

# Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

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Viridor Waste (Thames) Limited

Maple Lodge Waste Water Treatment Works  
Denham Way  
Rickmansworth  
Hertfordshire  
WD3 9SQ

## **Variation application number**

EPR/NP3497NN/V006

## **Permit number**

EPR/NP3497NN

# Maple Lodge Waste Water Treatment Works

## Permit number EPR/NP3497NN

### Introductory note

#### **This introductory note does not form a part of the permit**

Under the Environmental Permitting (England & Wales) Regulations 2016 (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. All the conditions of the permit have been varied and are subject to the right of appeal.

The operator has applied in this variation to:

- remove the COD loading classification of non-hazardous waste which is to be treated in the facility.
- treat interceptor waste which is a hazardous waste stream in a plate separator

The facility will be treating non-hazardous waste and hazardous waste as follows:

#### **The Non-Hazardous Waste Treatment process will comprise:**

Pre-acceptance checks will be carried out on the non-hazardous wastes. The non-hazardous waste is delivered onto site via road tankers, and on arrival at site, further tests will be carried out to ensure the wastes are suitable. Once a waste has been verified as acceptable, it is unloaded into either an open reception pit (80m<sup>3</sup> capacity) or one of three liquid waste reception tanks (tanks 1, 2 or 3) (capacities of 50m<sup>3</sup> each).

The reception pit and reception tanks settle and remove, by gravity, particulate matter such as sand, grit and stones. Because these materials are dense, they will settle under gravity without the use of flocculants. The reception pit operates on low and high control switches to automatically control the level in the pit and the reception tanks have high level inhibition switches to prevent overflowing. Once settled, the resulting liquor from the reception pit and tanks is pumped to a waste blending tank (300m<sup>3</sup> capacity).

The blending tank is used to blend and treat non-hazardous liquid wastes from:

- reception tanks 1, 2 or 3,
- the reception pit and
- the break tank

where it is mixed with other compatible waste streams and, once COD and ammonia tests have been carried out to confirm its suitability for discharge, it is pumped into the Maple Lodge Sewage Treatment Works (STW) via discharge point S1 under a Consent Agreement.

#### **The Hazardous Waste Treatment process will comprise:**

Oil (non-emulsified) bearing hazardous waste streams are treated by the removal of sludge and/or solids by settlement prior to the removal of the oil fraction by the tilted plate separator. The treatment process will include:

- Pre-acceptance checks prior to offloading from the tanker,
- Pre-filtration - prior to processing in the plate separation unit (which operates by separating out the lighter, oily phase from the denser aqueous phase) with the denser aqueous phase discharging into a new break-tank (volume capacity 20m<sup>3</sup>) where it will be tested and will either discharge:
  - a) into the main site blending tank to be mixed with non-hazardous wastes and then discharged into the on-site Maple Lodge STW or

- b) back into reception tank 6 for retreatment in the plate separator and the lighter oily phase will discharge into a tanker pending removal off site to an appropriate registered facility able to accept this material.
- The working volume of tank 6 will be kept at 20m<sup>3</sup> less than tanks 4 and 5 in order to retain spare capacity should the treated aqueous phase be tested and found to be hazardous in order to allow the recirculation of failed aqueous phase back into the plate separator.
- The successfully treated aqueous phase will be discharged into the main blending tank where it will be blended with other non-hazardous waste streams prior to discharging into the head/inlet of the Maple Lodge Sewage Treatment Works.

#### Settled and Recovered Solid Waste:

Settled solids which accumulate at the bottom of the reception pit and reception tanks will be periodically removed and sent for disposal at permitted sites.

#### Odour Abatement:

Tank breathing (from reception tanks 1 to 6, and the blending tank) resulting in potentially odorous emissions will be vented through the re-commissioned bio filter and will be released via emission point A7.

#### Treatment Capacity:

Following this variation the site will continue to be permitted to receive and treat a maximum of 149,800 tonnes of waste aggregated across the permitted treatment activities AR1 (non-hazardous waste treatment) and AR2 (hazardous waste treatment).

