



EMBAJADA DE SUECIA
Santiago de Chile



FONDO de COOPERACIÓN
CHILE - SUECIA



GRUPO URBASER-KIASA
kdm · starco · demarco

ACTIVITIES DEVELOPED THROUGHOUT THE PROJECT

Development

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The following activities were performed during the project:

- **Situation Analysis:** Evaluation of the sludge generated in Chile, specially in the Santiago metro area, V, and VI regions. Second, the sludge samples were classified by origin, residential and industrial. In the latter case, they were analyzed by the type of industry generating them: animal generated, fruits and vegetable waste, dairy, wineries, mining, and waste treatment industry among others.
- **Sludge Classification:** The project was able to identify the type of treatment applied to different types of sludge; centrifugation, filtering (press or belts), and drying field. The sludge was also classified by its destination purpose or possible use such as, soil enhancers, composting material, or to be transported by authorized companies to sanitary landfills or single-cell landfills.
- **Field Testing:** Composting tests were developed with sludge samples from four different sectors: pork, poultry, paper, and salmon industries. The trials lasted two months and a registry was created in order to record humidity, temperature, and the intake of air of the compost samples. Parallel to this records, samples were sent to be analyzed to determine the biogas generation potential and its use as bio-fuel.
- **Permeability Trials:** The trials were performed mixing sludge with flying ash. According to previous experiences in Sweden, this mixture has a very low permeability factor and can be used as impermeable covers for sanitary landfill closings and / or in reservoir deposits used by the mining industry.

