

Permit with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Solutia UK Limited

Ruabon Chemical Works
Ruabon Works
Cefn Mawr
Wrexham
LL14 3SL

Permit number
EPR/PP3231WL

Ruabon Chemical Works

Permit number EPR/PP3231WL

Introductory note

This introductory note does not form a part of the permit

The main features of the permit are as follows.

The Ruabon Chemical Works Waste Water Treatment Plant (WWTP) treats effluent from site operations, abstracted groundwater (from Solutia's carbon filter units) and site rainwater run-off. The WWTP facilities allow the collection and storage of these effluent streams; pH adjustment; removal of solids in a primary clarifier, effluent neutralisation using CO₂ and final solids-settling before discharge to the River Dee.

An effluent pipeline connects the WWTP to the normal discharge point W1 (into the River Dee) and alternate discharge point W2 (into the Tref-y-Nant Brook). W2 is only used when W1 is not available, for example due to maintenance.

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

Status log of the permit		
Description	Date	Comments
Application BV2689	Received 14/08/03	
Additional Information	Received Nov. 03- Jan.04	Further Site Report information
Additional Information	Received 17/12/03	Ion exchange vessel proposal
Additional Information	Received 22/01/04	Report of emissions sampling
Additional Information	Received 26/01/04	Pilot line proposal
Additional Information	Received 05/03/04	Site plan
Additional Information	Received 12/03/04	Energy information
Permit BV2689IE determined	13/04/04	
Variation YP3931MV	Received 12/01/07	
Variation YP3931MV determined	06/06/07	
Application EPR/BV2689IE/V003	Duly Made 05/06/09	
Schedule 5 Request for Further Information	Sent 07/08/09	
Additional Information	Received 14/08/09	Response to Schedule 5 Notice, MSDSs for boiler water treatment chemicals

Status log of the permit

Description	Date	Comments
Additional Information	Received 21/08/09 & 24/08/09	Noise attenuation calculations for boilers and air compressors
Variation Notice determined EPR/BV2689IE/V003	01/09/09	Addition of 2 new gas-fired package boilers and 2 new air compressors
Variation and consolidation application EPR/BV2689IE/V004 – consolidation with EPR/FP3939KF	Duly made 08/06/09	
EA request to extend determination date to 31/10/09	Sent 04/09/09	
Extension request agreed	Received 04/09/09	
EA request to extend determination date to 30/11/09	Sent 11/11/09	
EA request for further information	Sent 11/11/09	
Extension request agreed	Received 13/11/09	
Additional Information	Received 13/11/09	Monthly performance data for Chemical Oxygen Demand, Free Cyanide, Monohydric Phenols, Sodium Acetate, TMAH and DTPA
EA request to extend determination date to 26/02/10	Sent 28/01/10	
Extension request agreed	Received 29/01/10	
EA request to extend determination date to 26/03/10	Sent 24/02/10	
Extension request agreed	Received 24/02/10	
EA request for further information	Sent 24/02/10	
Additional Information	Received 03/03/10	Interpretation of past monitoring results
EA request to extend determination date to 27/04/10	Sent 26/03/10	
Extension request agreed	Received 29/03/10	
EA request for further information	Sent 23/04/10	
Additional Information	Received 23/04/10 & 30/04/10	Sulphate monitoring data

Status log of the permit

Description	Date	Comments
EA request to extend determination date to 30/04/10	Sent 26/04/10	
Extension request agreed	Received 27/04/10	
EA request to extend determination date to 07/05/10	Sent 05/05/10	
Extension request agreed	Received 06/05/10	
Variation and consolidation determined – consolidated permit number EPR/BV2689IE/V004	07/05/10	
Agency variation determined EPR/BV2689IE/V005	22/03/13	Agency variation to implement the changes introduced by IED
Application EPR/PP3231WL/T001 (part transfer of permit EPR/BV2689IE)	Duly made 11/12/14	Application to transfer effluent lines, effluent treatment plant and final discharge line to the River Dee to Solutia UK Ltd.
Part Transfer determined EPR/BV2689IE/T006	02/04/15	
Part Transfer (New Operator) determined EPR/PP3231WL/T001 Permit number: EPR/PP3231WL	02/04/15	Part transfer of effluent lines, effluent treatment plant and final discharge line to River Dee complete.