#### Environment Management System:

Viridor Waste (Thames) Limited operates the site in accordance with its Business Management System that includes an Environmental Management System (EMS), accredited to ISO 14001.

The following statutory and non-statutory sites of ecological interest are within 2km radius of the site:

- Stocker Lake Local Nature Reserve (LNR)
- Rickmansworth Aquadrome LNR
- Old Park Wood Site of Special Scientific Interest (SSSI)
- Mid Colne Valley SSSI.

Burnham Beeches Special Area of Conservation is 10km from the site.

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
Waste Management Licence (WML80599)	29/09/03	Waste Management Licence issued to Thames Waste Management Limited.
Application EPR/NP3497NN/V002	Duly made 17/09/14	Application (17/09/14) to vary and update the permit to modern conditions. Note – scope of operator application was revised through Schedule 5 request including the removal of hazardous waste codes.
Variation determined EPR/NP3497NN/V002	30/06/16	Permit issued to Viridor Waste (Thames) Limited.
Application EPR/NP3497NN/V003	Duly made 28/02/17	Administrative variation application (28/02/17) to add new EWC codes.
Additional information to clarify nature of the wastes and the EWC codes requested in the application	14/03/17	Operator's response to request for further information, clarifying types of waste streams and EWC codes; withdrawing two of the three waste codes requested in the administrative variation.
Variation determined	20/03/17	Varied permit issued.

<b>Status log of the permit</b>		
<b>Description</b>	<b>Date</b>	<b>Comments</b>
EPR/NP3497NN/V003		
Application EPR/NP3497NN/V004	03/08/17	Application withdrawn.
Application EPR/NP3497NN/V005	Duly made 12/03/18	Application (23/02/18) to amend the proportions of "low COD" and "high COD" wastes accepted on site from 50:50 to 67:33.
Additional information received	24/05/18	Response to Schedule 5 Notice dated 09/05/18 updating the scope of the application to prevent import of any "high COD" waste and removing specific EWC codes that are inherently odorous.
Additional information received	26/06/18	Update supplied on waste pre-acceptance systems to ensure only "low COD" wastes are received on site and updated site plan submitted.
Variation determined EPR/NP3497NN/V005	10/08/18	Varied permit issued.
Application EPR/NP3497NN/V006	Duly made 13/12/18	Application to add a liquid hazardous waste treatment facility.
Variation determined EPR/NP3497NN/V006 (PAS Billing Ref: PP3536QZ)	15/04/19	Varied permit issued.

End of introductory note

# Notice of variation and consolidation

## The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

### Permit number

**EPR/NP3497NN**

### Issued to

**Viridor Waste (Thames) Limited (“the operator”)**

whose registered office is

**Peninsula House**

**Rydon Lane**

**Exeter**

**Devon**

**EX2 7HR**

company registration number **02990277**

to operate a regulated facility at

**Maple Lodge Waste Water Treatment Works**

**Denham Way**

**Rickmansworth**

**Hertfordshire**

**WD3 9SQ**

to the extent set out in the schedules.

The notice shall take effect from **15/04/2019**.

<b>Name</b>	<b>Date</b>
<b>Maxine Evans</b>	<b>15/04/2019</b>

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 2016

### Permit number

**EPR/NP3497NN**

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/NP3497NN/V006 authorising

**Viridor Waste (Thames) Limited** (“the operator”),

whose registered office is

**Peninsula House**

**Rydon Lane**

**Exeter**

**Devon**

**EX2 7HR**

company registration number **02990277**

to operate an installation at

**Maple Lodge Waste Water Treatment Works**

**Denham Way**

**Rickmansworth**

**Hertfordshire**

**WD3 9SQ**

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

<b>Name</b>	<b>Date</b>
<b>Maxine Evans</b>	<b>15/04/2019</b>

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”).

### **2.2 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 tables S2.2 and S2.3; 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.

### **2.4 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 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;
- (b) groundwater specified in table S3.3;
- (c) process monitoring specified in table S3.4;

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, S3.2, S3.3 and S3.4 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.

### **3.7 Fire prevention**

3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.

