

Agenda

Agrivert and Environment Agency - Coursers Farm AD Environmental Permit
Pre-Application Meeting

7th January 2016, 11:00am

Held at Agrivert Ltd. West London AD Facility, Kitsmead Lane, Longcross,
Surrey, KT16 0EF

- 1) Introductions
- 2) Site Tour
- 3) Post Site Tour Discussion
- 4) Application Requirements
- 5) A. O. B
- 6) Close

Attendees: Harry Waters - Agrivert Commercial Director

David Olwell - Agrivert Planning Manager

Bunmi Aboaba - EA Senior Environment Officer – Waste

Holly Watson - EA Environment Officer



Anaerobic Digestion Facility at Coursers Farm, Coursers Road, St. Albans.

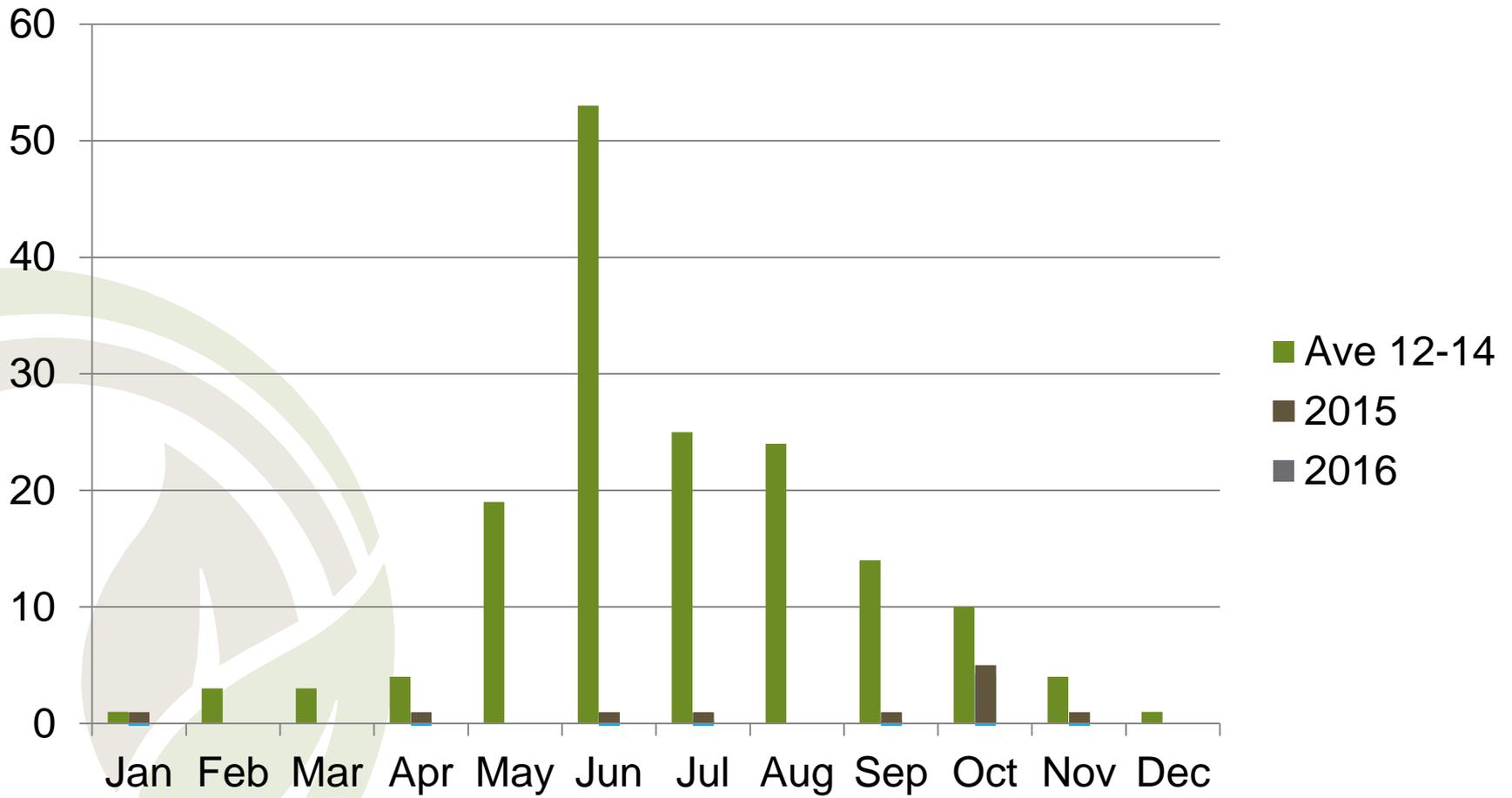
Harry Waters – Agrivert

05 February 2016

Agenda

- Recap on compost plant
- Why recycle food waste?
- What is Anaerobic Digestion?
- Environmental Benefits
- What are the implications for the Community?

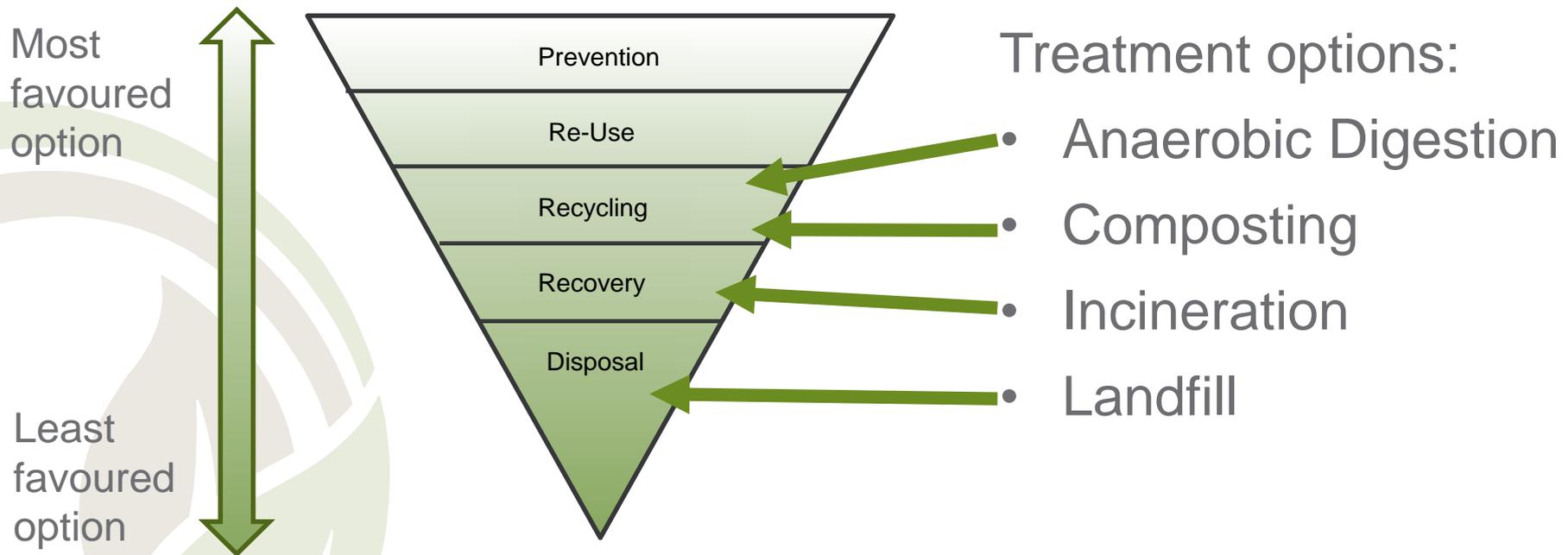
Odour Complaints Confirmed to Site



Why Recycle Food Waste?