Other Part A installation permits relating to this installation

Operator	Permit number	Date of issue
Solutia UK Limited	EPR/NP3335GR	23/12/08
Air Products Electronics Advanced Materials Europe Limited	EPR/BV2689IE	13/04/04

End of introductory note

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/PP3231WL

This is the consolidated permit referred to in the transfer notice for application EPR/PP3131WL/T001 authorising,

Solutia UK Limited (“the operator”),

whose registered office is

Corporation Road
Newport
South Wales
NP19 4XF

company registration number **03295486**

to operate part of an installation at

Ruabon Chemical Works
Ruabon Works
Cefn Mawr
Wrexham
LL14 3SL

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

Name	Date
	02/04/2015

Holly Noble, Team Leader (Waste), NRW Permitting Service

Authorised on behalf of Natural Resources Wales

Conditions

1 Management

1.1 General management

- 1.1.1 The activities shall be managed and operated:
- (a) in accordance with a management system, which identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances and closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) by sufficient persons who are competent in respect of the responsibilities to be undertaken by them in connection with the operation of the activities.
- 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.

1.2 Accident management plan

- 1.2.1 The operator shall:
- (a) maintain and implement an accident management plan;
 - (b) review and record at least every 4 years or as soon as practicable after an accident, (whichever is the earlier) whether changes to the plan should be made;
 - (c) make any appropriate changes to the plan identified by a review.

1.3 Energy efficiency

- 1.3.1 The operator shall:
- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every 4 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.

1.4 Efficient use of raw materials

- 1.4.1 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 4 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.

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

1.5.1. The operator shall:

- (a) take appropriate measures to ensure that waste produced by the activities is avoided or reduced, or where waste is produced it is recovered wherever practicable or otherwise disposed of in a manner which minimises its impact on the environment;
- (b) review and record at least every 4 years whether changes to those measures should be made; and
- (c) take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

2.1.1 The operator is 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 red on the site plan at schedule 2 to this permit and excluding the land shown edged in blue.

2.3 Operating techniques

2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by Natural Resources Wales.

(b) If notified by Natural Resources Wales that the activities are giving rise to pollution, the operator shall submit to Natural Resources Wales for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by Natural Resources Wales.

2.3.2 Any raw materials or fuels listed in schedule 2 table S3.1 shall conform to the specifications set out in that table.

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 4 tables S4.1 and S4.2.

3.1.2 The limits given in schedule 4 shall not be exceeded.

3.2 Fugitive emissions of substances

- 3.2.1 Fugitive emissions of substances (excluding odour, noise and vibration) 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 fugitive emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 All liquids, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Odour

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

3.4 Noise and vibration

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

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by Natural Resources Wales, undertake the monitoring specified in the following tables in schedule 4 to this permit:
- (a) point source emissions specified in tables S4.1 and S4.2;
 - (b) Following segregation of the organic effluent streams the Operator shall carry out an analytical monitoring programme according to Table S4.3.
- 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) unless otherwise agreed in writing by Natural Resources Wales.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

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

4.1.2 All records, plans and the management system required to be maintained by this permit shall be held on the site where practicable, or other location agreed in writing and controlled by the operator.

4.2 Reporting

4.2.1 All reports and notifications required by the permit shall be sent to Natural Resources Wales using the contact details supplied in writing by Natural Resources Wales.

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to Natural Resources Wales by 31 January (or other date agreed in writing by Natural Resources Wales) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production /treatment data set out in schedule 5 table S5.2; and
- (c) the performance parameters set out in schedule 5 table S5.3 using the forms specified in table S5.4 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 Natural Resources Wales, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:

- (a) in respect of the parameters and emission points specified in schedule 5 table S5.1;
- (b) for the reporting periods specified in schedule 5 table S5.1 and using the forms specified in schedule 5 table S5.4 ; 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 4 years, submit to Natural Resources Wales, within 6 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.

4.3 Notifications

4.3.1 Natural Resources Wales shall be notified without delay following the detection of:

- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission 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.

4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 6 to this permit within the time period specified in that schedule.

4.3.3 Where Natural Resources Wales has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform Natural Resources Wales when the relevant monitoring is to take place. The operator shall provide this information to Natural Resources Wales at least 14 days before the date the monitoring is to be undertaken.