3.7.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to a risk of fire, submit to the Environment Agency for approval within the period specified, a fire prevention plan which prevents fires and minimises the risk of pollution from fires;

- (b) implement the fire prevention 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 reports 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 The Environment Agency shall be notified without delay following the detection of:

- (a) 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;
- (b) the breach of a limit specified in the permit; or
- (c) any significant adverse environmental effects.

4.3.4 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

4.3.5 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.

4.3.6 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:

- (c) any change in the operator's name or address; and

(d) any steps taken with a view to the dissolution of the operator.

In any other case:

(e) the death of any of the named operators (where the operator consists of more than one named individual);

(f) any change in the operator's name(s) or address(es); and

(g) 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.

4.3.7 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.

4.3.8 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

## **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	S5.4 A(1) (a) (ii) Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day - (ii) physico-chemical treatment;	<p>D9: Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12</p> <p>D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)</p>	<p>Receipt and treatment of non-hazardous liquid wastes on an impermeable surface with sealed drainage. Wastes shall only be handled if they have satisfied the Pre-Acceptance Procedures within the Working Plan.</p> <p>Treatment encompassing mixing and settlement before transfer to the head of the neighbouring sewage treatment works for aerobic treatment.</p> <p>Maximum aggregated annual throughput of 149,800 (for activities AR1 and AR2) tonnes per annum.</p> <p>Output from the site will be in accordance with the Discharge Agreement to the sewage treatment works that is in place at time of discharge.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.2.</p>

<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
AR2	S5.3 A(1) (a) (ii) Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day by physico-treatment	D9: Physico-chemical treatment not specified elsewhere in Annex IIA which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D8 and D10 to D12	<p>Receipt and treatment of hazardous liquid wastes on an impermeable surface with sealed drainage. Wastes shall only be handled if they have satisfied the Pre-Acceptance Procedures within the Working Plan.</p> <p>Treatment encompassing a two-stage tilted plate separator before transfer to the head of the neighbouring sewage treatment works for aerobic treatment.</p> <p>Maximum aggregated annual throughput of 149,800 (for activities AR1 and AR2) tonnes per annum.</p> <p>Output from the site will be in accordance with the Discharge Agreement to the sewage treatment works that is in place at time of discharge.</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.3.</p>
AR3	S5.6 A(1)(a) Temporary storage of hazardous waste in a facility with a total capacity exceeding 50 tonnes	D15: Storage pending any of the operations numbered D1 to D14 (excluding temporary storage, pending collection, on the site where it is produced)	<p>From receipt of waste to introduction to treatment processes to disposal or transfer off-site. Including acceptance and testing of waste on site.</p> <p>Maximum quantity of 150 m<sup>3</sup> of liquid hazardous waste in Tanks 4-6</p> <p>Waste types suitable for acceptance are limited to those specified in Table S2.3.</p>
<b>Directly Associated Activity</b>			
AR4	On-site laboratory, including temporary storage of samples and reactants.	Sampling of waste, storage of wastes during analytical testing.	Waste types suitable for acceptance are limited to those specified in Tables S2.2 and S2.3.
AR5	Discharge of surface water	Collection of surface water in the site surface water	From the receipt of surface water collected at the



<b>Table S1.1 activities</b>			
<b>Activity reference</b>	<b>Activity listed in Schedule 1 of the EP Regulations</b>	<b>Description of specified activity and WFD Annex I and II operations</b>	<b>Limits of specified activity and waste types</b>
	run-off to foul sewer	collection system.	facility to despatch off site via the foul water system connected to the Sewage Treatment Works.
AR6	Raw materials storage	Storage of raw materials including fuel oil.	From the receipt of raw materials to despatch for use within the facility
AR7	Vehicle wash	Washing of vehicles associated with the facility and waste deliveries.	Washing of vehicles associated with the facility on an impermeable surface, collection of wash water for disposal at the Sewage Treatment Works or tankered off-site.