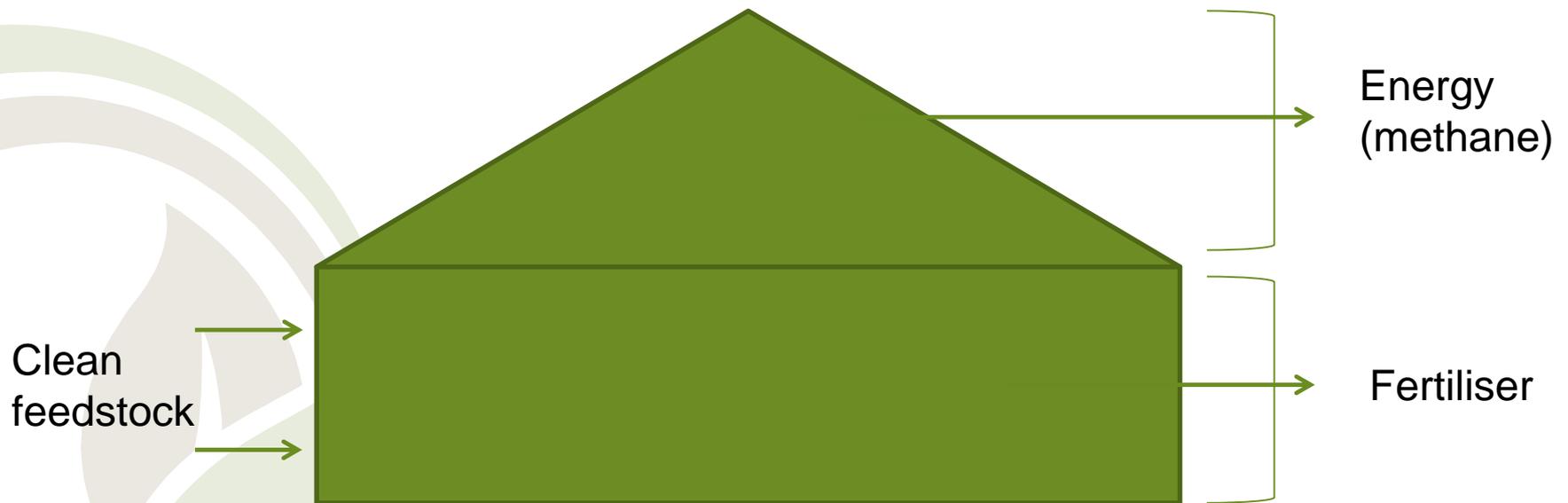
- UK sends 16 million tonnes of food waste to landfill each year
- Food waste produces 160m³ of methane per tonne
- Methane is 23 times as potent as CO₂ as a GHG
- Food waste is a resource

AD and Government Policy



What is Anaerobic Digestion?

- AD is the process by which food waste is biologically treated in the absence of oxygen.



What Does the planned plant Look Like?



Suitable Feed Stocks

- Food collected from households
- Food from schools, hospitals, pubs
- Organic liquids (such as beer and milk)



Cleaning and Separation

- Waste is passed through hammermill, separating and washing plastics.
- Waste is mixed with water and held in suspension to remove grit, glass and other small particles.
- Mixed with liquids before entering digesters.



Digesters

- Digestate held in the tanks for approx. 60 days and stirred and heated.
- Gas held in the roofs



Energy Production in the Plant

- Gas produced is cleaned and fed into two engines.
- These also produce heat to re-use in the process.



What Does Fertiliser Look Like?



Green Credentials of AD

- Produces power for around 6,240 homes
- Heat can also be used locally
- Captures 4.5 million m³ of methane each year – net impact of taking at least 71,000 cars off road annually.
- Produces organic fertiliser for at least 3000 acres of farmland.

