

Variation notice with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Whiscombe Hill Landfill

Westcombe Waste Limited
Somertonfield Road
Westcombe
Somerton
Somerset
TA11 6HY

Variation notice number
EPR/QP3230LE/V002

Permit number
EPR/QP3230LE

Whiscombe Hill Landfill Site Permit number EPR/QP3230LE

Introductory note

This introductory note does not form a part of the permit

The following notice, which is issued pursuant to regulation 20 and Part 1 of Schedule 5 of the Environmental Permitting (England and Wales) Regulations 2010 S.I.2010 No. 675 (the Regulations), gives notice of the variation of an environmental permit to operate a regulated facility.

This variation to the existing EPR Permit includes the addition of biological and physical treatment of landfill leachate utilising a SAF (Submerged Aeration Filter) and an open lagoon treatment system as Schedule 1 listed activity's within the current EPR permit. The treatment facility is primarily required to reduce Ammoniacal Nitrogen levels to levels which comply with the installations trade effluent discharge consent issued by Wessex Water Services Limited. The variation notice also amends the monitoring frequency for the waste leachate wells from weekly to monthly and permits the use of fines material produced from the waste recycling facility to be used as daily cover material.

Also included as variations to the existing EPR permit are a number of Environment Agency/Operator agreed amendments including the removal of ELV's for Chloride and Ammonia within raw leachate, revised CO₂ trigger levels for external monitoring boreholes and an amended electrical conductivity ELV for groundwater underdrain discharge.

Schedule 1 of this notice lists any deleted conditions, Schedule 2 lists any amended conditions, Schedule 3 lists any conditions that have been added and Schedule 4 shows any changes to the plan.

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

Status Log of the permit		
Detail	Date	Response Date
Application QP3230LE	Received 30/11/2005	Duly Made 30/11/2005
Response to Schedule 4 request	Request dated 13/01/2006	Response dated 02/02/2006
Permit determined	08/12/2006	
Application EPR/QP3230LE/V002	17/03/2010	
Schedule 5 request for further information	10/06/2010	14/07/2010
Variation EPR/QP3230LE/V002 issued	07/12/10	

Other Part A installation permits relating to this installation		
Operator	Permit Number	Date of Issue
Westcombe Waste Limited (Waste Transfer/Recycling Facility only)	EAWML26022	01/03/2001

End of Introductory Note

Notice of variation

Environmental Permitting
(England and Wales) Regulations 2010

Permit number

EPR/QP3230LE

The Environment Agency in exercise of its powers under Regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 (SI 2010 No 675) varies the permit as set out below.

Westcombe Waste Limited ("the operator"),

whose registered office is

Whiscombe Hill

Westcombe Road

Somerton

Somerset

TA11 6HY

company registration number 02205997

holds a permit to operate a *regulated facility* at

Whiscombe Hill Landfill Site

Somertonfield Road

Westcombe

Somerton

TA11 6HY

and that permit is varied to the extent set out in Schedules 1 to 4 of this notice.

The notice shall take effect from 07th December 2010

Name	Date
A. J. Nixon	07 December 2010

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

None.

Schedule 2 – conditions to be amended

The following conditions are amended as follows :

1. Table S1.1 as referenced in conditions 2.1.1 is amended as follows:

Table S1.1 Activities		
Activity listed in Schedule 1 of the PPC Regulations	Description of specified activity	Limits of specified activity
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 wastes, consisting of the types and quantities specified in conditions 2.8 and Schedule 3, as an integral part of landfilling.
Section 5.3, Part A(1)(c)(i), Biological Treatment	Disposal of non-hazardous waste by Biological treatment (Leachate Treatment) with a capacity of >50 t/day D8: Biological Treatment	Treatment of leachate shall only take place from Whiscombe Hill Landfill site. Leachate shall only be discharged to the sewer at point as shown on drawing reference EM1196/WM172/NMP01 dated March 2010
Section 5.3, Part A(1)(c)(ii), Physical Treatment	Disposal of non-hazardous waste by physico-chemical treatment (Leachate Treatment) with a capacity of >50 t/day D9 : Physico-chemical treatment	Only wastes with the EWC code 190703 shall be permitted and no more than 65m ³ /day of treated leachate shall be discharged.
Directly Associated Activity		
Leachate management	Extraction and storage of leachate prior to removal off-site.	Leachate arising from the landfill.
Landfill gas utilisation.	Utilisation of landfill gas for energy recovery in a appliance <3 MW rated thermal input	Landfill gas arising from the Permitted landfill
Landfill gas flaring	Flaring of landfill gas for disposal in an appliance.	Landfill gas arising from the Permitted landfill
Leachate discharge to foul sewer	Discharge of leachate from the landfill.	From leachate management system to point of entry to sewer (including tankering off-site)
Water discharges to controlled waters.	Discharges of site drainage and the under-cell groundwater drainage system at the landfill.	From surface water management system to point of entry to controlled waters.

