

Acceptance Procedure- BFWRF Liquid Waste Reception Tank (LWRT)

Scope

This document is to be used by the Bristol Food Waste Recycling Facility (BFWRF) operated by Wessex Water Services Ltd under Environmental Permit PP3734LK

Purpose

To provide a clear procedure for GENeco and WWSL staff detailing requirements.

To demonstrate compliance with the EA document 'Guidance for the Recovery and the Disposal of Hazardous and Non-Hazardous Waste, Indicative BAT (best available technique) requirements for pre-acceptance'

Driver Induction

All drivers are provided with a site induction on arrival at BFWRF, using document *Site Procedures for Delivery to the GENeco Food Waste Recycling Facility (GENWMP167)*. The induction includes a step-by-step guide to the route that the vehicle should follow, site rules, sampling and when to provide paperwork.

Inductions are completed by BFWRF personnel and on completion drivers are required to sign the *Drivers Induction Signature Sheet –BFWRF (GENWMP167A)* to confirm that the Induction has been completed.

Sampling Regime

On arrival at the Bristol Renewable Energy Park (Sewage Treatment Works) vehicles destined for BFWRF firstly turn right into Bristol Treatment Centre (BTC). Without driving over the weighbridge, the driver should park in the Bay 6 sampling area and report to the TC with a representative sample for acceptance checks. Documents *Road Sampling Techniques (Bristol Treatment Centre) (GENWMP11)* and *Delivery Acceptance Analysis Procedure (GENWMP24)* outlines the procedures for the sampling, analysis and assessment process. Results will be captured in the *Food Waste liquid tanker sampling record*. Acceptance checks will be documented on the form *Liquid Tank Delivery Log – BFWRF (GENWMP184)*. Both spreadsheets are stored in the Food Waste Records folder on SharePoint.

Analysis results are communicated to the BFWRF team on the sample bottle. The BFWRF team check that the results for pH and conductivity are compliant with the Pre-Acceptance Criteria and Waste Acceptance Criteria *PACWAC Volume, Quality & Quantity (GENWMP144)*. If they are not, the delivery will be rejected as per the *BFWRF – Rejection Procedure (GENWMP50)*. The pH of the waste stream is detailed on the Waste Treatment Enquiry Form &/or the Waste Acceptance Agreement that can be referenced as required. Copies of the odour and colour charts are maintained at the BTC for reference.

Arrival at BFWRF Weighbridge

Once the sample has been taken and recorded, the driver drives around the site to the BFWRF weighbridge, they should drive on, park up and leave their vehicle via the platform and steps provided.

The driver then goes into the porta-cabin. If no member of staff is visible, the driver will push the blue notification button located on the post along the pavement from the cabin, to signal to the operator within the food reception hall that the lorry is waiting at the gate.

Paperwork

The driver should present the Plant Operator (BFWRF) with the sample and paperwork that provides all the information required by the EA and AHPA on the equivalent of a Waste Transfer Note or Commercial Document.

Where the load is animal blood, the driver is also required to supply paperwork in addition to the Waste Transfer Note or Commercial Note, signed by a Food Standards Agency (FSA) official confirming that the blood is category 3. For further information on categories of animal by product material please see *Categorisation of Animal by-Product Material (GENWMP145)*. Please Note: **Blood deliveries are suspended indefinitely due to risk of odour and H₂S hazard.**

The Plant Operator will review the content of the paperwork to check that the required information has been provided, verify that the EWC code & waste description are as detailed on the booking form.

The document *Checking and Completing Transfer Notes (GENWMP06)* details the requirements for the completion of Waste Transfer Notes. The **FW ADQP EWC codes** sheet of the *PACWAC Volume, Quality & Quantity* may also be used by the Plant Operator to ensure that any changes to EWC codes does not compromise compliance with the Environmental Permit and ADQP.

Where details are incomplete or incorrect, the Plant Operator will follow one of the following routes: (a) request that the driver corrects the paperwork/sources the correct information or (b) contacts the Customer Service Team for correct information/support.

Once the load has been approved the Plant Operator (BFWRF) will complete the paperwork.

Should a second weight be required the vehicle will return to the weighbridge, with draft paperwork, where the vehicle will be weighed out on the Avery Weighman system. A Delivery Receipt is printed and paperwork is issued to the driver. The vehicle is then ready to exit the site.