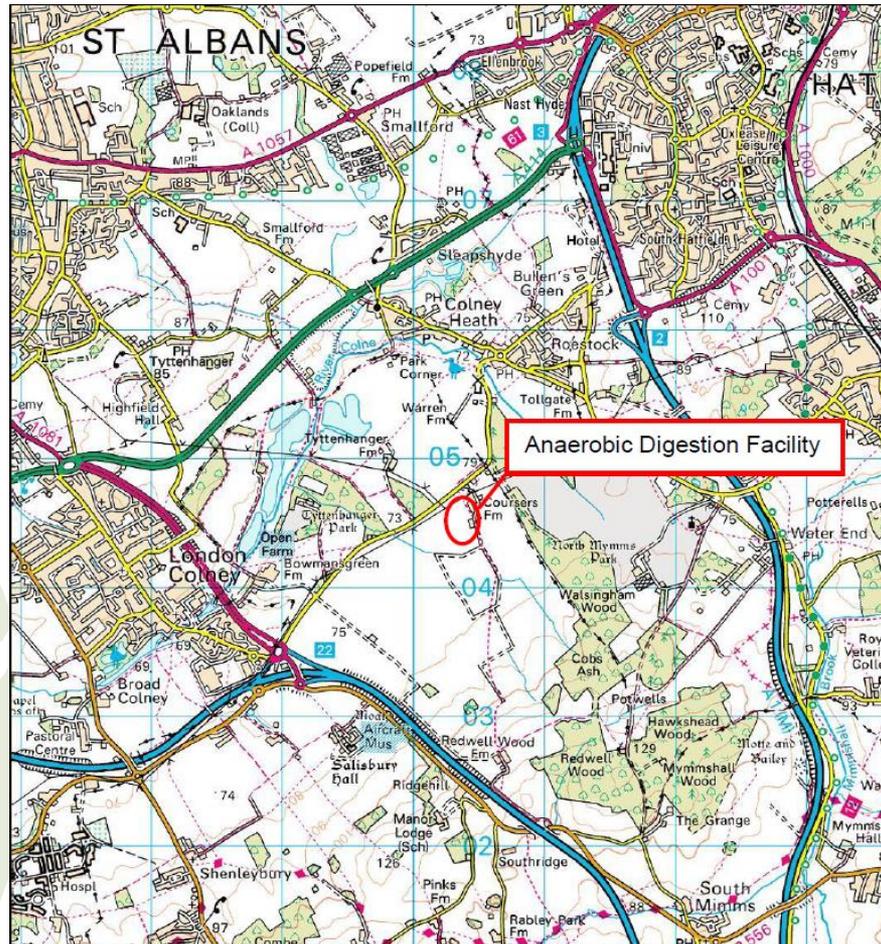


Implications for the Local Community

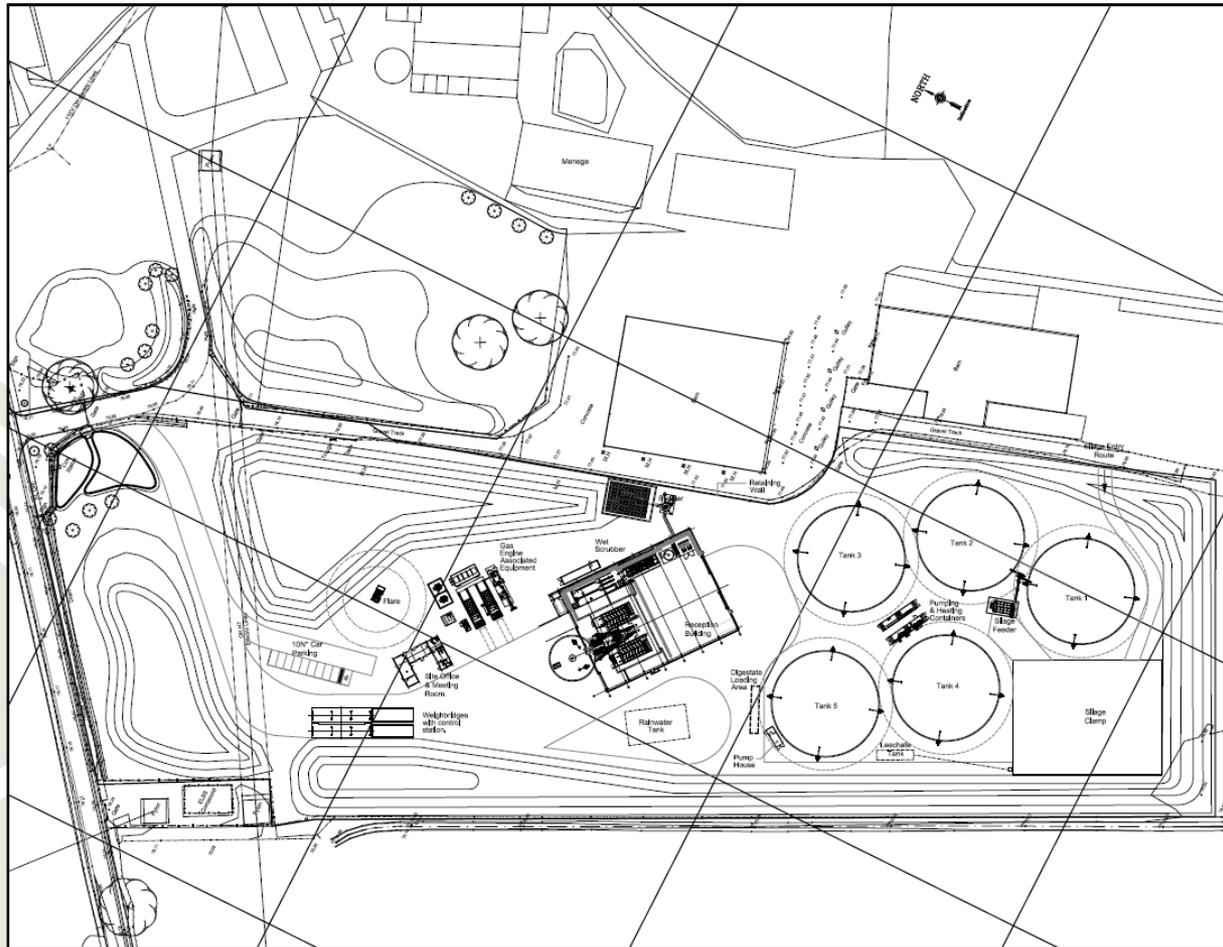
- Fully enclosed process so virtually no smell.
- Up to 54 HGV movements per day
- Reasonably large structures
- Create 4 jobs and support further 10 in related support jobs



Location



AD Development



Questions?

Harry Waters,
Commercial Director Agrivert

Frequently Asked Questions

How tall are the buildings?

The tallest aspects of this development are the building within which organic waste is delivered (referred to as the reception building) and the digester tanks. The reception building has an overall height of 13 metres above ground. The digesters are cylindrical up to 8m and conical in shape to an overall height of approximately 16 metres. The buildings will be sunk into the ground to reduce their visible height level and will sit in the shadow of the large agricultural buildings adjacent to the site, the largest of which is approximately 12 metres high. The site is also made up of several screening mounds to reduce its visibility from Coursers Road.

What volume of waste will be processed?

The site is designed to have an overall permitted annual capacity of 75,000 tonnes (Including processing liquids). However, based on experience gained at our operational plants in Oxfordshire and Surrey, we would expect the site to receive the following annually:

- Approximately 38,000 tonnes of solid organic waste
- 5,000 – 10,000 tonnes of silage (such as maize and wheat) from local farms
- 5,000 – 15,000 tonnes of organic liquid wastes.

The relative proportion of these streams will vary as we seek to maximise the output of renewable energy from the plant.

How much renewable energy is produced?

We anticipate that the site could produce up to 3 megawatts (MW) of electricity which is fed directly into the National Grid. This is enough energy for approximately 6,240 homes.

Where will the waste come from?

We are building this plant to process local waste, the vast majority of the waste will come from Local Authority collections. We will also accept waste from other sources such as supermarkets, convenience stores, schools and the hospitality sector which could then be processed at the plant.

How much traffic will the site generate?

