

Compliance Assessment Report

Report ID:
CAR_NRW0031387

This form will report compliance with your permit as determined by an NRW officer

Site	Pwllfawtkin Landfill Site EPR/BU8819IV	Permit Ref	BU8819IV			
Operator/Permit holder	FCC Waste Services (UK) Limited					
Regime	Installations					
Date of assessment	16/03/2017 - 17/03/2017	Time in	N/A	Out	N/A	
Assessment type	Report/Data Review					
Parts of the permit assessed	4.2.1 Auunal report and preformance data					
Lead officer's name	Thomas, Ffion					
Accompanied by						
Recipient's name/position	Richard Thomas/ Site Manager	Date issued	17/03/2017			

Section 1 – Compliance Assessment Summary

This is based on the requirements of the permit under the Environmental Permitting Regulations or the licence under the Water Resources Act 1991 as amended by the Water Act 2003. A detailed explanation is captured in "Compliance Assessment Report Detail" (Section 2) and any actions you may need to take are given in the "Action(s)" (section 4). 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	CCS Category	Condition(s) breached
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KEY: See Section 5 for breach categories, suspended scores will be indicated as such.

A = Assessed or assessed in part (no evidence of non-compliance), **X** = Action only,

O = Ongoing non-compliance, not scored.

Number of breaches recorded	0	Total compliance score (see section 5 for scoring scheme)	0
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If the Number of breaches recorded is greater than zero, please see Section 3 for 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 (eg. 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 advice given
- Any other areas of concern
- Any actions requested
- Any examples of good practice
- A reference to photos taken

This Compliance Assessment Report (CAR) form has been completed following review of the Pwllfawatkin Landfill Site Annual Environmental Data Review 1st January 2016- 31st December 2016.

The report was received via email on the 28/2/17 as per permit condition 4.2.1 9and following an agreed submission timeframe extension)

No compliance issues arose from tge annual report as emission breaches discussed have been previously assessed throughout the year.

The following discussion comments are made against the 2016 annual report headings for consideration.

2.1 Perimeter gas: 100% compliance for both methane and carbon dioxide is commended.

2.2 Surface emissions: monthly FID surveys detected no emissions in 2016 and is again a commended reflection of the permanent and temporary capping works that have been undertaken at the site.

2.3 In waste gas wells: No compliance levels set however any >5% oxygen readings result in remedial action. Appendix B of the annual report demonstrates how any exceedance of the 5% oxygen emission has been rebalanced and the sampling results show the levels brought back under 5% in a very short timeframe. An audit was undertaken on 22 July 2017 looking specifically at gas management at the site. No compliance issues were identified and the GMP found to be robust.

2.4 point source emissions: There appears to be a typographical error in the total gas volumes (2015 should read 2016) The levels reported were:

LFG to generation: 2,579,000m³

LFG to flare: 101,000m³

Generated power: 4,260MKWh

There has been a decrease from 2015 of LFG generation, but also a reduction in the amount flared. Due to the decline in gas generation Infinis have removed an engine, with only 1 operational engine now on site. (An action was assigned in the compliance report CAR NRW0023813 to update the GMP and GRA to reflect these changes)

3.0 leachate levels and quality: Phase 1 compliance is noted. The leachate foaming issues related to wells in phase 2 had previously been brought to my attention during technical working group meetings. It is understood the investigations are on going and no compliance scores were recorded as evidence was provided confirming the foaming was the issue and not a reflection of the leachate levels. Leachate management and the foaming issue will be audited following the FCC submission of a report. Some research into the reasons for foaming, dispersants used and confirmation of the type of dip meter used will be undertaken to try and better understand the issues.

Whilst the 2016 volumes removed had an increase on previous years, perm and temp capping continue to progress at the site and verbal reports received from site on 17/3/17 suggest sumps are now empty, further highlighting FCC Pwllfawatkis commitment to leachate management.

Leachate quality: phase 1 (closed non-operational) is indicative of methanogenic process. Phase 2 is operational.

The HRA re-submittal has now been received and has been passed to NRW's Geoscience team for technical review. Comments and conclusion will be forwarded once available.

4.0 Groundwater levels and quality: A typographical error of ground water sump extraction should read 2016.

The HRA discusses the ceasing of sump pumping. Further comment will be made following the HRA review.

