

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

ConocoPhillips (U.K) Limited
Theddlethorpe Gas Terminal
Theddlethorpe St Helen
Mablethorpe
Lincolnshire
LN12 1NQ

Variation application number

EPR/LP3933LX/V003

Permit number

EPR/LP3933LX

Theddlethorpe Gas Terminal

Permit number EPR/LP3933LX

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. All the conditions of the permit have been varied and are subject to the right of appeal.

Changes linked to this variation are summarised below:

The site uses a Freon based refrigeration system to control the dew point of gas. Freon use is restricted under EC regulation on hydro chlorofluorocarbons. The operator can only add new Freon to the system up to June 2016. This variation is for the replacement of the current Freon based refrigeration system with a propane system.

The new propane system requires the addition of a new ground flare. This is primarily for the emergency release of propane but will also routinely treat small quantities of propane that are purged from the new system. The flare is a new point source emission to air (A13).

The schedules specify the changes made to the permit.

Brief description of the installation

The Theddlethorpe gas terminal (TGT) is located in a predominantly rural area near to the North Sea coastline. There is a low density of permanent residential housing. The area is a popular holiday destination, with the local population increasing during the summer months. There are several environmentally important sites located in the vicinity of the installation, including sites of special scientific interest (SSSI).

The installation originally received natural gas from a number of fields through four sub-sea pipelines and one onshore pipeline, namely, Viking, Lincolnshire Offshore Gas Gathering System (LOGGS), Pickerill, Caister/Murdoch and Saltfleetby (onshore). The Viking pipeline and associated onshore facilities are now shut down but gas and liquids from Viking offshore platforms are received via the LOGGS facility.

TGT operates 24 hours a day, 365 days a year, processing gas and liquids.

A project to export and store gas is being considered for the Saltfleetby gas field.

The prescribed Activity:

Each pipeline has its own reception facility, with the exception of Viking which is now shut down, including a dunes valve, sphere receiver and slug catcher. These facilities perform core separation of the gas, condensate, and aqueous methanol. After bulk separation, these fluids pass to the integrated gas, condensate, and methanol processing plants, which are collectively referred to as TGT. The main processing units include the reception facilities and sphere receivers, pressure reduction, and gas blending, gas processing (dew pointing), condensate stabilisation and methanol fractionation. A closed loop hot oil system provides the heat source for condensate stabilisation and methanol fractionation and fuel gas heating. The off-gas produced from condensate stabilisation is used as fuel gas, blanket gas for storage tanks and domestic fuel for heating. Nitrogen is used as blanket gas in the new refrigeration system.

The gas received from Viking, LOGGS, Pickerill, and Saltfleetby is good quality, and only requires processing (gas dew pointing) prior to export. Caister/Murdoch gas has a higher nitrogen and carbon dioxide content, and must be admixed with gas from the other fields using blending equipment, to produce gas of a saleable quality. The Pickerill and Saltfleetby gas landing pressure is too low to enable the gas to pass directly to the dew pointing trains. Therefore, it is compressed immediately after the reception facilities.

Condensate from the slug catcher is mixed with more condensate from the inlet and cold separators and heated. Flash vapour is routed to the high-pressure fuel gas system. The condensate is piped to the stabiliser, where it is heated to degas the liquid. The stabiliser overheads are vented to the low pressure fuel gas system. The stabilised condensate is drawn from the re-boiler, cooled and routed to storage. Condensate is pumped from storage to the Humber Refinery for processing.

Aqueous methanol streams are transferred to the methanol recovery unit, where methanol is recovered to storage by distillation. Methanol is used offshore, where it is re-injected into the gas pipelines for hydrate control. The aqueous residue from methanol recovery is discharged to sea by pipeline.

Ancillary systems include:

The hot oil system, which delivers heat to all the process users. The fuel gas system, which delivers high-pressure gas to the gas turbine driven generators and make up gas to the low pressure fuel gas system, which in turn, delivers gas to the hot oil heaters, vessel blankets and purge for the vent systems.

Excess fuel gas is routed to a ground flare and a new ground flare serves the new propane refrigeration system. Corrosion inhibitor is injected into the methanol export line.

