



LIFE Project Number
LIFE05 ENV/DK/000153

PROGRESS REPORT No. 02
Covering the project activities from 01/12/2006 to 30/05/2007

Reporting Date
31/05/2007

LIFE PROJECT NAME
**Utilisation of ash from incineration of wastewater sludge (bio
ash) in concrete production**

EXECUTIVE SUMMARY

The objectives of this project are to investigate the possibilities regarding the use of bio ash in concrete and dissemination of the results. The first part of the project regarding the handling facilities have been completed with success. A range of bio ashes produced from the two participating different wastewater treatment plants have been tested for physical, chemical and mineralogical properties. However, the bio ash from one of the plants was found to be too coarse to use in the concrete without further treatment, and therefore samples have been milled down to a smaller particle size, and used for the subsequent testing.

Since January 2006 approx. 50% of the current production of bio ash at the AWS WWTP has been used at UNICON factories for the production of bio ash concrete.

Concrete castings with different bio ashes are currently undergoing tests in the laboratory regarding durability and strength development. Also the leaching tests have begun, however with some delay due to delay in the casting of concrete specimens. An investigation of two existing structures with bio ash concrete have been finalised with a satisfactory result, and the final report for task 7 can be seen in Appendix 1.

The dissemination of the project results will soon take place at the conference "Moving forward. Wastewater Biosolids Sustainability: Technical, Managerial and Public Synergy", which is held 24.-27. June 2007 in Canada, see Appendix 2. Further, a paper will be presented at the International Conference on Sustainability in the Cement and Concrete Industry, 16.-19. September 2007, Norway.

A request regarding redistribution of funds is underway and has been preliminary checked by the Monitoring Team, and the request is now sent to the European Commission. The requested modifications are due to an underspending of equipment, and an overspending of consumables.