



Uppsala, 29 January 2008

CERTIFICATE

To whom it may concern

Raino-Lars Albert

has participated in the

Nordic Diatom intercalibration and workshop 2007

The intercalibration included the counting of four obligatory and two optional diatom samples. Identification and enumeration of the diatoms followed the Swedish Standard method using diatoms for environmental monitoring ('Påväxt i rinnande vatten – kiselalgsanalys'. In: Handbok för miljöövervakning: Sötvatten, Version 2:2 : 2005-07-19. Short English description in 'Environmental Quality Criteria – Lakes and Watercourses. Swedish EPA, report no. 5050). The method is based on the European standard SS-EN 14407. Water quality - Guidance standard for the identification, enumeration and interpretation of benthic diatom samples from running waters (= SIS (2003) Vattenundersökningar - Vägledning för identifiering och utvärdering av prover av bentiska kiselalger från vattendrag). The counts were evaluated according to Kelly, M. (2001): Use of similarity measures for quality control of benthic diatom samples. Wat. Res. Vol. 35 (11), 2784-2788. The results were compared and discussed during a workshop held at the Erken Laboratory, University of Uppsala, Sweden, November 12th to 15th 2008. Amelie Jarlman, Jarlman HB, Lund, was the auditor and workshop teacher, and Maria Kahlert, Dept. of Env. Assessment, SLU, was the overall organizer and calculated the results.

Results

sample	stream	country	obligatory?	Hills N	Bray-Curtis
1	Bóbr River	PL	no	10,5	42
2	Martimojoki	FIN	yes	4,3	71
3	Rökeån	SE	yes	5,7	62
4	Hammarbäcken	SE	yes	5,1	70
5	Lillån-Bosgård	SE	no	2,9	27
6	Estonian River	EE	yes	6,3	66

Overall result: passed

Amelie Jarlman, Jarlman HB, Lund

Amelie Jarlman

Dr. Maria Kahlert, Dept. of Env. Assessment, SLU

Maria Kahlert

Organizers:

NorBAF - Nordic network for Benthic Algae in Freshwater) & Dept. of Env. Assessment, SLU, Maria Kahlert, with financial help from Naturvårdsverket, Erkenlaboratoriet, UU, and Nordic Council of Ministers