Emissions into air include:

Products of combustion from two thermal oil heaters. (17 MWth - each unit)

Products of combustion from the ground flares.

Products of combustion from the Pickerill compressor gas turbine. (32 MWth)

Products of combustion from three generator gas turbines. (15 MWth - each unit)

Hydrocarbons released from two cold vent stacks. (HP and LP)

Hydrocarbons released from key fugitive emission sources such as storage tank emissions and diffuse emission sources such as flanges and pump seals.

Discharges to water include:

Surface water drainage from paved and bunded areas into the Crook bank/Mablethorpe cut and ultimately the North Sea.

The main effluent is continuous process water flowing from the reboilers on the methanol still and liquid dropout from the HP knockout drums.

Effluent from the terminal contains heavy metals as a result of naturally occurring material produced by the gas reservoirs or as a direct result of pipeline corrosion products.

Waste materials generated by the installation include:

Waste generated on-site falls into one of the following categories:

Non-hazardous waste - for example, general compactable site waste, office waste, wood, paper, scrap metal, cardboard etc.

Hazardous waste - for example, process waste, oily rags, paints, thinners, laboratory chemicals, oils, batteries etc.

The majority of waste removed on-site is naturally occurring radioactive material (NORM). This is removed from vessels, as sludge, and scales. NORM waste is removed from site for incineration

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 LP3933LX (EPR/LP3933LX/A001)	Received 31/07/06	.
Additional information received		03/08/06
Application LP3933LX	Duly made 03/08/06	
Permit determined	23/05/07	
Agency variation determined EPR/LP3933LX/V002	29/05/13	Agency variation to implement the changes introduced by IED
Variation application (EPR/LP3933LX/V003)	Duly made 22/07/15	Change from freon to propane refrigeration system
Variation determined (EPR/LP3933LX/V003)	Issued 02/10/15	

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/LP3933LX

Issued to

ConocoPhillips (U.K) Limited ("the operator")

whose registered office is

**Portman House
2 Portman Street
London
W1H 6DU**

company registration number 00524868

to operate a regulated facility at

**Theddlethorpe Gas Terminal
Theddlethorpe St Helen
Mablethorpe
Lincolnshire
LN12 1NQ**

to the extent set out in the schedules.

The notice shall take effect from 02/10/2015

Name	Date
Philip Lamb	02/10/2015

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/LP3933LX

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/LP3933LX/V003 authorising,

ConocoPhillips (U.K) Limited (“the operator”),

whose registered office is

**Portman House
2 Portman Street
London
W1H 6DU**

company registration number 00524868

to operate a regulated facility at

**Theddlethorpe Gas Terminal
Theddlethorpe St Helen
Mablethorpe
Lincolnshire
LN12 1NQ**

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

Name	Date
Philip Lamb	02/10/2015

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.

1.2 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 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

- 2.5.1 The activities shall not be brought into operation until the measures specified in schedule 1 table S1.4A have been completed.
- 2.5.2 The operations specified in schedule 1 table S1.4B shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1 and S3.2.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Where a substance is specified in schedule 3 table S3.2 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.

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 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.

3.4 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.

3.5 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) Ambient air monitoring as specified in table S3.3.
- 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), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

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

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made,

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.

4.3 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 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.

4.3.5 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

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

4.3.7 Where the operator has entered into a climate change agreement with the Government, the Environment Agency shall be notified within one month of:

- (a) a decision by the Secretary of State not to re-certify the agreement;
- (b) a decision by either the operator or the Secretary of State to terminate the agreement; and
- (c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “immediately” in which case it may be provided by telephone.

Schedule 1 – Operations

Table S1.1 activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity	Limits of specified activity
S1.2A(1)(a)	Refining gas where this is likely to involve the use of 1000 tonnes or more of gas in any period of 12 months	Receipt of raw gas through to despatch of refined product.
S1.1 A1 (a)	Burning any fuel in an appliances with an aggregated rated thermal input of 50 megawatts or more.	Gas turbine compressor, gas turbine generators, ground flares and hot oil heaters.
Directly Associated Activity		
Storage and handling of raw materials	Storage tanks, drum & IBC storage and storage of other containers.	Tank farms, drum stores and warehouses, including associated abatement or environmental protection provision.
Storage and handling of products	Storage tanks, drum & IBC storage and storage of other containers.	Tank farms, drum stores and warehouses, including associated abatement or environmental protection provision.