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
V002 IED Application	Parts: Accidents and their consequences Habitats Risk Assessment Raw materials and water use and waste minimisation Energy Report	17/09/2014
SITE SERVICES PLAN, Ref - MPL LTP 1000, Jan 2016, provided for Schedule 5 dated 17 December 2015.	Plan showing site drainage, services and waste conveyance around site; and emissions point from Biobed Odour Filter excluding discharge of site effluent to Thames Water Utilities Limited and any operating techniques related to the acceptance, storage, handling, treatment and disposal of "high COD" wastes and use of biofilter to abate odours.	22/01/2016
Indicative Waste Transfer Plan, provided for Schedule 5 dated 17 December 2015.	Plan showing waste conveyance around site excluding any operating techniques related to the acceptance, storage, handling, treatment and disposal of "high COD" wastes and use of biofilter to abate odours.	22/01/2016
Schedule 5 (dated 17 December 2015) response.	Parts: 6 – Biobed odour Removal; and 7 – Staffing, only excluding biofilter odour removal techniques and any operating techniques related to the acceptance, storage, handling, treatment and disposal of "high COD" wastes and use of biofilter to abate odours.	22/01/2016
Email return to Schedule 5, dated 7th March 2016.	All parts: Maple Lodge BAT Assessment Update (April 2016) Revised Non-Technical Summary (April 2016) excluding any operating techniques related to the acceptance, storage, handling, treatment and disposal of "high COD" wastes and use of biofilter to abate odours.	26/04/2016
Additional information - email 17/05/2016	Amended Maple Lodge Working Plan and appendices (May 2016) unless these techniques have been amended by subsequent information provided to the Environment Agency in response to application, EPR/NP3497MM/V005 excluding any operating techniques related to the acceptance, storage,	17/05/2016

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
	handling, treatment and disposal of “high COD” wastes and use of biofilter to abate odours.	
Additional information – email 19/05/2016	Site Services Plan MPL1000 (excluding discharge of site effluent to Thames Water Utilities Limited) and confirmation ML00AWM, ML00BWM, ML00CWM, and ML00DWM are the ground water boreholes.	19/05/2016
Additional information – email 13/06/2016	Work Instruction for Leachate Acceptance unless these techniques have been amended by subsequent information provided to the Environment Agency in response to application, EPR/NP3497MM/V005 excluding any operating techniques related to the acceptance, storage, handling, treatment and disposal of “high COD” wastes and use of biofilter to abate odours.	13/06/2016
Application EPR/NP3497NN/V005	Operating techniques described in Document, “Maple Lodge Waste Treatment Facility Working Plan, Version 5.5, February 2018” except those sections relating to acceptance, storage, handling, treatment and disposal of “high COD” wastes provided in response to Section 3a (Technical Standards) of Part C3 of the Application Form.	23/02/2018
Response to Schedule 5 Notice dated 09/05/18	<p>Operating techniques described in the responses to the Notice (including accompanying information):</p> <ul style="list-style-type: none"> <li>- Responses to Questions 1a, 1b and 1c relating to the Processing of low COD waste on the Maple Lodge site;</li> <li>- Responses to Question 2 relating to the management of control of tanks and vessels from storage of high COD wastes to low COD wastes;</li> <li>- Response to Question 3a relating to the processing of low COD wastes, called liquid wastes;</li> <li>- Response to Question 3(b) relating to the testing of site effluent prior to the discharge from the blending tanks into the Thames Water Utilities Limited site;</li> <li>- Response to Question 3(c) relating to compliance with Consent Agreement with Thames Water Utilities Limited Discharge consent”;</li> <li>- Response to Question 4(a) relating to use of open pit for receipt of low COD waste;</li> <li>- Response to Question 4(b) relating to bunding and containment systems;</li> <li>- Response to Question 4(c), relating to disabling input into the low COD tank and demonstrating the operation of the high alarm on the low COD tank;</li> <li>- Response to Questions 5(a), (b) and (c) on management and control of odour generated from site operations excluding sections on use of biofilter for abating odour from accepting, handling and treatment “low COD” wastes</li> <li>- Response to Questions 1, 2 &amp; 3 on acceptance of only “low COD waste”.</li> </ul>	24/05/2018
Additional information	Operating techniques for acceptance, handling and treatment of low COD waste outlined in “Low COD Waste” section of document, “Viridor Maple Lodge Treatment Plant, Work Instruction for the Pre-Contract Testing of Wastes”. Site Plan, MPL LTOP2 (March 2018), Liquid Effluent	26/06/2018