It is anticipated that the facility on a typical day during the busiest season during operation when digestate (the final product) is being exported, there will be approximately 54 HGV movements a day and 6 staff movements per day.

Will noise be generated from this development?

Anaerobic digestion is not a noisy activity since it is an enclosed process. The main source of noise from this development would be from vehicles accessing the site. The gas engines (which convert gas to electricity) are sited externally and housed in special containers which incorporate significant acoustic dampening features. These are active 24 hours per day, however we are confident that they will not cause noise problems.

Does the process produce odour?

The likely odour signature arising from this facility is minimal. Waste is imported in enclosed vehicles, and deposited within an enclosed building and processed in sealed digester tanks. Air in the reception building is treated to remove odour before its release. We do, however, realise that odour may be of concern to local communities. We are confident odour will not cause a problem. However we would encourage you to arrange to visit one of our operational plants in Oxfordshire or Surrey to gain confidence in our proposal.

What hours will the plant be operational?

Once the anaerobic digestion process has started it is continuous, running 24 hours a day. Organic wastes are delivered to the site during the following times:

- 08:00 to 1800 Mondays to Fridays
- 08:00 to 13:00 Saturdays

How many people will the site employ?

The facility is not employment intensive: we would seek to employ a maximum of 4 full time members of staff. The project would also generate approximately 10 in-direct employment opportunities in sectors such as delivery drivers, specialist technical maintenance and agricultural staff.

When will the site open?

We anticipate the site to begin operations in the Autumn of 2016.

How can I contact Agrivert?

Although our head office is based in Oxfordshire we are always keen to meet in person. Please contact Harry Waters (Commercial Director) at HWaters@Agrivert.co.uk or David Olwell (Project Planning & Permitting Manager) at DOlwell@Agrivert.co.uk or by calling 01608 677 700.



Certificate No. CCC9302

Continuing Competence Certificate

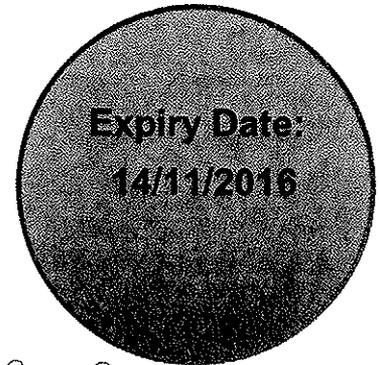
This certificate confirms that

Neil Pollington

Has met the relevant requirements of the Continuing Competence scheme for the following award(s) which will remain current for two years from 14/11/2014

AD Anaerobic Digestion

Awarded: 14/11/2014



Authorised

WAMITAB Chief Executive Officer

CIWM Chief Executive Officer



The Chartered Institution
of Wastes Management



00065246



Certificate No. OCC4375

Operator Competence Certificate

Qualification Title:

Waste and Resource Management - Biological Processing - 3VWRMb

This Certificate is awarded to

Chris Woolcock

Awarded: 04/12/2013

Authorised

WAMITAB Chief Executive Officer

CIWM Chief Executive Officer



The Chartered Institution
of Wastes Management

This certificate is jointly awarded by WAMITAB and the Chartered Institution of Wastes Management (CIWM) and provides evidence to meet the Operator Competence requirements of the Environmental Permitting (EP) Regulations, which came into force on 6 April 2008.



00048026



Qualification Title:

**WAMITAB Level 3 Award in Waste and Resource Management -
Biological Processing (QCF) - 3VWRMb**

Qualification Accreditation Number:

600/0504/X

This Certificate is awarded to

Chris Woolcock

Awarded: 04/12/2013

Serial No:21261/3VWRMb/1

Authorised

A handwritten signature in blue ink, appearing to read "Ray Burberry".