Table S1.2 Operating techniques		
Description	Parts	Date Received
Application LP3933LX (EPR/LP3933LX/A001)	Section B2.1 and B2.12 in the Application	31/07/06
Variation application EPR/LP3933LX/V003	Section 3 and 4 of the Environmental permit application document	Duly made 22/07/15

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC 1 to IC 19	-	Completed

Table S1.4A Pre-operational measures	
Reference	Pre-operational measures
1	At least 4 weeks before commencing commissioning of any new equipment required to achieve compliance with the requirements of the Air Quality Standard for Benzene the operator shall submit a commissioning plan for the new equipment.
2	At least 4 weeks before commencing commissioning of any new equipment required to reduce flaring rates the operator shall submit a commissioning plan for the new equipment.

Table S1.4B Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
1	Export gas for onshore storage in the Saltfleetby gas field.	At least 4 months before commencing commissioning of any new equipment required to export gas to the Saltfleetby (onshore) gas field the operator shall submit a commissioning plan for the new equipment.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Fuel oil on P 101C	<0.1% sulphur content

Schedule 3 – Emissions and monitoring

Table S3.1 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 ⁽¹⁾
A1	NO _x as NO ₂	Thermal Oil Heater W-101	350 mg/m ³	Time average of at least 10 minutes.	Monthly at least three weeks apart	In house method to CP-SEQ-515 appendix B
A2	NO _x as NO ₂	Thermal Oil Heater W-201	350 mg/m ³	Time average of at least 10 minutes	Monthly at least three weeks apart	In house method to CP-SEQ-515 appendix B
A3	NO _x as NO ₂	Gas Turbine Generator P-101A	125 mg/m ³	Time average of at least 10 minutes.	Monthly at least three weeks apart	In house method to CP-SEQ-515 appendix B
A4	NO _x as NO ₂	Gas Turbine Generator P101B	125 mg/m ³	Time average of at least 10 minutes	Monthly at least three weeks apart	In house method to CP-SEQ-515 appendix B
A5	NO _x as NO ₂	Gas Turbine Generator P-101C	125 mg/m ³	Time average of at least 10 minutes	Monthly at least three weeks apart	In house method to CP-SEQ-515 appendix B
	SO _x as SO ₂		No limit is set	-	-	-
A6	NO _x as NO ₂	Gas Turbine Compressor P-251	125 mg/m ³	Time average of at least 10 minutes	Monthly at least three weeks apart	In house method to CP-SEQ-515 appendix B
A7	NO _x as NO ₂	Ground flare W-360	No limit is set	-	-	-
A8	Hydrocarbon	HP vent stack 19-1401	No limit is set	-	-	-
A9	Hydro carbon	LP vent stack W-102	No limit is set	-	-	-
A10	NO _x as NO ₂	Instrument air compressor (diesel standby generator)	No limit is set	-	-	-
A11	NO _x as NO ₂	Firewater pumps (diesel standby generator)	No limit is set	-	-	-
A12	NO _x as NO ₂	Diesel standby generator	No limit is set	-	-	-
A13	No parameters set	Ground Flare	No limits set	-	-	-

