

MBT Sachsenhagen

(EZ Schaumburg)

Holztrift 16

31553 Sachsenhagen

Mechanical and biological treatment plant (MBT) with wet anaerobic and wet aerobic biological treatment plant



Approximate total plant investment costs: ~ 30.000.000 Euro

Project execution Wasteconsult: Dr. Matthias Kuehle Weidemeier, Dr. Ulrich Langer

Client / by order of: Abfallwirtschaftsgesellschaft Landkreis Schaumburg mbH (AWS), Obere Wallstr. 3, 31655 Stadthagen, Germany

Involvement of Wasteconsult / Dr. Kuehle-Weidemeier: 2000-2008

Services by Wasteconsult / Dr. Kuehle-Weidemeier:

- 5 MBT pilot tests with 25t input each
- Optimisation of the composting tunnel and mechanical treatment
- Analytical supervision and evaluation of the process (waste samples)
- Measurement and evaluation of the exhaust gas (TOC, Methane, Ammonia, laughing gas)
- Parallel accomplishment of controlled composting tests with the same input on laboratory scale (8 Reactors)
- Calculation of the exhaust gas emissions (concentration and load) of the future MBT
- Examination and evaluation of the reuse of the high calorific fractions
- Examination of the annual variation of important waste properties (laboratory analysis)
- Investigation of geomechanical properties of the MBT output
- Technical scale biological wet anaerobic and wet aerobic treatment step
 - Sampling and laboratory analysis
 - Evaluation of process and process results
 - Recommendations for Process enhancements
- Design proposals for the MBT plant
- Supervision and optimisation of the full size plant
 - Sampling and analysis of fractions from various process steps, MBT in- and output including RDF and recyclable fractions
 - Consultancy for process optimisation
- Production of a valuable substitute fuel fraction (refined RDF)
 - Sorting, sampling, analysis

Process diagram MBT Sachsenhagen

Waste treatment plants in the EZ Schaumburg

