

Acceptance and Quarantine

The Energy from Waste (EfW) facility producing the Incinerator Bottom Ash (IBA) have a responsibility to confirm the status of the IBA received by Day Aggregates, the status being confirmed by rigorous testing as part of the EfW's procedures and as agreed under the ESA Protocol, A Sampling and Testing Protocol to Assess the Status Of Incinerator Bottom Ash. Day Aggregates have an acceptance criteria whereby IBA is accepted under EWC 19 01 12 and where levels of unburnt material or moisture are observed as not being excessive upon receipt. Unburnt material is likely to be more apparent when the IBA begins to dry out, at this point Day Aggregates can reject or seek advice from the IBA producer.

Each IBA processing depot has its own respective IBA Quarantine and Production Record Form which has a grid that represents the facilities IBA storage arrangement in the form of Windrows and Bays, each windrow bay is split into sections. A new IBA Quarantine and Production Record Form will be started each time filling of a new windrow commences. This form will be used to record the incoming material location within windrows and sample dates, it will continue to be updated until such time that any sample taken and noted on a windrow has its status confirmed, even where this means that filling of a further windrow has commenced. The time between a sample being taken and the samples status being confirmed is referenced as the sampling period.

Section 2.2 of the ESA protocol sets out a requirement for 2 samples per calendar month, collected on random dates and at times selected in advance, the EfW Environmental Technician (ET) will notify the Site Manager when a sample is taken. The depot manager will acknowledge receipt of the notification by return email to the ET and then identify the location of material within a given windrow by noting the sample date at the respective windrow position on the IBA Quarantine and Production Record Form.

The Site Manager will keep the IBA Quarantine and Production Record Form live until the sampling period is complete (in some cases the filling of the next windrow may have commenced) and the associated material has been processed. The location of material within a given windrow when the sampling period is completed will be identified by placing the date at the appropriate windrow location. Where material is received from multiple sources the sample location, sample date and sample confirmation date for each source will be recorded. The sample status confirmation, when received will be entered by ticking the appropriate box, Compliant or Non-Compliant. The IBA received and placed in a windrow for a given sampling period at the facility will be recorded on the IBA Quarantine and Production Record Form in tonnes.

NOTE: Samples under Section 2.2 of the ESA protocol are deemed compliant when a specified hazard threshold is not exceeded, A Non-Compliant sample (ie. to be treated as hazardous waste) is when there are 6 exceedances in 24 samples, a 4-times exceedance, or 3 exceedances in a row of a hazard threshold. In the event that IBA is confirmed as Non-Compliant an instruction will be issued stating that the material located between sample dates as identified on the corresponding IBA Quarantine and Production Record Form, including material in the preceding and proceeding bay, must not be processed until the Non-Compliance is quantified. Where the ESA guidelines are exceeded, ie. IBA is deemed to be hazardous, within two working days removal of the identified extent of that batch will commence. The material will be taken to a site appropriately Permitted for hazardous IBA. The measures set out in the ESA Protocol (as updated) at section 5.2-5.4 will then be undertaken to re-establish the consistency of the non-hazardous IBA.

Production

NOTE: IBA received by Day Aggregates will not be processed until emailed confirmation of its Compliant status. IBA shall remain stockpiled in windrows for two to three weeks for appropriate conditioning prior to being processed (IBA conditioning varies across seasons and from source to source).

The commencement and completion date for processing a sampling period's material will be documented on the corresponding IBA Quarantine and Production Record Form, the completed record will then be stored on the company database. It should always be the case that the oldest material on site at any given time will be processed first by rotation.