**Ray Burberry
Qualifications Manager, WAMITAB**



00048053



Credit certificate

This certificate determines credit awarded to:
Chris Woolcock

Units gained:

		Credit Value	Credit Level
A5028351	Environmental impact of Waste and Resources Management	1	3
F5028352	Waste and Resources Management Industry Regulatory Policy and Legislation	2	3
J5028353	Permitting Requirements and Compliance in the Waste and Resources Management Industry	2	3
L5028354	Health and Safety in the Waste and Resources Management Industry	2	3
R5028355	Technical aspects of Managing Wastes and Resources	2	3
D5028357	Biological Processing within the Wastes and Resources Management Industry	3	3

Awarded: 04/12/2013

Serial No.: 21261WRQ1/1

Authorised

Ray Burberry
Qualifications Manager, WAMITAB

Regulated by

Ofqual

For more information see <http://register.ofqual.gov.uk>



Llywodraeth Cymru
Welsh Government

The qualifications regulators logos on this certificate indicate that the qualification is accredited only for England, Wales and Northern Ireland.



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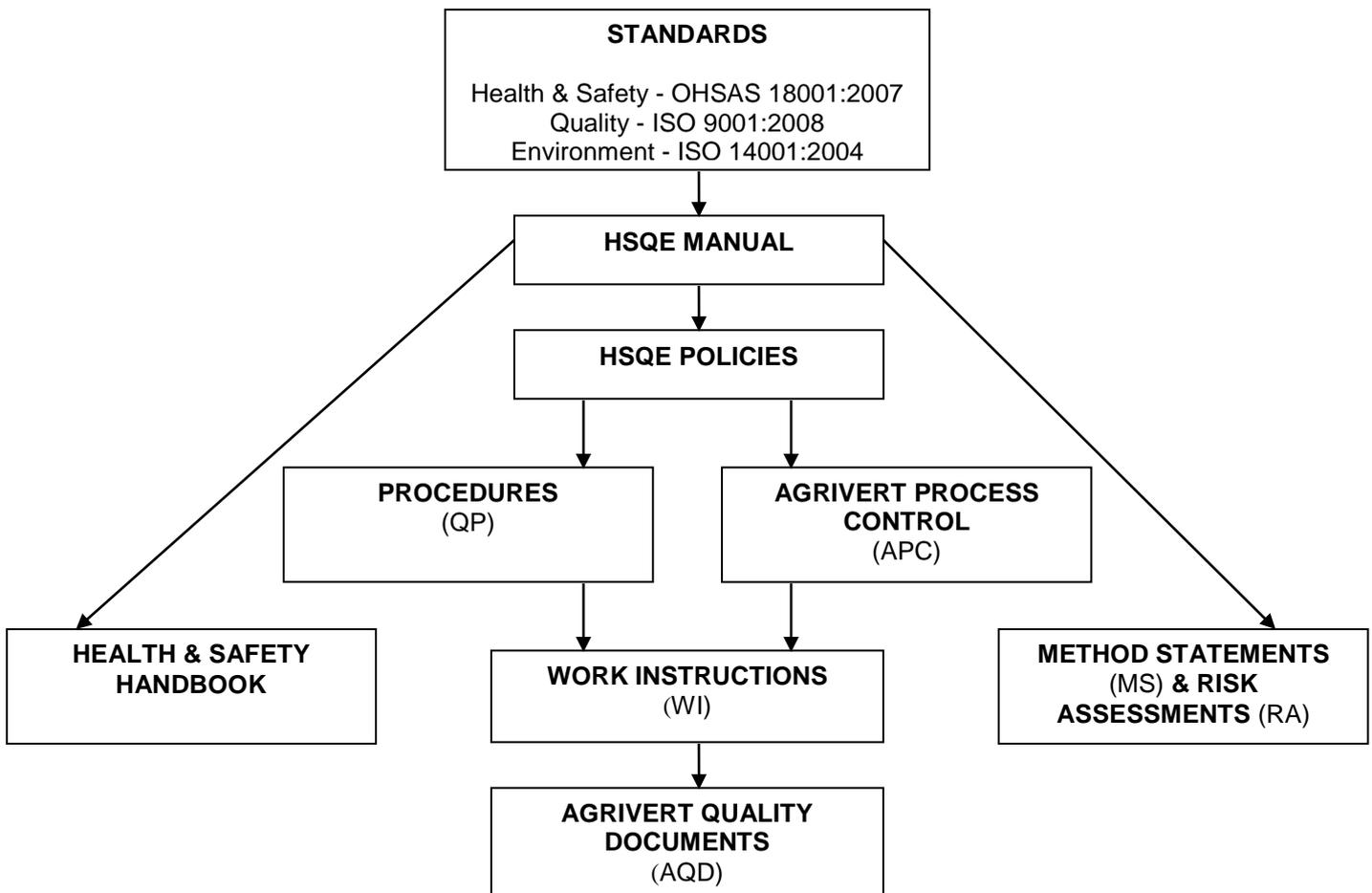
Business Management System (BMS)