4.3.4 Natural Resources Wales shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

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

In any other case:

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

- 4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
- (a) Natural Resources Wales shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.6 Natural Resources Wales shall be given at least 14 days notice before implementation of any part of the site closure plan.
- 4.3.7 Where the operator has entered into a climate change agreement with the Government, Natural Resources Wales shall be notified within 1 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

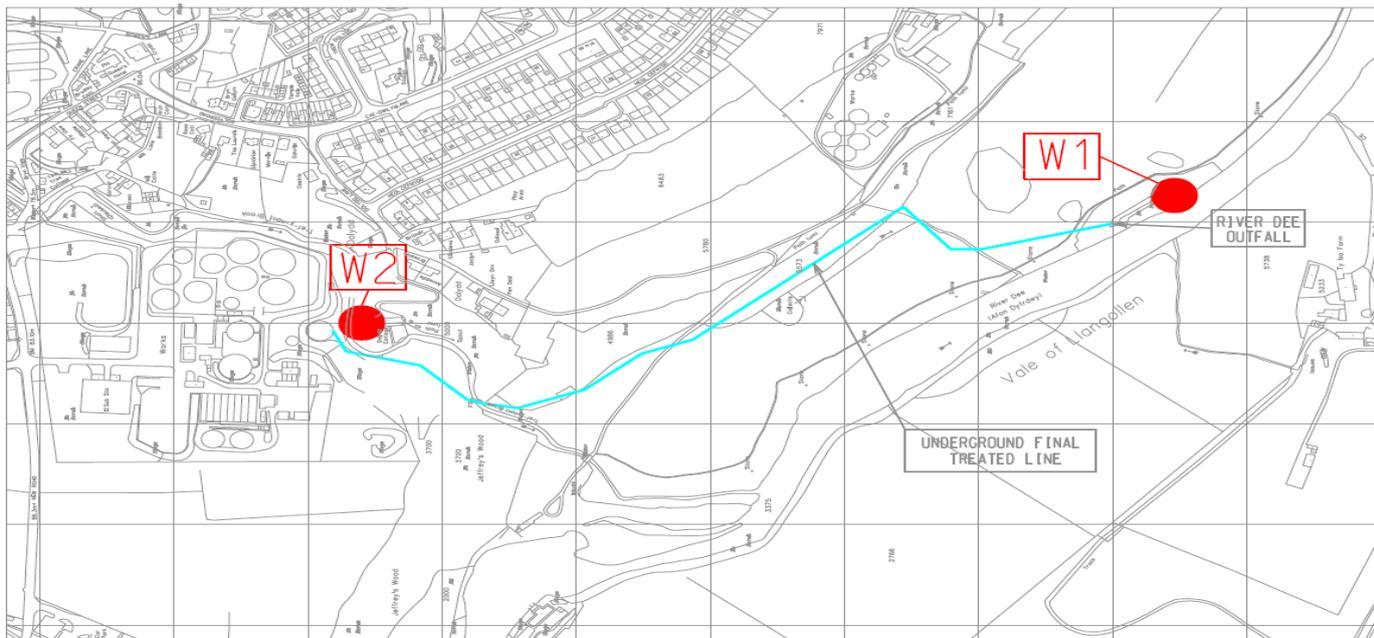
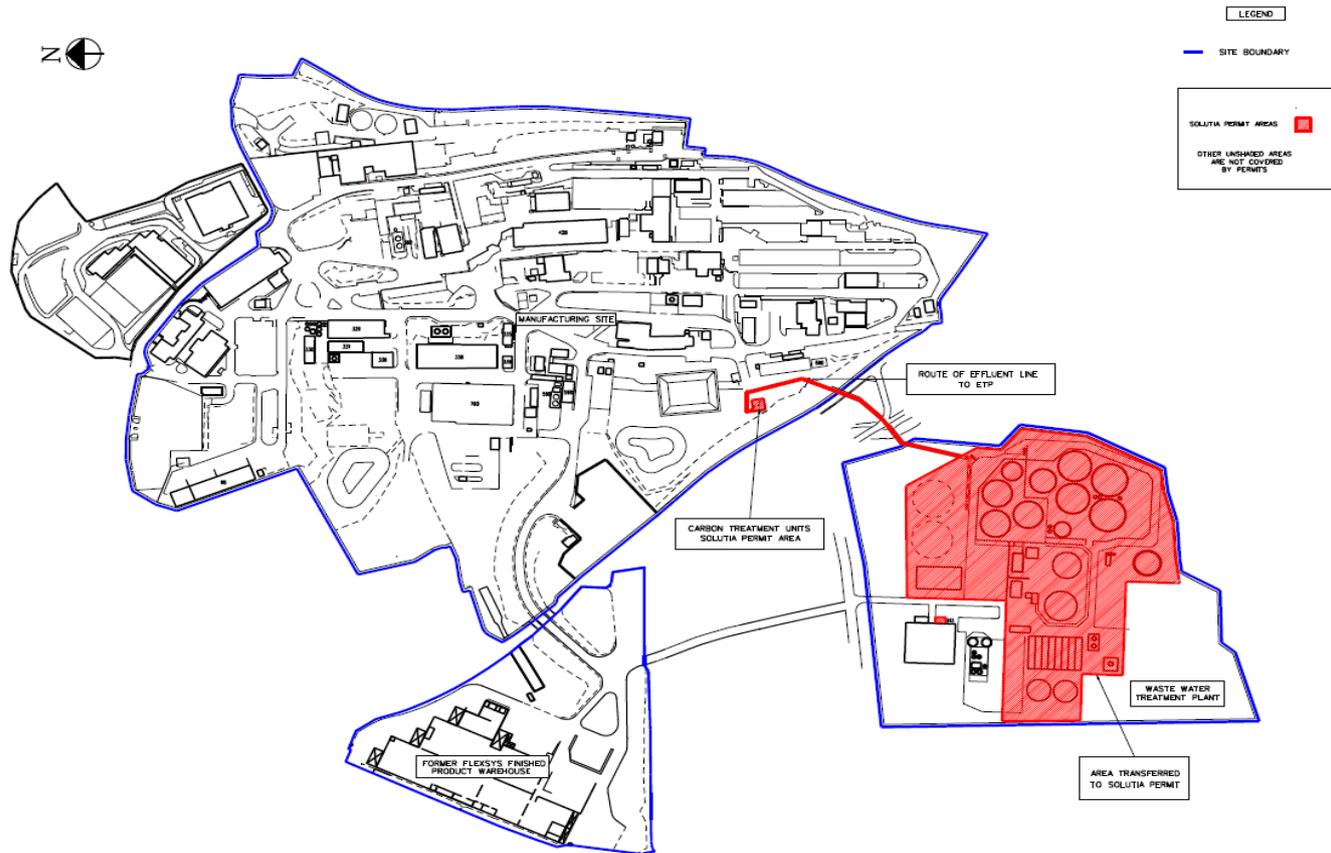
- 4.4.1 In this permit the expressions listed in schedule 7 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.
- 4.4.3 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 the limit.