Note 1. Or as agreed in writing with the Environment Agency

Table S3.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements							
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method ⁽¹⁾	
W1	Methanol	Site liquid effluent from TS	2000 mg/l	-	Daily-spot sample	Headspace sampling and Gas Chromatography	
			200 mg/l	Average of 24 hour composites	No less than 1 per month	Headspace sampling and Gas Chromatography	
	Hydrocarbon oils		100 mg/l	-	Daily-spot sample	No less than 1 per month	Solvent extraction and infra-red Spectroscopy
			15 mg/l	Average of 24 hour composite			
	Flow		2200 m ³ /day	24 hour	Continuous	Magflow meter	
	Cadmium		0.22 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Mercury		0.04 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Iron		500 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Zinc		120 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Manganese		100 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Lead		12 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Nickel		1.0 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Copper		0.2 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Chromium		0.3 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Arsenic		0.2 mg/l	Average of 24 hour composite	No less than 1 per month	ISO15586 and ISO15587	
	Amine		No limit is set. Note. Condition 3.1.3 does not apply	Average of 24 hour composite	No less than 1 per month	ASTM D 2327-68	
	Phenol		No limit is set Note. Condition 3.1.3 does not apply	Average of 24 hour composite	No less than 1 per month	BS EN ISO 14402	

Table S3.2 Point Source emissions to water (other than sewer) – emission limits and monitoring requirements						
Emission point ref. & location	Parameter	Source	Limit (incl. unit)	Reference Period	Monitoring frequency	Monitoring standard or method⁽¹⁾
W2 - Local Drain	Hydrocarbon oils	Storm water	Substantially free from visible hydrocarbon oil	-	Daily	Visual Check-Site Procedure
W3 - Local Drain	Hydrocarbon oils	Storm water	Substantially free from visible hydrocarbon oil	-	Daily	Visual Check-Site Procedure
W4 - Local Drain	Hydrocarbon oils	Storm water	Substantially free from visible hydrocarbon oil	-	Daily	Visual Check-Site Procedure
W5 - Local Drain	Hydrocarbon oils	Storm water	Substantially free from visible hydrocarbon oil	-	Daily	Visual Check-Site Procedure
W6 - Local Drain	Hydrocarbon oils	Storm water	Substantially free from visible hydrocarbon oil	-	Daily	Visual Check-Site Procedure
W7 - Local Drain	Hydrocarbon oils	Storm water	Substantially free from visible hydrocarbon oil	-	Daily	Visual Check-Site Procedure
W8 - Local Drain	Hydrocarbon oils	Storm water	Substantially free from visible hydrocarbon oil	-	Daily	Visual Check-Site Procedure
W9 - Local Drain	Hydrocarbon oils	Storm water	Substantially free from visible hydrocarbon oil	-	Daily	Visual Check-Site Procedure

Note 1. Or as agreed in writing with the Environment Agency

Table S3.3 Ambient air monitoring requirements				
Location or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Site boundary	Benzene	Continuous	As agreed with the Environment Agency	

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
Emissions to air Parameters as required by condition 3.5.1 (monthly results)	A1, A2, A3, A4, A5, A6	Every 6 months	1 January
Emissions to air Parameters as required by condition 3.5.1 Annual results)	Site boundary Benzene (annual average)	Every 12 months	1 January
Emissions to water Parameters as required by condition 3.5.1 (Monthly results)	W1	Every 6 months	1 January

Parameter	Units
Gas exported	MSCM

Parameter	Frequency of assessment	Units
Water usage	Annually	m ³
Gas usage	Annually	Tonnes
Electricity usage	Annually	MJ

Media/ Parameter	Reporting format	Date of form
Air 1	Form Air 1 or other form as agreed in writing by the Agency	23/05/07
Air 2	Form Air 2 or other form as agreed in writing by the Agency	23/05/07
Water 1	Form water 1 or other form as agreed in writing by the Agency	23/05/07
Water 2	Form water 2 or other form as agreed in writing by the Agency	23/05/07
Water usage	Form water usage1 or other form as agreed in writing by the Agency	23/05/07
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	23/05/07
Other performance indicators	Form performance 1 or other form as agreed in writing by the Agency	23/05/07

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/LP3933LX
Name of operator	ConocoPhillips (UK) 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	
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.

"*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 the 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.

"*emissions to land*", includes emissions to groundwater.

"*fugitive emission*" means an emission to air, water or land from the activities which is 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.

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

"*notify without delay*" and "*notified without delay*" means that a telephone call can be used, whereas all other reports and notifications must be supplied in writing, either electronically or on paper.

"*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.

