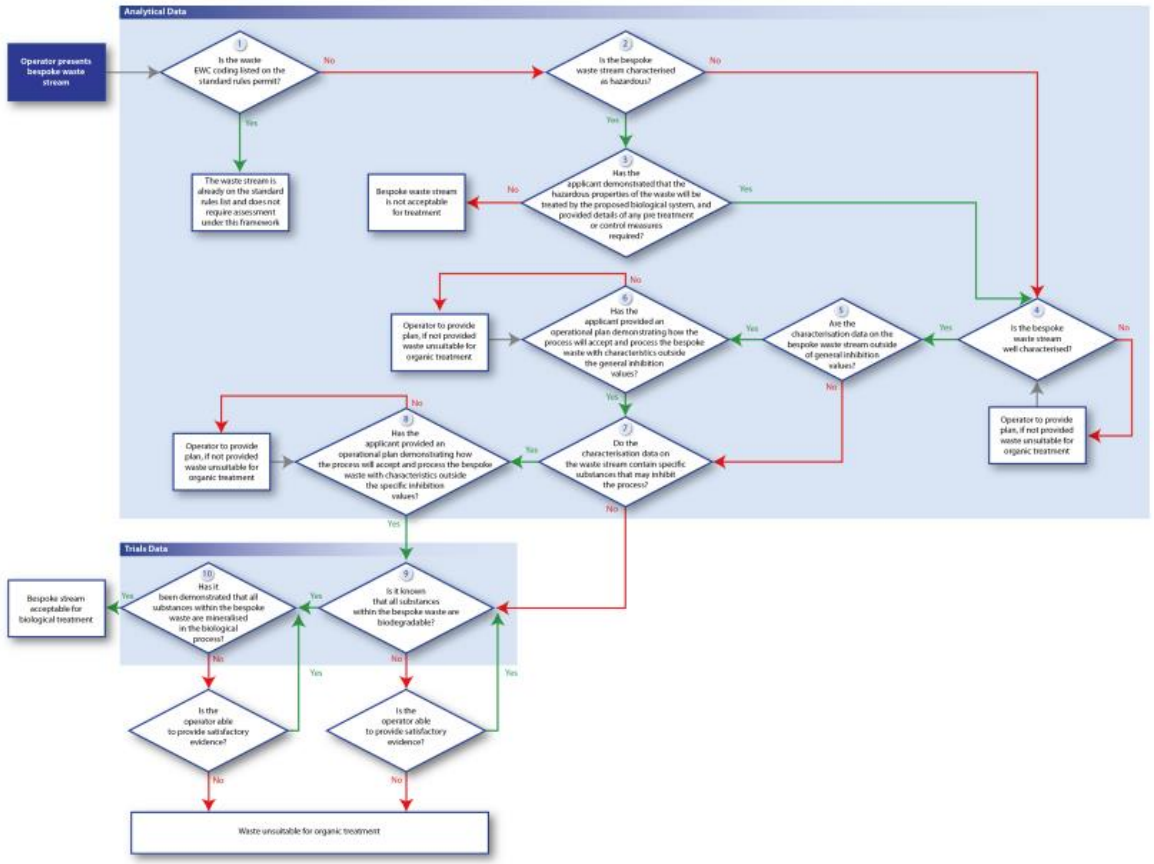
Jacob's Assessment of Organic Wastes from Off-spec Batches/Production

Classified as 16 03 06

The Jacob's assessment is a Technical Guidance report working with the Environment Agency (and the implementation of WM3) to determine the suitability of waste streams for Anaerobic Digestion and provides a Decision Framework to be applied to individual waste streams.



Question 1: Is the waste EWC coding listed on the standard rules permit?

Answer: No. The EWC code for 16 03 06 is characterised as organic wastes from Off-specification batches and unused products. From Waste4Generation's viability studies, these wastes have been off-specification foods/liquids/sludges recovered and are typically processed at feedstock generation facility ("soup kitchens"). As part of the permit variation for the mechanical treatment and generation of feedstocks, Waste4Generation would be undertaking similar activities and this material could be efficiently treated.

Question 2: Is the bespoke waste stream characterised as hazardous?

Answer: No, waste is non-hazardous. The waste has been classified under WM3 and found to be non-hazardous.

Question 3: Has the applicant demonstrated the hazardous properties of the waste will be treated by the proposed biological system, and provided details of any pre-treatment or control measures required?

Answer: Waste not classified as hazardous.

Question 4: Is the bespoke waste stream well characterised?

Answer: Yes, the waste has been well characterised, and rigorously tested to ensure compliance with both our pre-acceptance & acceptance parameters but also ensure compliance of our trade effluent consent. Waste4Generation Corby's pre-acceptance and acceptance procedures implement BAT techniques and the Environment Agency's 'Appropriate Measures for Waste Treatment' to ensure that no material enters site which is not suitable for treatment.

Question 5: Are the characterisation data on the bespoke waste stream outside of general inhibitions levels?

Answer: No, the characteristic data of the waste is not outside of inhibitory values set out within the Jacobs report. The waste is characterised as organic wastes from off-specification batches and as such the organic nature of the waste stream in particular, for food-based waste streams will be below any inhibition limits.

As Question 5 demonstrates Waste4Generation will only be accepting waste streams below potential inhibitory limits, the assessment moves directly onto Question 7.

Question 7: Do the characterisation data on the waste stream contain specific substances that may inhibit the process?

Answer: No, the characterisation of the waste shows that the waste in not inhibitory with the levels documented within Appendix D.

Question 8: How has the applicant provided an operational plan demonstrating how the process will accept and process the bespoke waste with characteristics outside the specific inhibition values?

Answer: Yes, whilst the waste stream does not have characteristics outside of specific inhibition values, the site is protected by the Pre-Acceptance & Acceptance Procedures, which meet BAT requirements and 'Appropriate Measures', where no wastes outside of pre-acceptance and acceptance limits are accepted into the site.

Question 9: Is it known that all substances within the bespoke waste are biodegradable?

Answer: From the analysis undertaken, there was complete mineralisation of the waste stream during the digestibility studies. All wastes are subjected to full pre-acceptance procedures prior to being permitted onto site. This includes Biochemical Methane Potential testing and Inhibition testing where required to ensure viability of potential waste streams.

Question 10: Has it been demonstrated that all substances within the bespoke waste are mineralised in the biological process?

Answer: As above, waste streams are fully characterised and subjected to BMP & Inhibition testing as part of pre-acceptance to ensure viability to be fully mineralised.