Schedule 1 - Operations

Table S1.1 activities			
Activity reference	Activity listed in Schedule 1 of the EP Regulations / Associated Activity	Description of specified activity and WFD Annex I and II operations	Limits of specified activity
AR2	Section 5.4 Part A(1)(a)(ii)	Disposal of non-hazardous waste in a facility with a capacity of more than 50 tonnes per day by physico-chemical treatment.	From receipt of effluent to discharge to controlled water (River Dee or Tref-y-Nant Brook). Includes rainwater, abstracted groundwater and effluent from operations on site.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Part Transfer Application EPR/PP3231WL/T001	Document entitled "Doc2: Transfer Description – Form D2, Question 3b", section 3.0 "ETP facilities ", section 4.0 "ETP Operation" and section 5.0 "Ground Conditions". Document entitled "Doc3: Management Systems – Form D2, Question 4d".	11/12/14

Schedule 2 - Site plan & Route of Effluent pipeline connecting WWTP to emission points W1 & W2



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

Schedule 3 - Waste types, raw materials and fuels

Table S3.1 Raw materials and fuels

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

Schedule 4 – Emissions and monitoring

Table S4.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
A8, North of Sludge Handling Tanks	No parameters set	Sludge Handling Odour Extraction System	No limit set	-	-	-
A9, South of Centrifuge Building	No parameters set	Sludge Centrifuge Odour Extraction System	No limit set	-	-	-
A10, Chemical Storage Area	No parameters set	Sulphuric Acid Storage Tank Vent	No limit set	-	-	-
A11, Chemical Storage Area	No parameters set	Caustic Soda Storage Tank Vent	No limit set	-	-	-