Ground water quality monitoring was assessed under separate CAR following schedule 6 notification.

5.0 Surface water: There were no compliance issues throughout 2016 related to surface water emissions.

6.0 General summary & conclusions: the summary is agreed bar one point. The leachate levels for phase 2 need further investigatory work related to foaming.

7.0 recommendations: acknowledged.

Performance data: In addition to the annual report, Pwllfawatin also report on the sites annual performance parameters as per condition 4.2.2, these were received and further confirmed by email received 7/2/17 The detail of the condition and data submitted has been included below:

- 4.2.1 A report or reports on the performance of the activities over the previous year shall be submitted to the Agency by 31 January (or other date agreed in writing by the 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 this permit against the relevant assumptions, parameters and results in the risk assessments submitted with the application;
 - (b) where the operator's management system encompasses annual improvement targets, a summary report of the previous year's progress against such targets;
 - (c) the energy consumed at the site, reported in the format set out in schedule 5 table S5.3
 - (d) the water consumed at the site, reported in the format set out in schedule 5 table S5.3;
 - (e) the annual production/treatment set out in schedule 5 table S5.2;
 - (f) details of any contamination or decontamination of the site which has occurred;

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- (g) the topographical surveys required by condition 3.6.3 other than those submitted as part of a CQA validation report;
 - (h) the volumetric difference (reported in cubic metres) between the most recent topographical survey and the previous annual topographical survey i.e. the additional volume of the landfill void that is occupied by waste;
 - (i) an assessment of the settlement behavior of the landfill body based on the difference between the most recent topographical survey and previous annual topographical survey for the areas of the landfill which did not receive waste between the surveys;
 - (j) a calculation of the remaining capacity (reported in cubic metres) derived from the pre-settlement contours and the most recent topographical survey; and
 - (k) the compliance testing undertaken in the period.

4.2.2

(a)

Gas – Gas compliance remains very high with little room for improvement.

Leachate – Leachate compliance is currently 100%, no improvement possible.

(b) Energy Consumed

Table S5.3 Performance Parameters			
Parameter	Frequency of Assessment	Annual Total	Unit
Potable Water Use	Annually	1976 estimated	cubic meters
Energy Used (including for leachate treatment)	Annually	7854.15	MWh of electricity
Non Potable water use	Annually	0	cubic meters

(c)

Table S5.2: Annual Production Treatment Pwllfawatkyn	
Leachate	Cubic metres/year
Disposed of off site	27336.89
Disposed of to any onsite effluent treatment plant	0
Recirculated into the waste mass	0
Surface water and / or groundwater	Cubic metres/year
Disposed <u>off</u> of site	not recorded
Disposed of to any onsite effluent treatment plant	0
Landfill Gas	Normalised cubic metres/year
Combustion in flares	106,000
combustion in gas engines	4,435,000
Other methods of gas utilisation	0
Average methane content entering the landfill gas utilisation or treatment compound (based on the annual average of Table S3.10 monitoring)	48.6% methane v/v

(d) Topo Survey 479A421

(e) Volumetric difference 107,006m³

(g) Plan 479A421

(h) 107,006m³

(i) see attached Settlement Behaviour

(j) Remaining Void 1,062,629m³

The performance data and annual report illustrates the good management and compliance of Pwllfawatkyn landfill and it continues to be a very good performing site.

End.

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EPR Compliance Assessment Report

Report ID:
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This form will report compliance with your permit as determined by an NRW officer

Site	Pwllfawatkin Landfill Site EPR/BU8819IV	Permit Ref	BU8819IV
Operator/Permit holder	FCC Waste Services (UK) Limited	Date	16/03/2017

Section 3 – Enforcement Response

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.

Section 4 – Action(s)

This section summarises the actions identified during the assessment along with the timescales for when they will need to be completed.

Criteria Ref.	CCS Category	Action required/advised	Due Date
See Section 1 above			

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 verbally or 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 that 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 fulfil 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 (eg. 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
- Assessing customer service satisfaction and improving its service
- Freedom of Information Act/Environmental 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 fifteen 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 officer's line managers using the informal appeals procedure. 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.

Welsh Language

If you would like this form in Welsh please contact your Regulatory Officer.