2. Table S1.2 as referenced in conditions 2.3.1 is amended as follows:

Table S1.2 Operating Techniques		
Description	Parts	Date Received
Application	The response to questions 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 2.7, 2.8, 2.9, 2.11 and 3.1 in Part B of the Application Form. Excluding- • Application - Table 2.1, Volume 3, appendix 10 Waste Throughput • Application – All references to asbestos disposal • Application – All references to the recycling operation	30/11/2005
	Response to Schedule 4 - request for information, request dated 13/01/2006	02/02/2006
	Final post-settlement drawings 5018355/LA/4902 Rev. B and 5018355/LA/4903 Rev. C	20/10/2006
Site Protection and Monitoring Plan	Site Protection and Monitoring Plan submitted in response to condition 2.11 of this permit.	
Substantial Variation Application EA/EPR/QP3230LE/V002	Response to questions Form EPC – Part C	17/03/2010
Response to Schedule 5 notice dated 10/06/2010.	The response to questions Q2, Q4, Q5, Q6, Q7, Q8, Q12 and Q16 only	14/07/2010

Condition 3.4.1 is amended as follows:

3.4.1 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.

Condition 3.5.1 is amended as follows:

3.5.1 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. Table S4.1 referenced in condition 2.9.1, 3.3.6 and 3.6.1 is amended as follows:

Table S4.1 Leachate level limits and monitoring requirements				
Monitoring point reference/ Description	Parameter	Limit	Monitoring frequency	Monitoring method
Well 1 and Well 2	Leachate Level	1.0 m above top of basal liner	Monthly	Monitoring to be carried out in accordance with Environment Agency Document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" LFTGN02 unless otherwise approved in writing with the Agency.

4. Table S4.3 referenced in condition 3.1.1, 3.1.3, and 3.6.1 is amended as follows:

Table S4.3 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
Groundwater underdrain discharge point into Whiscombe Brook.	pH EC NH ₄ -N COD	Sub liner ground-water drainage system	7 - 8 1750 µs/cm 0.5 mg/l 75 mg/l	Spot Sample	Weekly for first 6 months then Monthly	Monitoring to be carried out in accordance with Environment Agency Document "Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water" LFTGN02 unless otherwise approved in writing with the Agency.
	Cl DO		120 mg/l 20%		Monthly	
	Na, K, Mg, Ca, Alk, SO ₄ , TON, TOC, Fe, Mn, Cd, Cr, Cu, Ni, Pb, Zn.		No limits		Quarterly	
	List 1 substances and MRV (minimum reporting value) as published in the Agency's technical guidance document LFTGN01, "Hydrogeological risk assessment for landfills and the derivation of groundwater control and trigger levels", Appendix 7.st 1 Suite*		MRV for all List 1 substances detected*		Annually	

5. Table S4.4 referenced in condition 3.1.1, 3.1.3 and 3.6.1 is amended as follows:

Table S4.4 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 (incl unit)	Reference Period	Monitoring Frequency	Monitoring Standard or Method
HSAF outlet flow meter, prior to discharge to sewer at Bancombe Road. As shown on drawing EM1196/WM172/NMP01 dated March 2010.	Flow Rate	Treated Leachate arising from the landfill.	65m ³	Daily	Continuous	MCERTS certificated flow meter. (Subject to improvement condition Table S1.3, IC18)

6. Table S4.5 referenced in condition 3.2.3 and 3.6.1 is amended as follows:

Table S4.5 Trigger levels for emissions into groundwater and monitoring requirements					
Monitoring point reference	Parameter	Limit (including unit)	Reference Period	Monitoring frequency	Monitoring standard or method
Up Gradient boreholes BH6, BH8. identified on Drawing HRA2	pH, Temp. EC, NH ₄ -N, Cl, COD, DO, Level	None	Spot Sample	Quarterly	Monitoring to be carried out in accordance with Environment Agency Document “Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water” LFTGN02 unless otherwise approved in writing with the Agency.
	Na, K, Mg, Ca, Alk, SO ₄ , TON, TOC, Fe, Mn, Cd, Cr, Cu, Ni, Pb, Zn.			6 Monthly	
	List 1 Screen			Annually	
Down Gradient – BH15, BH18 and BH19. identified on Drawing HRA2	pH NH ₄ -N Cl Fe	6 – 8 0.50 mg/l 65 mg/l 60 mg/l	Spot Sample	Quarterly	
	Temp. EC, COD, DO, Level	None		Quarterly	
	Na, K, Mg, Ca, Alk, SO ₄ , TON, TOC, Fe, Mn, Cd, Cr, Cu, Ni, Pb, Zn.	None		6 Monthly	
	List 1 Screen*	MRV's*		Annually	
*List 1 substances and MRV (minimum reporting value) as published in the Agency’s technical guidance document LFTGN01, “Hydrogeological risk assessment for landfills and the derivation of groundwater control and trigger levels”, Appendix 7.					