Table S4.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1, W2	Maximum Flow Rate	Waste Water Treatment Plant	92.5 l/s	-	Continuous	On-line electromagnetic flow meter
	Maximum Discharge Volume	Waste Water Treatment Plant	8000 m ³ /day	-	Continuous	On-line electromagnetic flow meter
	pH	Waste Water Treatment Plant	Min. 6 Max. 9	-	Continuous	On-line pH meter
	Biological Oxygen Demand (BOD) (5 day ATU @20°C)	Waste Water Treatment Plant	30 mg/l	-	Annual	BS EN 1899-1:1988 BS EN 1899-2:1988
	Chemical Oxygen Demand (COD) (2h)	Waste Water Treatment Plant	250 mg/l	-	Monthly	BS 6068-2.34:1988
	Suspended Solids (dried @ 105°C)	Waste Water Treatment Plant	90 mg/l	-	Sampling – daily, weekday samples are analysed, weekend and bank holiday samples analysed if a concern is identified by visual check.	BS EN 872:2005
	Suspended Solids (dried @ 105°C)	Waste Water Treatment Plant	60 mg/l	Volumetric flow proportional average of weekday (normally 5) daily samples	Weekly	BS EN 872:2005
	Total Zinc	Waste Water Treatment Plant	0.5 mg/l	-	Weekly	BS EN 11885:1988 or BS EN ISO 17294-2:2006
	Total Iron	Waste Water Treatment Plant	5.0 mg/l	-	Weekly	BS EN 11885:1988 or BS EN ISO 17294-2:2006
	Total Phenol	Waste Water Treatment Plant	0.2 mg/l	-	Monthly	HPLC with electrochemical detector

Table S4.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method
W1, W2	Total Tetrachloroethene	Waste Water Treatment Plant	2.5 µg/l (note 1)	-	Monthly	Solvent extraction with analysis by GCMS
	Total Organic Carbon (TOC)	Waste Water Treatment Plant	No limit set	-	Weekly	ASTM D4839-94
	Micro-pollutants	Waste Water Treatment Plant	No limit set	-	Daily sample retained for one-week with analysis if concern level identified by water abstractors. Monthly sample analysis.	Solvent extraction with analysis by GCMS
	Sulphate	Waste Water Treatment Plant	9100 mg/l	-	Weekly	ASTM D5542-94

Note 1: Annual average concentration

Table S4.3: Effluent Monitoring Programme

Parameter	Sample Source	Monitoring frequency	Monitoring method	Objective
Total Nitrogen	W1 WWTP Final Effluent	Weekdays only	Total Nitrogen Analysis using Hach Lange Tubes	Confirmation of the absence of TMAH (Tetramethylammonium hydroxide). Confirmation of predicted concentrations of Total Nitrogen of 4 mg/l.

Schedule 5 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Waste		Annually	01/01/04
Maximum Flow Rate l/s	W1	Quarterly	01/10/09
Maximum Discharge Volume m ³ /day	W1	Quarterly	01/10/09
pH	W1	Quarterly	01/10/09
Biological Oxygen Demand (BOD) (5 day ATU @ 20°C) mg/l	W1	Annually	01/01/10
Chemical Oxygen Demand (COD) (2h) mg/l	W1	Quarterly	01/10/09
Suspended Solids (dried @ 105°C) mg/l	W1	Quarterly	01/10/09
Total Zinc mg/l	W1	Quarterly	01/10/09
Total Iron mg/l	W1	Quarterly	01/10/09
Total Phenol mg/l	W1	Quarterly	01/10/09
Total Tetrachloroethene µg/l	W1	Annually	01/01/10
Total Organic Carbon (TOC)	W1	Quarterly	01/05/10
Micro-pollutants	W1	Quarterly	01/05/10
Sulphate	W1	Quarterly	01/05/10
Total Nitrogen	W1	Quarterly	01/05/10

Table S5.2: Annual production/treatment

Parameter	Units
-	-

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
COD	Annually	COD/standard unit output

Table S5.4 Reporting forms

Media/parameter	Reporting format	Date of form
Waste Return	R1	01/03/04
Water (excluding sewer)	Form number Water 1 or other form as agreed in writing by Natural Resources Wales	23/03/10
Performance Indicators	Form number Performance Indicators 1 or other form as agreed in writing by Natural Resources Wales	23/03/10

Schedule 6 - Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

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

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or fugitive emission which has caused, is causing or may cause significant pollution	
To be notified within 24 hours of detection	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B - to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Solutia UK Limited

Schedule 7 - Interpretation

"*accident*" means an accident that may result in pollution.

"*annually*" means once every year.

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

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

"*BAT*" means Best Available Techniques. This means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: "available techniques" means "those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the operator"; "best" means "in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole" and "techniques" includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned".

"*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.

"*fugitive emission*" means an emission to air, water or land from the activities from a localised or diffuse source which is not controlled by an emission limit.

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

"*MCERTS*" means the Environment Agency's Monitoring Certification Scheme.

"*Monitoring*" includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

"*quarter*" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"*Sewer*" means the sewer within the meaning of section 219(1) of the Water Industry Act 1991.

"*Year*" means calendar year ending 31 December.

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

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

END OF PERMIT