Health, Safety, Quality and Environmental (HSQE) – AQD 50

Agrivert has an integrated business management system (BMS) in place that meets the requirements of the international standards ISO 9001:2008 and 14001:2004 and the UK standard OHSAS 18001:2007. The management system has been up and running since April 1998 and in August 2000 the system was independently verified by the UKAS accredited company, ISOQAR. On an annual basis ISOQAR carries out an audit of all Agrivert's operations to confirm the BMS still meets the requirements of the standards.

These international standards are widely recognised by our customers as indicators of the importance Agrivert places upon protecting the environment, producing a quality service and product with high regard to the health and safety of all those that come into contact with our operations. To ensure compliance to the standards Agrivert has developed a series of Process Control flow charts (APC), Procedures (QP), Work Instructions (WI), Quality Documents (AQD) and safe systems of work to ensure any work carried out is done to a consistent standard, to levels agreed between the customer, the management and the workforce.

By ensuring all the workforce adhere to the system requirements we can continue to guarantee to our customers a high standard of work. To ensure Agrivert's system continues to run compliantly, a series of internal audits are carried out regularly throughout the year to highlight any areas of weakness. Agrivert expects its workforce to adhere to all known procedures and bring to their manager's attention any concerns they may have that could prevent any failures of the system.



Procedures Index

QP 01	Management Review
QP 02	Control of Documents and Records
QP 03	Suppliers Evaluation
QP 04	Purchasing Control
QP 05	Corrective and Preventive Action
QP 06	Management of Premises, Plant, Vehicles and Equipment
QP 07	First Aid, Fire and Emergency Procedures
QP 08	Internal Management System Audits
QP 09	Training, Competence, Awareness, Inductions, Appraisals, Assessments
QP 10	Preparation of Tenders, Estimates and Quotes
QP 11	On Receipt Inspection
QP 12	Management of Health Issues
QP 13	Looking after the Product
QP 14	Control of Non-Conforming Product/Service
QP 15	Customer Property
QP 16	Induction
QP 17	Hazard Identification, Risk Assessment and the Control and the Setting of Health and Safety Objectives
QP 18	Assessing Environmental Aspects and Impacts and Setting Environmental Objectives and Targets
QP 19	Handling Public and External Party Communications and Complaints
QP 20	Internal Communications and Consultation
QP 21	Measuring / Testing Equipment (Calibration)
QP 22	Contract Process Control
QP 23	Control of Contractors
QP 24	Monitoring and Review of Performance
QP 25	Spillage Procedure
QP 26	Accident and Incident Reporting and Investigation
QP 27	Management of Waste including Special and Difficult Waste Procedure
QP 28	Self Employed Persons (Deleted)
QP 29	Display Screen Equipment (DSE)
QP 30	Customer Services
QP 31	Plant and Machinery Safety
QP 32	Permits To Work
QP 33	Disaster Recovery Plan for Head Office
QPe 34	Absence due to illness
QPe 35	Disciplinary and Dismissal
QPe 36	Grievance
QPe 37	Equality, Diversity & Prevention of Discrimination
QPe 38	Conduct and Performance Issues
QPe 39	Recruitment and Selection