7. Table S4.6 referenced in condition 3.3.5 and 3.6.1 is amended as follows:

Table S4.6 Landfill gas in external monitoring boreholes – limits and monitoring requirements				
Monitoring point Ref. /description	Parameter	Limit (including units)	Monitoring frequency	Monitoring standard or method
Combined gas and groundwater monitoring boreholes 2A, 3, 4, 6, 7, 8, 11, 12A, 15, 16A, 17, 18A, 19A, 20, 21, 21A	Methane	1%v/v	Monthly	Monitoring to be carried out in accordance with Environment Agency Document "Guidance on Monitoring of Landfill Gas" LFTGN03 unless otherwise agreed in writing with the Agency.
	Carbon Dioxide	4.6%v/v		
	Oxygen	no limit		
	Atmospheric pressure	no limit		
	Differential Pressure	no limit		
	Temperature	no limit		
	Meteorological data	no limit		

8. Table S4.9 as referenced in conditions 3.6.1 is amended as follows:

Table S4.9 Leachate– other monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications Emission Limit*
BH17A , Well 1, Well 2, and new leachate out-fall manhole prior to discharge to sewer.	Leachate Level	Monthly	Monitoring to be carried out in accordance with Environment Agency Document “Guidance on Monitoring of Landfill Leachate, Groundwater and Surface Water” LFTGN02 unless otherwise approved in writing with the Agency.	None.
	pH	Monthly		
	Temperature			
	Electrical Conductivity			
	Chloride			
	NH4-N	6 monthly		
	Sodium			
	Potassium			
	Magnesium			
Calcium				
Alkalinity				
Sulphate				
TON				
TOC				
Iron				
Manganese				
Cadmium				
Chromium				
Nickel				
Lead				
Zinc				
Depth to base of monitoring well.				
List 1 screen*	Annually			

9. Table S5.1 as referenced in conditions 4.2.2 is amended as follows:

Table S5.1 Reporting of monitoring data			
Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Leachate levels (S4.1) As required by condition 3.6.1	All new leachate monitoring points installed in Phase 2 in accordance with Improvement Condition Table S1.3(5).	Every 3 months	On permit issue
Emissions to air (S4.2) Parameters as required by condition 3.6.1	Gas Engine and/or Flare	Every 12 months	On installation
Emissions to water (S 4.3 and S4.4) Parameters as required by condition 3.6.1	Groundwater underdrain discharge point into Whiscombe Brook	Every 3 Months	On permit issue
	HSAF outlet flow meter prior to discharge to sewer.		07/12/10
Groundwater (S4.5) Parameters as required by condition 3.6.1 List 1 Screen	BH6, BH8, BH15, BH18 BH19	Every 3 Months List 1 -Every 12 months	On permit issue
Landfill gas surface emissions (S4.7) Parameters as required by condition 3.6.1	Permanent and temporary capped zones	Every 12 months	On permit issue
Landfill gas lateral migration (S4.6) Parameters as required by condition 3.6.1	BH2A, BH3, BH4, BH6, BH7, BH8, BH11, BH12A, BH15, BH16A, BH17, BH18A, BH19A, BH20, BH21 and BH21A	Every 3 months	On permit issue
Other Landfill gas monitoring (S4.8) Parameters as required by condition 3.6.1	All in-waste gas monitoring boreholes	Every 3 months	On permit issue
	Monitoring points associated with gas collection system and Flare	Every 12 months	
Other leachate monitoring (S4.9) Parameters as required by condition 3.6.1 List 1 Screen	BH17A , Well 1, Well 2	Every 3 months List 1 - Every 12 months	On permit issue
Particulate matter (Table S4.10) Parameters as required by condition 3.6.1 and Table S1.3(10)	Monitoring Points to be agreed in accordance with improvement condition Table S1.3(8)	Subject to IC Table S1.3(8)	Subject to IC Table S1.3(8)

Schedule 3 – conditions to be added

The following conditions are added to the permit

1. Table S1.3 (Reference IC18) referenced in condition 2.5.1 is additionally added as follows:

Table S1.3 Improvement Programme Requirements		
Reference	Requirement	Date
IC18	The Operator shall employ an MCERTS qualified Inspector to audit the flow monitoring system and confirm that it complies with the Environment Agency's MCERTS 'Monitoring Certification Scheme'. This condition will be deemed to have been complied with on submission of the MCERTS conformity certificate to the Environment Agency.	03/06/11

2. Table S1.4 (Reference 4) referenced in condition 2.6.1 is additionally added as follows:

Table S1.4 Pre-operational Measures for Future Development		
Reference	Operation	Pre-operational Measures
4	Lagoon Engineering	Submit a written plan to the Environment Agency for approval. The plan must contain proposals for surveying the proposed leachate lagoon structure to enable monitoring of any settlement of the underlying waste that takes place during and after construction and commissioning. The proposals should allow for measurements before construction, before commissioning and for a suitable period of time post commissioning. The plan must contain dates for the implementation of individual measures The notification requirements of condition 2.6.1 will be deemed to have been complied with on submission of the plan. You must implement the plan as approved, and from the date stipulated by the Environment Agency

3. The following definition is additionally inserted into Schedule 7 of the permit:

“MCERTS” means the Environment Agency's Monitoring Certification Scheme.

Schedule 4 – amended plan

None.