

Notice of variation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Integrated Waste Management Limited

Immingham Landfill Site
Queens Road
Immingham
Lincolnshire
DN40 1QR

Variation application number

EPR/PP3830BV/V005

Permit number

EPR/PP3830BV

Immingham Landfill Site

Permit number EPR/PP3830BV

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

The scope of this variation is to:

1. Install a reverse osmosis (RO) plant at the site to treat the leachate. It is proposed that the permeate will discharge to sewer and the concentrate tankered offsite for further treatment.
2. Remove the CO₂ limits from the current permit and include the calculated compliance limits, based on ICoP, in the Landfill Gas Management Plan
3. Remove CH₄ action (control) limits from the permit. The compliance limits will be retained with no change
4. Increase permitted tonnages of wastes for restoration
5. Reflect a previously agreed revision to the ammoniacal nitrogen trigger level within BH4a.

The schedules specify the changes made to the original permit.

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 - PP3830BV	Received 09/11/04	Re-submitted 03/12/04
Response to request for further information	Request dated 19/05/05	Response dated 27/07/05 Response dated 05/09/05
Request from EA to extend determination	Request dated 01/08/05	Response dated 09/08/05
Permit determined - PP3830BV	14/11/05	
Application for variation - KP3931XZ	Received 10/10/07	
Permit varied - KP3931XZ	30/05/08	
Agency variation determined EPR/PP3830BV/V003	29/05/13	Agency variation to implement the changes introduced by IED
Administrative variation determined EPR/PP3830BV/V004	08/10/13	
Application EPR/PP3830BV/V005 (variation)	Duly made 10/06/16	Application to install a reverse osmosis plant for leachate treatment, to remove CO ₂ limits according to ICoP, remove CH ₄ action limits and leave only compliance limits, increase waste for restoration values, reflect an agreed revision to a groundwater trigger level.
Variation determined EPR/PP3830BV (EPR Billing reference - JP3433DH)	08/11/2016	Varied permit issued.

End of introductory note

Notice of variation

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

Permit number

EPR/PP3830BV

Issued to

Integrated Waste Management Limited ("the operator")

whose registered office is

**Ground Floor West
900 Pavilion Drive
Northampton Business Park
Northampton
Northamptonshire
NN4 7RG**

company registration number **02433703**

to operate a regulated facility at

**Immingham Landfill Site
Queens Road
Immingham
Lincolnshire
DN40 1QR**

to the extent set out in the schedules.

The notice shall take effect from 08/11/2016

Name	Date
Philip Lamb	08/11/2016

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

The following condition is deleted as a result of the application made by the operator

2.2.2.7 No emission from the permitted installation shall be made to sewer.

Schedule 2 – conditions to be amended

The following conditions are amended as a result of the application made by the operator

Table 1.1.1 as referenced by condition 1.1.1 is amended to read:

Table 1.1.1 activities		
Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
Section 5.2 Part A(1)(a) The disposal of waste in a landfill	Landfill for non-hazardous waste (landfill classification under the Landfill Regulations 2002).	Receipt, handling, storage and disposal of non-hazardous wastes, consisting of the types and quantities specified in condition 2.1.2, as an integral part of landfilling.
Section 5.4 Part A(1)(a)(ii) Disposal, recovery or a mix of disposal and recovery of non-hazardous waste	Treatment of leachate in a facility with a capacity of >50 tonnes/ day D9 Physico-chemical leachate treatment	Leachate arising from the landfill.
Directly Associated Activity		
Burning of waste as a fuel	Combustion of landfill gas for the purpose of electricity generation	Landfill gas arising from the Permitted landfill.
Leachate management	Storage of leachate pending recirculation on site or treatment/disposal off site.	Leachate arising from the Permitted landfill
Landfill gas flaring	Flaring of landfill gas not utilised	Landfill gas arising from the biodegradation of waste at the Permitted Installation that cannot be utilised by the gas engines.
Water discharges to controlled waters	Discharge of site drainage from the landfill	From surface water management system to points of entry to controlled waters.
Fuel storage	Storage of fuel for operation of plant and equipment	From fuel storage tank(s)
Water discharges to foul sewer	Discharges of site drainage from the landfill.	From reverse osmosis plant to foul sewer
Pipe work	Pipe work between the leachate treatment plant and public sewerage system	From the point of discharge from the reverse osmosis plant to the point where responsibility for the pipe work falls to a third party.

Improvement condition 8 is added to Table 1.4.1 as referenced by condition 1.4.1:

Table 1.4.1: Improvement programme requirements		
Reference	Requirement	Date
9	The operator shall submit to the Environment Agency for approval details of the waste types, quantities and acceptance criteria for wastes that are and will be accepted on site for the purpose of landfill restoration.	14/05/2017

Table 2.1.1 as referenced by condition 2.1.1 is amended to read:

Table 2.1.1: Operating techniques		
Description	Parts	Date Received
Application	The response to questions, 2.1, 2.2, 2.3, 2.4 and 2.5 in Part B of the Application Form, relevant sections of the supporting documentation excluding sections B2.2.29 - 2.2.32, B2.2.36 – 2.2.38, B2.2.39 – 2.2.41 and B2.2.42 and Hydrogeological Risk Assessment (HRA) Section 3.3, Table HRA14 and 15 and Addendum report Section H11 Tables RFI5 and 6	08/11/2004 (Application) 03/12/2004 (Re-submitted Application) 27/07/2005 (Request for Information Response) 05/09/2005 (HRA Request for Information response)
Application variation EPR/PP3830BV/V00 5	Referenced supporting information: Consent to discharge of trade effluent – document ref: ACZ 330, dated 2 July 2015 Activities & Operating Techniques Report – document ref: 2478.03.FCC.AGS.LS.A0, dated 30 March 2016 Reverse osmosis process description & SGN 5.03 indicative BAT review – document ref: 2478.04.FCC.AGS.LS.A0, dated 30 March 2016 Immingham Landfill: Hydrogeological Risk Assessment Review – document ref: 6670R7, dated 7 October 2014 Landfill Gas Management Plan – no ref, dated June 2016	Duly made as of 10/6/2016
Response to Schedule 5 notice. Application variation EPR/PP3830BV/V00 5	Amended Environmental Monitoring Plan - drawing no. 2478.06, dated 30 March 2016 RO Plant, Indicative infrastructure detail – drawing no. 2078.08, dated 30 March 2016 RO process description & SGN 5.03 indicative BAT review - document ref: 2478.04.FCC.AGS.LS.A1, dated 10 August 2016 Amenity and Accident Risk Assessment - document ref: 2478.06.FCC.NW.AGS.A1, dated 30 August 2016 Training Plan: Reverse Osmosis Plant – document ref: RO-11_070_3_02, dated 14 August 2016 Leachate Treatment Reverse Osmosis Plant, Technical Documentation, Operation Manual - document ref: RO-11_070_3_0, undated RO Maintenance Plan - document ref: RO- RO-11_070_3_02, undated	Response to Schedule 5 notice on 7 th September 2016

Table 2.2.8 as referenced by condition 2.2.3.4 is amended to read:

Table 2.2.8: The trigger levels for emissions into groundwater				
Monitoring point reference	Substances	Trigger level	Monitoring frequency	Monitoring method
Borehole 2a	Ammoniacal Nitrogen	8.93mg/l	Quarterly	In accordance with guidance in LFGTN02
	Cadmium	0.012mg/l		
	Cyanide	0.1mg/l		
	Mercury	0.0002mg/l		
Borehole 2a	Naphthalene	0.01mg/l	Annually	In accordance with guidance in LFGTN02
Borehole 4a	Ammoniacal Nitrogen	15.28mg/l	Quarterly	In accordance with guidance in LFGTN02
	Chromium	0.09mg/l		
	Copper	0.05mg/l		
	Nitrate	12.91mg/l		
	Zinc	0.45mg/l		
Borehole 4a	Mercury	0.0001mg/l	Annually	In accordance with guidance in LFGTN02
	Naphthalene	0.01mg/l		
	Cadmium	0.018mg/l		
	Cyanide	0.1mg/l		
Borehole 8 Borehole 26	Ammoniacal Nitrogen	3.64mg/l	Quarterly	In accordance with guidance in LFGTN02
	Chloride	100mg/l		
	Potassium	100mg/l		
	Chromium	0.03mg/l		
	Copper	0.03mg/l		
	Zinc	0.08mg/l		
	Mecoprop	0.00004mg/l	Annually	In accordance with guidance in LFGTN02
	Mercury	0.0001mg/l		
	Naphthalene	0.001mg/l		
	Cadmium	0.001mg/l		
	Cyanide	0.2mg/l		

Table 2.10.11 as referenced by condition 2.10.11 is amended to read:

Table 2.10.11. Landfill gas in external monitoring boreholes – limits and monitoring requirements				
Monitoring point Ref. /description as shown on Drawing 2478.06 dated 31/03/2016, or such later version agreed in writing with the Agency	Parameter	Limit (% v/v)	Monitoring frequency	Monitoring standard or method
BH2A, BH3A, BH4A, BH6A, BH7, BH7A, BH8, BH9, BH10, BH11, BH12, BH13, BH18, BH19, BH20, BH21, BH22, BH23, BH24, BH25, BH26, BH27	Methane	1.0	Monthly	As per LFTGN03 (Sept 2004) or such other subsequent guidance as may be agreed in writing with the Environment Agency. Record whether the ground is: waterlogged frozen snow covered
BH1A		1.3		
BH5A		2.1		
BH8A		4.3		
BH1A, BH2A, BH3A, BH4A, BH5A, BH6A, BH7, BH7A, BH8, BH8A, BH9, BH10, BH11, BH12, BH13, BH18, BH19, BH20, BH21, BH22, BH23, BH24, BH25, BH26, BH27	Carbon Dioxide	No limit		
BH1A, BH2A, BH3A, BH4A, BH5A, BH6A, BH7, BH7A, BH8, BH8A, BH9, BH10, BH11, BH12, BH13, BH18, BH19, BH20, BH21, BH22, BH23, BH24, BH25, BH26, BH27	Oxygen	No Limit		
	Atmospheric Pressure	No limit		

Schedule 3 – conditions to be added

The following conditions are added as a result of the application made by the operator

2.2.2.7 There shall be no point source emissions to sewer except from the sources and emission points listed in table 2.2.6.

Table 2.2.6 as referenced by condition 2.2.2.7 is added to read:

Table 2.2.6 Point source emissions to sewer, effluent treatment plant or by tankering or other transfer off-site – emission limits and monitoring requirements						
Emission point Ref. & Location	Parameter	Source	Limit (including unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
S1 – discharge point; MP1 – monitoring point “RO plant proposed rising main route” no 2478.03, dated on 31/03/2016	Volume	Main Process Effluent	100 m ³ /day	1 day	Quarterly	Flow monitoring will be done in accordance with the standard required by the trade effluent consent and as agreed with the Agency