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

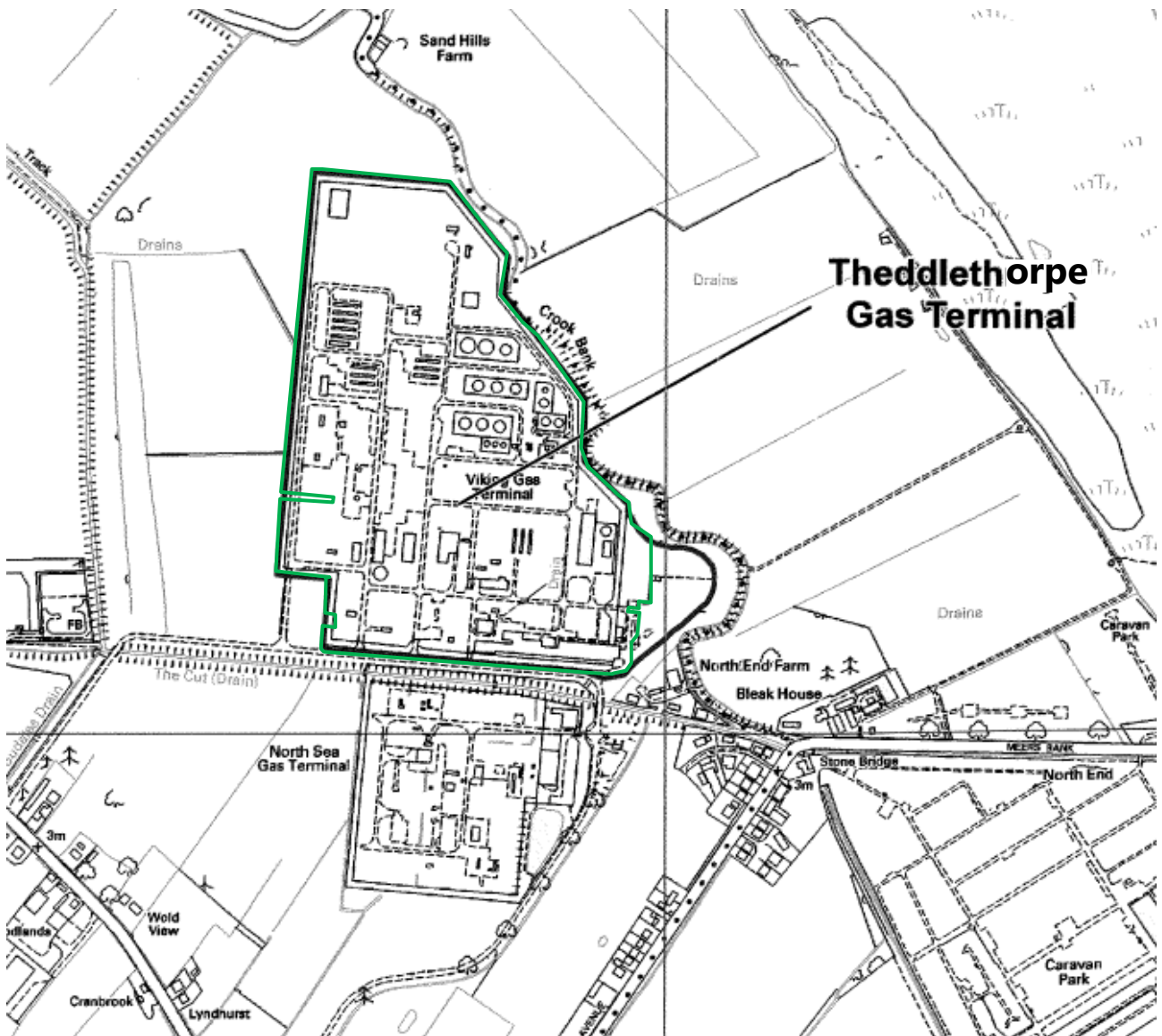
"*year*" means calendar year ending 31 December.

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:

- (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.
- (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.
- (c) in relation to emissions from gas turbines, the concentration in dry air at a temperature of 273K and at a pressure of 101.3 kPa, and with an oxygen content of 15% dry for liquid and gaseous fuels.

Schedule 7 – Site plan



END OF PERMIT