<b>Table S1.2 Operating techniques</b>		
<b>Description</b>	<b>Parts</b>	<b>Date Received</b>
	Process Flow Diagram.	
Application EPR/NP3497NN/V006	Maple Lodge – Non –technical summary dated 19 October 2018. Maple Lodge - Operating Techniques dated 19 October 2018	19/10/2018
Additional information	Revised site plan Maple Lodge –BAT-C Assessment dated 13 December 2018.	13/12/2018
Additional information	Email outlining the engineering solution and timeframe for installing the tank valves in relation to tanks 1 to 6 and the blending tank.	11/03/2019
Additional information	Email confirming the installation of one way valves to all tanks.	26/03/2019

<b>Table S1.3 Improvement programme requirements</b>		
<b>Reference</b>	<b>Requirement</b>	<b>Date</b>
IC1	<p>The Operator shall carry out a review of odour arising from the installation following implementation of the revised operating scenario of accepting only “low COD wastes” (liquid wastes with COD concentrations no greater than 3,000mg/l) and submit a written report to the Environment Agency for approval outlining the details of this review. The report shall identify all potential sources of odour from the new operating scenario and, should the review indicate that further odour management and/or abatement is required, shall propose options to reduce or eliminate odour from the installation with timescales having regard to Sector Guidance Note IPPC S5.06, “Guidance for the Recovery and Disposal of Hazardous and Non-Hazardous Waste” Issue 5 (May 2013) and Additional Guidance for H4 Odour Management - How to comply with your environmental permit (March 2011).</p> <p>The proposals submitted in the report shall be implemented by the Operator from the date of approval in writing by the Environment Agency.</p>	15/07/2019
IC2	<p>The operator shall carry out a Best Available Techniques (BAT) review of the use of reception pits for acceptance of liquid wastes on site with a view to replacing this operation with an above ground structure and submit a report to the Environment Agency for approval. This review shall consider the indicative BAT requirements for waste storage in Sector Guidance Note IPPC S5.06, “Guidance for the recovery and disposal of hazardous and non-hazardous wastes”, Issue 5 (May 2013) and propose alternative techniques to use of open pit with timescales for implementation.</p> <p>The proposals submitted in the report shall be implemented by the Operator from the date of approval in writing by the Environment Agency.</p>	15/10/2019
IC3	<p>The operator shall install metering to measure energy consumption of the permitted facility in order to measure energy usage from 1<sup>st</sup> January 2020 and report annual energy usage as per condition 4.2.2.</p>	31/12/2019

## Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel Oil	Sulphur content not exceeding 0.1% by mass.

Table S2.2 Permitted waste types and quantities for Activity AR1 – Non-hazardous waste treatment process	
Maximum quantity	The total aggregated annual throughput at the site (Activities AR1 and AR2) shall not exceed 149,800 tonnes of liquid wastes.
Waste code	Description
<b>02</b>	<b>Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing</b>
<b>02 01</b>	<b>wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing</b>
02 01 01	sludges from washing and cleaning – food processing waste, food washing waste
<b>02 02</b>	<b>wastes from the preparation and processing of meat, fish and other foods of animal origin</b>
02 02 01	sludges from washing and cleaning, process water, food washing waste
02 02 03	materials unsuitable for consumption or processing
02 02 04	sludges from on-site effluent treatment
<b>02 05</b>	<b>wastes from the dairy products industry</b>
02 05 01	materials unsuitable for consumption or processing including solid and liquid dairy products, milk, food processing wastes, yoghurt, whey
<b>02 07</b>	<b>wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)</b>
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials including brewing waste, food processing waste, fermentation waste
02 07 04	materials unsuitable for consumption or processing including brewing waste, food processing waste, fermentation waste, beer, alcoholic drinks, fruit juice
<b>08</b>	<b>Wastes from the manufacture, formulation, supply and use (MFSU) of coatings (paints, varnishes and vitreous enamels), adhesives, sealants and printing inks</b>
<b>08 03</b>	<b>wastes from MFSU of printing inks</b>
08 03 08	aqueous liquid waste containing ink
<b>10</b>	<b>Wastes from thermal processes</b>
<b>10 01</b>	<b>wastes from power stations and other combustion plants (except 19)</b>
10 01 26	wastes from cooling-water treatment
<b>16</b>	<b>Wastes not otherwise specified in the list</b>
<b>16 10</b>	<b>aqueous liquid wastes destined for off-site treatment</b>
16 10 02	liquor/leachate from a composting process that accepts waste input types listed in this table only

