

	EPR Compliance Assessment Report	Report ID: BU0800IZ/0247983			
This form will report compliance with your permit as determined by an NRW officer					
Site	Llanddulas Landfill EPR/BU0800IZ		Permit Ref	BU0800IZ	
Operator/ Permit holder	3C Waste Limited				
Date	23/07/2015		Time in	09:30	Out 13:30
What parts of the permit were assessed	Gas infrastructure and handover inspection				
Assessment	Site Inspection	EPR Activity:	Installation	X	Waste Op
					Water Discharge
Recipient's name/position	Pete Taberner / Unit Manager				
Officer's name	Aled Zachary, Tony Roberts		Date issued	10/09/2015	

Section 1 - Compliance Assessment Summary					
This is based on the requirements of the permit under the Environmental Permitting Regulations. A detailed explanation and any action you may need to take are given in the "Detailed Assessment of Compliance" (section 3). This summary details where we believe any non-compliance with the permit has occurred, the relevant condition and how the non-compliance has been categorised using our Compliance Classification Scheme (CCS). CCS scores can be consolidated or suspended, where appropriate, to reflect the impact of some non-compliances more accurately. For more details of our CCS scheme, contact your local office.					
Permit Conditions and Compliance Summary					Condition(s) breached
a) Permitted activities	1. Specified by permit	A			
b) Infrastructure	1. Engineering for prevention & control of pollution	C3	3.1.1;		
	2. Closure & decommissioning	N			
	3. Site drainage engineering (clean & foul)	N			
	4. Containment of stored materials	A			
	5. Plant and equipment	A			
c) General management	1. Staff competency/ training	A			
	2. Management system & operating procedures	A			
	3. Materials acceptance	A			
	4. Storage handling, labelling, segregation	A			
d) Incident management	1. Site security	A			
	2. Accident, emergency & incident planning	N			
e) Emissions	1. Air	C3	3.3.5;		
	2. Land & Groundwater	N			
	3. Surface water	N			
	4. Sewer	N			
	5. Waste	N			
f) Amenity	1. Odour	A			
	2. Noise	A			
	3. Dust/fibres/particulates	A			
	4. Pests, birds & scavengers	A			
	5. Deposits on road	A			
g) Monitoring and records, maintenance and reporting	1. Monitoring of emissions & environment	N			
	2. Records of activity, site diary, journal & events	N			
	3. Maintenance records	N			
	4. Reporting & notification	N			
h) Resource efficiency	1. Efficient use of raw materials	NA			
	2. Energy	NA			
KEY: C1, C2, C3, C4 = CCS breach category (* suspended scores are marked with an asterisk), A = Assessed (no evidence of non-compliance), N = Not assessed, NA = Not Applicable, O = Ongoing non-compliance – not scored					

Number of breaches recorded	2	Total compliance score (see section 5 for scoring scheme)	8
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If the Total No Breaches is greater than zero, then please see Section 3 for details of our proposed enforcement response

Section 2 – Compliance Assessment Report Detail

This section contains a report of our findings and will usually include information on:

- the part(s) of the permit that were assessed (e.g. maintenance, training, combustion plant, etc)
- where the type of assessment was 'Data Review' details of the report/results triggering the assessment
- any non-compliances identified
- any non-compliances with directly applicable legislation
- details of any multiple non-compliances
- information on the compliance score accrued inc. details of suspended or consolidated scores.
- details of advice given
- any other areas of concern
- all actions requested
- any examples of good practice.
- a reference to photos taken

This report should be clear, comprehensive, unambiguous and normally completed within 14 days of an assessment.

Handover inspection including review of gas infrastructure on site. Officers present:

- Aled Zachary
- Tony Roberts

Non Compliances:

B1 - Engineering for prevention and control of emissions.

Requirements - Condition 3.3.1 states fugitive emissions of substances shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures have been taken to prevent or where that is not practicable to minimise those emissions.

***Findings* -**

- Slight odour and small emissions (~100ppm) around Pot 8 and Gas well D256. Both items should be monitored for any further deterioration.
- At the bisect of the existing and the newly completed capping on the N/NE Flank around ~1,500ppm methane was detected. This may be a cap defect or could be related to emissions detected from the two wells listed below.
- Connecting pipe work falls from D288, D289 and unnamed pin well adjacent to D289 were poor. As a result all 3 connecting legs to the gas extraction system were filled with significant amounts of condensate.

As a result these findings have been scored a **Category 3 CCS** score at present due to lack of appropriate measure to minimise emissions. This is subject to review if the suggested actions are not implemented.

Action(s) - As detailed overleaf

E1 - Emissions, Air

Requirements - Condition 3.3.5 states the limits for landfill gas arising from the installation shall not exceed the limits set in table S.4.11.

Findings - Fugitive emissions around landfill gas and leachate infrastructure were assessed using a Gazomat portable methane detector. The following fugitive landfill gas emissions were recorded:

- Gas Well D254 has a significant emission from the base of up to 15% methane (150,000ppm) outside of the boot detail. This well exhibited little to no flow, so I suspect it could be compromised by high liquid levels given its location. It should be dipped / surveyed to confirm.

