containing dangerous substances |
| 17 05 05* | dredging spoil containing dangerous substances |
| 17 05 07* | track ballast containing dangerous substances |
| 17 09 | other construction and demolition wastes |
| 17 09 03* | other construction and demolition wastes (including mixed wastes) containing dangerous substances |
| 19 | WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE |
| 19 13 | wastes from soil and groundwater remediation |
| 19 13 01* | solid wastes from soil remediation containing dangerous substances |

| Table S2.3 Permitted waste types and quantities for activity AR2, AR4 & AR5 – treatment of non-hazardous waste by means of biological treatment or shredding | |
|---|--|
| Maximum quantity | Total annual throughput for the site shall not exceed 100,000 tonnes per annum of non-hazardous waste |
| Waste code | Description |
| 17 | CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) |
| 17 01 | concrete, bricks, tiles and ceramics |
| 17 01 01 | concrete |
| 17 01 02 | bricks |
| 17 01 03 | tiles and ceramics |
| 17 01 07 | mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 |
| 17 02 | wood, glass and plastic |
| 17 02 01 | wood |
| 17 02 02 | glass |
| 17 02 03 | plastic |
| 17 03 | bituminous mixtures, coal tar and tarred products |
| 17 03 02 | bituminous mixtures other than those mentioned in 17 03 01 |

Table S2.3 Permitted waste types and quantities for activity AR2, AR4 & AR5 – treatment of non-hazardous waste by means of biological treatment or shredding

| | |
|-------------------------|--|
| Maximum quantity | Total annual throughput for the site shall not exceed 100,000 tonnes per annum of non-hazardous waste |
| Waste code | Description |
| 17 05 | soil (including excavated soil from contaminated sites), stones and dredging spoil |
| 17 05 04 | soil and stones other than those mentioned in 17 05 03 |
| 17 05 06 | dredging spoil other than those mentioned in 17 05 05 |
| 17 05 08 | track ballast other than those mentioned in 17 05 07 |
| 17 09 | other construction and demolition wastes |
| 17 09 04 | mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 |
| 19 | WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE |
| 19 13 | wastes from soil and groundwater remediation |
| 19 13 02 | solid wastes from soil remediation other than those mentioned in 19 13 01 |
| 20 | MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS |
| 20 02 | garden and park wastes (including cemetery waste) |
| 20 02 02 | soil and stones |

Schedule 3 – Emissions and monitoring

| Table S3.1 Other Monitoring requirements – contaminated soil | | | | |
|---|--|---|-------------------------------|---|
| Emission point reference or source or description of point of measurement | Parameter | Monitoring frequency | Monitoring standard or method | Other specifications |
| Soil biopiles | Total Petroleum Hydrocarbons (TPH) Polycyclic Aromatic Hydrocarbons (PAH's) Pentachlorophenol (PCP) Note 1 Total Volatile Organic Compounds (VOC's) Phenols pH | Each completed batch of treated soil shall be sampled | - | Laboratory must be accredited to EN ISO/IEC ISO17025:2000 for the analysis. Specified samples to be obtained using standard sampling procedures as per BS 812 |

Note 1: Only if PCP contaminated soils are received for treatment

Schedule 4 – Reporting

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

| Parameter | Emission or monitoring point/reference | Reporting period | Period begins |
|--|---|------------------|---------------------------------------|
| Other monitoring requirements – contaminated soils Parameters as required by condition 3.5.1. | Biopile – Composite soil sample Total Petroleum Hydrocarbons (TPH), Polycyclic Aromatic Hydrocarbons (PAHs), Pentachlorophenol (PCP) (see Note 1), Total Volatile Organic Compounds (VOC's), Phenols and pH. | Every 3 months | 1 January, 1 April, 1 July, 1 October |

Note 1: Only if PCP contaminated soils are treated

| Parameter | Units |
|--------------------------|--------|
| Bioremediation treatment | tonnes |
| Hazardous waste IN | tonnes |
| Hazardous waste OUT | tonnes |
| Waste recycled | tonnes |
| Waste disposed | tonnes |

| Parameter | Frequency of assessment | Units |
|--------------|-------------------------|--------|
| Water usage | Annually | tonnes |
| Energy usage | Annually | MWh |

| Media/parameter | Reporting format | Date of form |
|-----------------|---|--------------|
| Water usage | Form water usage 1 or other form as agreed in writing by the Environment Agency | 28/04/2015 |
| Energy usage | Form energy 1 or other form as agreed in writing by the Environment Agency | 28/04/2015 |

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 | EPR/FP3092LH |
| Name of operator | Keltbray AWS Limited |
| 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 | |

| | |
|---|--|
| (b) Notification requirements for the breach of a limit | |
| To be notified within 24 hours of detection unless otherwise specified below | |
| 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 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.

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

“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.

“Pests” means Birds, Vermin and Insects.

“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