<b>Table S2.2 Permitted waste types and quantities for Activity AR1 – Non-hazardous waste treatment process</b>	
<b>Maximum quantity</b>	<b>The total aggregated annual throughput at the site (Activities AR1 and AR2) shall not exceed 149,800 tonnes of liquid wastes.</b>
<b>Waste code</b>	<b>Description</b>
<b>19</b>	<b>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</b>
<b>19 05</b>	<b>wastes from aerobic treatment of solid wastes</b>
19 05 99	wastes not otherwise specified (leachate / liquor derived from the aerobic treatment (composting) of organic waste only)
<b>19 06</b>	<b>wastes from anaerobic treatment of waste</b>
19 06 03	liquor from anaerobic treatment of municipal waste (from a process that treats wastes which are listed in this table only)
19 06 04	digestate from anaerobic treatment of source segregated biodegradable waste (from a process that treats wastes which are listed in this table only)
19 06 05	liquor from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table only)
19 06 06	digestate from anaerobic treatment of animal and vegetable waste (from a process that treats wastes which are listed in this table only)
<b>19 07</b>	<b>Landfill leachate</b>
19 07 03	Landfill leachate other than those mentioned in 19 07 02
<b>19 13</b>	<b>Wastes from soil and groundwater remediation</b>
19 13 08	aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07

<b>Table S2.3 Permitted waste types and quantities for Activities AR2 and AR3 – Hazardous waste treatment process</b>	
<b>Maximum quantity</b>	<b>The total aggregated annual throughput at the site (Activities AR1 and AR2) shall not exceed 149,800 tonnes of liquid wastes.</b>
<b>Waste code</b>	<b>Description</b>
<b>13</b>	<b>Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19)</b>
<b>13 05</b>	<b>oil/water separator contents</b>
13 05 07*	oily water from oil/water separators
13 05 08*	mixtures of wastes from grit chambers and oil/water separators
<b>19</b>	<b>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</b>
<b>19 02</b>	<b>wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)</b>
19 02 07*	oil and concentrates from separation

## Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 to A6 (on site plan in Schedule 7)	Vents from liquid waste storage tanks	No parameters set	No limit set	--	--	--
A7 (on site plan in Schedule 7)	Biofilter or other odour abatement plant stack or vent(s)	No parameter set	No limit set	--	--	--

Emission point ref. & location	Source	Parameter	Limit (incl. Unit)	Reference period	Monitoring frequency	Monitoring standard or method
S1 on site plan in schedule 7 emission to Sewage Treatment Works	Process water and site surface water drainage	Metals (as defined in Consent Agreement for discharge from Viridor Maple Lodge Waste Water Treatment Works to Thames Water Utilities Limited).	No limit set	--	--	--
		Suspended oils				
		Oil/grease				

Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
ML00AWM, ML00BWM, ML00CWM, and ML00DWM - Plan MPL LTP 1000	pH	<6 or >9 pH units	Spot Sample	Quarterly	Horizontal Guidance Note H1 – Environmental Risk Assessment for permits, Annex J3, version 2.1, December 2011) or such other
	Chemical oxygen demand	750 mg/l			
	Cadmium	0.005 mg/l			
	Chromium	0.050 mg/l			
	Lead	0.025 mg/l			
	Copper	0.1 mg/l			

<b>Table S3.3 Groundwater – emission limits and monitoring requirements</b>					
<b>Monitoring point reference</b>	<b>Parameter</b>	<b>Limit (including unit)</b>	<b>Reference Period</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>
	Nickel	0.1 mg/l			subsequent guidance as may be agreed in writing with the Environment Agency.
	Zinc	0.45 mg/l			