- Gas Well D253 has a significant emission from the base of up to 12% methane (120,000ppm) outside of the boot detail. This well exhibited little to no flow, so I suspect it could be compromised by high liquid levels given its location. It should be dipped / surveyed to confirm.
- Gas Well D279 recorded ~1,200ppm outside of the boot detail. This well was flowing so could be a sealing / capping issue.
- Leachate Tower LLAL00C3 had ~2,000ppm detected from the bentonite within the concrete ring. However, the boot detail on this infrastructure appears to be working well with no emission external to the concrete ring detected. Suggest resealing and possibly extra extraction.
- Gas Well D289 up ~3500ppm methane from the base and flow compromised.
- Gas Well D288 up to ~10,000ppm methane from base and little to no flow.
- Gas Well D294 ~3000ppm methane from the base although was flowing. May be inhibited by high leachate levels and should be investigated.
- Gas Well D295 ~1500ppm methane from the base although was flowing. May be inhibited by high leachate levels and should be investigated.
- Gas Well D296 ~5000ppm methane from the base although was flowing although did have a pump present. Suggest resealing.
- Gas Well D268 ~15% (150,000ppm) methane from base with no flow. Significant odour around this well.
- Gas Well D267 ~5,000ppm methane from base with no flow. Significant odour around this well.

The fugitive emissions identified during the audit have been scored a **Category 3 CCS** score at present, subject to future review if emissions increase or are not addressed in a timely manner.

Action(s) - As listed overleaf

In summary: The condition and level of emissions recorded from the gas wells on the “plateaued” area of Phase 3A North is currently of concern. We recommend the suitability of these wells is reviewed by 3C Waste and Infinis as soon as is practicable. Left unchecked this area of the site may start to generate significant odour problems moving into autumn with the cooler weather, especially given the levels of H₂S generated by the site. It is also your responsibility to reduce / minimise these sorts of emissions from a climate change / greenhouse gas emission perspective.

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Section 3- Enforcement Response		Only one of the boxes below should be ticked	
You must take immediate action to rectify any non-compliance and prevent repetition. Non-compliance with your permit conditions constitutes an offence and can result in criminal prosecutions and/or suspension or revocation of a permit. Please read the detailed assessment in Section 2 and the steps you need to take in Section 4 below.			
Other than the provision of advice and guidance, at present we do not intend to take further enforcement action in respect of the non-compliance identified above. This does not preclude us from taking enforcement action if further relevant information comes to light or advice isn't followed.			☐
In respect of the above non-compliance you have been issued with a warning. At present we do not intend to take further enforcement action. This does not preclude us from taking additional enforcement action if further relevant information comes to light or offences continue.			☒
We will now consider what enforcement action is appropriate and notify you, referencing this form.			☐

Section 4- Action(s)			
Where non-compliance has been detected and an enforcement response has been selected above, this section summarises the steps you need to take to return to compliance and also provides timescales for this to be done.			
Criteria Ref.	CCS Category	Action Required/Advised	Due Date
See Section 1 above			
B1	C3	Gas collection pipe work should be redirected to ensure efficient extraction and removal of areas where condensate may be generated.	As soon as possible.
E1	C3	Gas wells with a high level of fugitive emissions should be investigated for high levels of perched leachate or defective bentonite seals. These wells should be pumped or resealed to reduce levels of fugitive emissions below 1000ppm as required by the permit.	22/10/15

Section 5 - Compliance notes for the Operator

To ensure you correct actual or potential non-compliance we may

- advise on corrective actions verbally or in writing
- require you to take specific actions in writing
- issue a notice
- require you to review your procedures or management system
- change some of the conditions of your permit
- decide to undertake a full review of your permit

Any breach of a permit condition is an offence and we may take legal action against you.

- We will normally provide advice and guidance to assist you to come back into compliance either after an offence is committed or where we consider that an offence is likely to be committed. This is without prejudice to any other enforcement response that we consider may be required.
- Enforcement action can include the issue of a formal caution, prosecution, the service of a notice and or suspension or revocation of the permit.

See our Enforcement and Civil Sanctions guidance for further information

This report does not relieve the site operator of the responsibility to

- ensure you comply with the conditions of the permit at all times and prevent pollution of the environment
- ensure you comply with other legislative provisions which may apply.

Non-compliance scores and categories

CCS category	Description	Score
C1	A non-compliance which could have a major environmental effect	60
C2	A non-compliance which could have a significant environmental effect	31
C3	A non-compliance which could have a minor environmental effect	4
C4	A non-compliance which has no potential environmental effect	0.1

Operational Risk Appraisal (Opra) - Compliance assessment findings may affect your Opra score and/or your charges. This score influences the resource we use to assess permit compliance.

Section 6 – General Information

Data protection notice

The information on this form will be processed by the Natural Resources Wales (NRW) to fulfill its regulatory and monitoring functions and to maintain the relevant public register(s). The NRW may also use and/or disclose it in connection with:

- offering/providing you with its literature/services relating to environmental matters
- consulting with the public, public bodies and other organisations (e.g. Health and Safety Executive, local authorities) on environmental issues
- carrying out statistical analysis, research and development on environmental issues
- providing public register information to enquirers
- investigating possible breaches of environmental law and taking any resulting action
- preventing breaches of environmental law
- assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental Information Regulations request.

The NRW may pass it on to its agents/representatives to do these things on its behalf. You should ensure that any persons named on this form are informed of the contents of this data protection notice.

Disclosure of information

The NRW will provide a copy of this report to the public register(s). However, if you consider that any information contained in this report should not be released to the public register(s) on the grounds of commercial confidentiality, you must write to your local area office within twenty working days of receipt of this form indicating which information it concerns and why it should not be released, giving your reasons in full.

Customer charter

What can I do if I disagree with this compliance assessment report?

If you are unable to resolve the issue with your site officer, you should firstly discuss the matter with the officer's line managers. If you wish to raise your dispute further through our official Complaints and Commendations procedure, phone our general enquiry number 0300 065 3000 (Mon to Fri 08.00–18.00) and ask for the Customer Contact team or send an email to enquiries@naturalresourceswales.gov.uk. If you are still dissatisfied you can make a complaint to the Public Services Ombudsman for Wales. For advice on how to complain to the Ombudsman phone their helpline on 0845 607 0987.