Should the waste acceptance assessment be passed & the load approved for treatment, the Plant Operator notifies the driver that he can offload into the tank and complete the transfer note (where applicable).

Prior to arriving/allowing the load to discharge the BFWRF operator will check the MCC display, white light and level to ensure that the tank has adequate space for the load.

The environmental permit requires that all surface water generated by the activity is contained and treated. The culvert was diverted so any waste goes back to the WWTW.

Arrival at Liquid Slurry Tank / Tank Controls

On arrival at the liquid reception tank, the driver reverses the vehicle into place and connects their vehicle to the green pipe, ready to blow contents into the top of the tank, checking the valve is open. The tank is labelled, to allow the driver to identify where to wait. If the driver is unable to reverse in full, they can temporarily block the road and use their own pipework to extend the fitting from the tank.

The tank discharge pipework is a 6 inch "Bauer" coupling with a 4-inch reducer. GENeco can provide a flexible 6m green pipe to allow discharge into the tank. Discharge into the tank is under pressure. Should the tank overflow, a flashing light is triggered. The driver must stop discharging immediately unless told otherwise by the plant operators.

Level within the tank is measured by pressure transmitter (PT-001) to provide a high-level alarm and interlock for the Liquid Slurry Transfer Pump. A visual display of the tank level is provided locally for the tanker driver reference. This gives indication of the availability of the tank to receive a tanker load. The level signal is transmitted and displayed by the Scada HMI, accessible remotely and in MCC room. A visual alarm is illuminated (flashing light) if the tank reaches the user define high level.

Rejection

If necessary, the load can be rejected at this point, following the *BFWRF - Rejection Procedure (GENWMP50)*. Reasons for rejection could be: incomplete paperwork, waste described as category 1 or 2, absence of a FSA official signed paperwork (blood waste only), failure to meet PACWAC criteria, inability to discharge load under pressure or other operational issues.

Processing Material Without Undue delay

In accordance with the Animal By- Products (Enforcement) (England) Regulations 2011 any Animal by Product material must be treated without undue delay.

In the context of Bristol Food Waste Recycling Facility, undue delay has been defined with the aim to process waste material accepted at the earliest opportunity and within 3 days of receipt.

Revision History



Issue	Date	Prepared by	Description
1	Oct 13	R Creed	New Document
2	Nov 13	BFWRF team	General update to reflect current practice/review by team
2.1	May 14	R Creed	General update to reflect current practice
3	Nov 14	R Creed	Processing material without undue delay added. Paperwork section revised to include requirement to check cat 3 ABP category where applicable, transfer of required information rather than need for a transfer note and Storage and Transportation of Animal by-Products Materials (GENWMP165) details transfer information required by APHA Rejection section revised to give example of cat 1 or 2 description as being a reason for rejection. Requirement for document containing Food Standards Agency confirmation of blood category added to paperwork section.
4	Feb 2018	Matthew J Williams	Order changed to put sampling before weighbridge as there is now a weighbridge now at the BFWRF. 'Weighbridge' heading changed to include 'Arrival at BFWRF'. Analysis results passed on via the sample bottle, not on the phone. Note added regarding the suspension of blood deliveries. Paragraph regarding surface water edited to mention diversion of culvert. Minor changes to 'Tank Controls' section to include arrival at tank. Removed reference to archived weights and measures document. Removed reference to cleansing and hygiene procedure as not relevant to liquid waste tankers. Changed tense from "shall be" to "is" to make clearer. Changed site name to a "Bio-Resource" centre.
5	Aug 2018	R Creed	Formatting standardised across document to Arial. Reference to Categorisation of Animal By Products (GENWMG145) changed to green font so that stands out to reader. General review and update
6	Jun 21	Z Strange	Custodian changed to Zachary Strange. Location of Liquid Tank Delivery Log change to SharePoint. Took out staff opening valve.
7	Sep 23	H Williams	New Format.
8	Mar 24	F Ramirez Diaz Paul Newman	Updated Sampling Regime section to include conductivity. Added reference to the Food Waste liquid sampling tanker record and PACWAC (GENWMG144). Updated reference to Rejection Procedure from GENWMP154 to GENWMP50. Removed reference to Storage and Transportation of Animal By-Products Materials (GENWMP165) as document has been archived