<b>Table S3.4 Process monitoring requirements</b>				
<b>Emission point reference or source or description of point of measurement</b>	<b>Parameter</b>	<b>Monitoring frequency</b>	<b>Monitoring standard or method</b>	<b>Other specifications</b>
Biofilter	Temperature	As required	Temperature probe	Biofilter shall be regularly checked and maintained to ensure appropriate temperature and moisture content.
	Moisture	As required	None specified	
	Thatching/compaction	As required	None specified	
Waste reception; Storage tank(s); and holding and mixing pits	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary (times and durations of olfactory monitoring to be agreed in writing with the Environment Agency).
Storage tank(s)	Integrity checks	Weekly	Visual assessment	--

## 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
Ground water monitoring Parameters as required by condition 3.5.1	ML00AWM, ML00BWM, ML00CWM, and ML00DWM	Every 3 months	1 January, 1 April, 1 July, 1 October

Parameter	Units
<b>Total waste delivered to site as follows:</b>	
Non-hazardous waste	tonnes
Hazardous waste	tonnes
<b>Total waste rejected from site as follows:</b>	
Non-hazardous waste rejected	tonnes
Hazardous waste rejected	tonnes
<b>Total waste treated on site:</b>	
Non-hazardous waste:	tonnes
Hazardous waste	tonnes
<b>Fate of waste treated on site:</b>	
Total waste discharged into the Maple Lodge Sewage Treatment Works	tonnes
Total waste treated on site but removed from the permitted facility, excluding amount discharged into the Maple Lodge Sewage Treatment Works – Non-hazardous waste	tonnes
Total waste treated on site but removed from the permitted facility, excluding amount discharged into the Maple Lodge Sewage Treatment Works – Hazardous waste	tonnes

Parameter	Frequency of assessment	Units
Water usage	Annually	m <sup>3</sup>
Energy usage	Annually	MWh
Total raw material used	Annually	tonnes
Use of biofilter for odour abatement	Annually	dates

Media/parameter	Reporting format	Date of form
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	10/08/18



<b>Table S4.4 Reporting forms</b>		
<b>Media/parameter</b>	<b>Reporting format</b>	<b>Date of form</b>
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	10/08/18
Other performance indicators 1	Form performance 1 or other form as agreed in writing by the Environment Agency	10/08/18
Other performance indicators 2	Form performance 2 or other form as agreed in writing by the Environment Agency	10/0818

## 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	

<b>(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</b>	
<b>To be notified within 24 hours of detection</b>	
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>(b) Notification requirements for the breach of a limit</b>	
<b>To be notified within 24 hours of detection unless otherwise specified below</b>	
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	

<b>Time periods for notification following detection of a breach of a limit</b>	
<b>Parameter</b>	<b>Notification period</b>

<b>(c) Notification requirements for the detection of any significant adverse environmental effect</b>	
<b>To be notified within 24 hours of detection</b>	
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.

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

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

“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 2016 No.1154 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

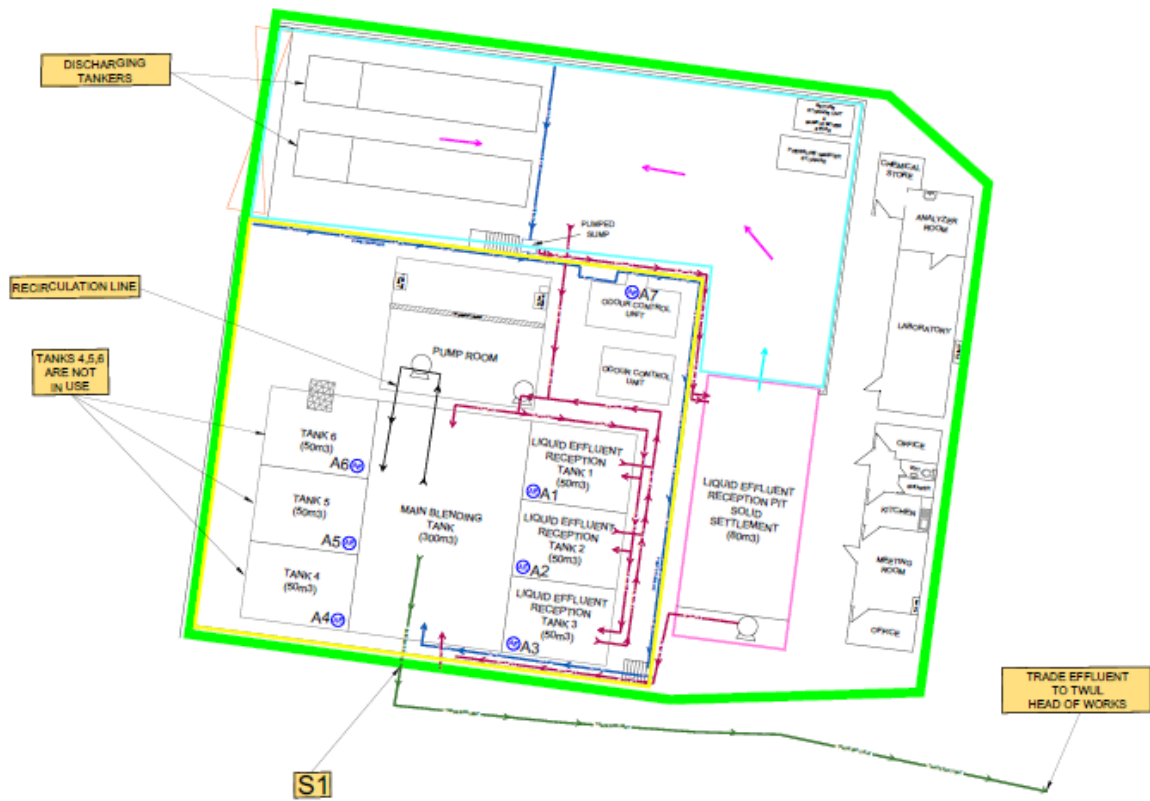
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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



Tanks 4 to 6 to be used for hazardous waste prior to treatment in the plate separator.

END OF PERMIT

**Permit Number: EPR/NP3497NN**

**Operator: Viridor Waste (Thames) Limited**

**Facility: Maple Lodge WWT Works**

**Form Number: WaterUsage1/ 10/08/18**

**Reporting of Water Usage for the year**

<b>Water Source</b>	<b>Usage (m<sup>3</sup>/year)</b>	<b>Specific Usage (m<sup>3</sup>/unit output)</b>
Mains water		
Site borehole		
River abstraction		
<b>TOTAL WATER USAGE</b>		

Operator's comments:

Signed .....

Date.....

(authorised to sign as representative of Operator)

**Permit Number: EPR/NP3497NN**

**Operator: Viridor Waste (Thames) Limited**

**Facility: Maple Lodge WWT Works**

**Form Number: Energy1/ 10/08/18**

**Reporting of Energy Usage for the year**

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
Biogas	MWh		
Gas Oil	tonnes		
Recovered Fuel Oil	tonnes		
<b>TOTAL</b>	-		

\* Conversion factor for delivered electricity to primary energy = 2.4

Operator's comments:

Signed .....

Date.....

(Authorised to sign as representative of Operator)



**Permit Number:**            **EPR/NP3497NN**                      **Operator:**            **Viridor Waste (Thames) Limited**

**Facility:**                      **Maple Lodge WWT**                      **Form Number: Performance1/ 10/08/18**  
**Works**

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

<b>Parameter</b>	<b>Units</b>	<b>Usage</b>
Total raw material used	tonnes	

Operator's comments:

Signed .....

Date.....

(Authorised to sign as representative of Operator)

**Permit Number:**            **EPR/NP3497NN**            **Operator:**            **Viridor Waste (Thames) Limited**

**Facility:**                    **Maple Lodge WWT**            **Form Number: Performance2/ 10/08/18**  
**Works**

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

<b>Parameter</b>	<b>Dates</b>
Dates of periods of biofilter operation for odour control	

Operator's comments:

Signed .....

Date.....

(Authorised to sign as representative of Operator)