



PLATFORM BODEMKWALITEIT

Implications of EN 16637-series for the national regulation Dutch Soil Quality Decree

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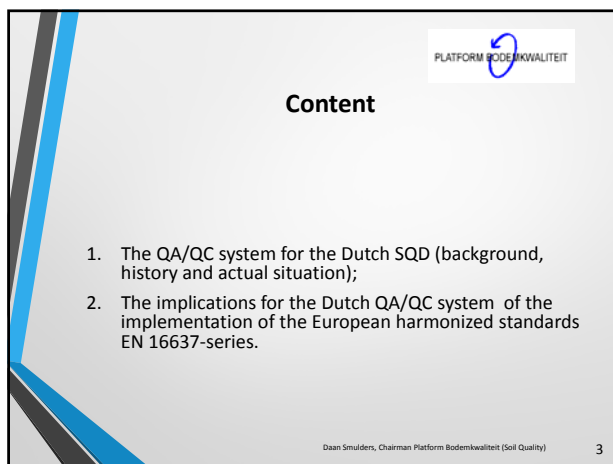
Platform Bodemkwaliteit (Soil Quality)

A number of organizations which execute activities according to the SQD have organized themselves in the "Platform Bodemkwaliteit (Soil Quality)": producers of construction materials, organizations which do the handling, storage and/or transport of soil and dredging sludge.

This presentation will give you the point of view of producers of construction materials.

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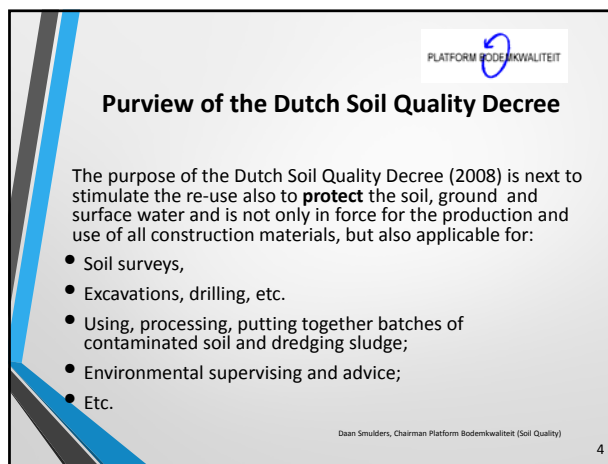
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Content

1. The QA/QC system for the Dutch SQD (background, history and actual situation);
2. The implications of the Dutch QA/QC system of the implementation of the European harmonized standards EN 16637-series.

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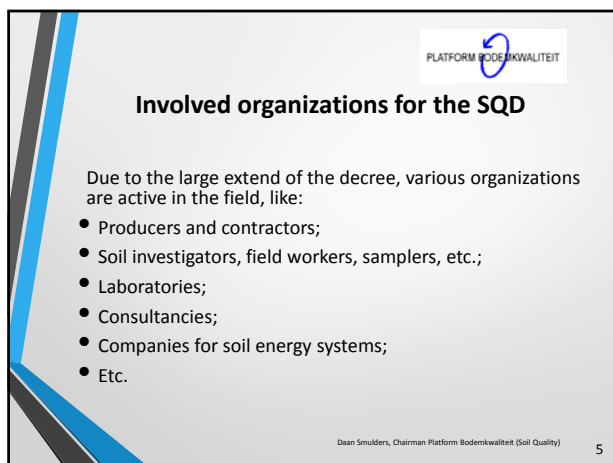
Purview of the Dutch Soil Quality Decree

The purpose of the Dutch Soil Quality Decree (2008) is next to stimulate the re-use also to **protect** the soil, ground and surface water and is not only in force for the production and use of all construction materials, but also applicable for:

- Soil surveys,
- Excavations, drilling, etc.
- Using, processing, putting together batches of contaminated soil and dredging sludge;
- Environmental supervising and advice;
- Etc.

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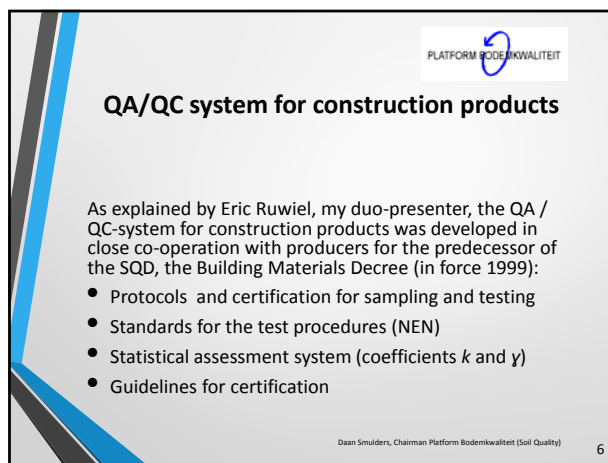
Involved organizations for the SQD

Due to the large extend of the decree, various organizations are active in the field, like:

- Producers and contractors;
- Soil investigators, field workers, samplers, etc.;
- Laboratories;
- Consultancies;
- Companies for soil energy systems;
- Etc.

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QA/QC system for construction products

As explained by Eric Ruwiel, my duo-presenter, the QA / QC-system for construction products was developed in close co-operation with producers for the predecessor of the SQD, the Building Materials Decree (in force 1999):

- Protocols and certification for sampling and testing
- Standards for the test procedures (NEN)
- Statistical assessment system (coefficients k and γ)
- Guidelines for certification

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Results of the complete QA/QC-system

- A uniform level of environmental protection through the Netherlands is obtained by one quality level for the declaration of performance for all building materials, i.e. a level playing field for all construction products
- A certificate is accepted by all parties involved (producers, users and regulators) and the guidelines are based on one "handbook certification of SQD"


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2. The implications for the Dutch QA/QC system of the implementation of the European harmonized standards EN 16637-series

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Implementation EN 16637-series

- EN 16637-2 (dynamic surface leaching test) is more or less identical to NEN 7375:2004 => no implications to change the standard.
- EN 16637-3 (up-flow percolation test) differs to NEN 7373 (7-steps) and NEN 7378 (1 step) => correlation coefficient between both methods shall be determined.

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How about protocols for sampling and testing?

General requirements for sampling and testing:

- Samples shall be taken and processed according uniform procedures (for example CEN/TR 16220 Complement to sampling);
- Testing laboratories shall have an additional quality assurance system (reference CEN/TC 351/WG 1 N 0826), inclusive accreditation, to prevent excessive variation in results between tests and laboratories.

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And what about statistical assessment?

- A declared value based on a confidence level of 90 % and a percentile of 50 % shall be part of all product standards for regulated dangerous substances.
- The options of lot/batch control for small quantities or continuous factory production control (FPC) for process-based production.
- The option for variation of the frequency of the FPC-testing based on k -/ γ -factor shall be possible.

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And certification?


The BSB-Certificates for the Soil Quality Decree are based on a level of Assessment and Verification of Constancy of Performance (AVCP) between 2 and 1, and are accepted as a simple legitimate proof of conformity.

What are the options in the future?

- AVCP level 2 or level 1?
- Certificates for simple proof of conformity?
- For cluster certification?

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Resume and point of view Dutch producers part 1

The QA/QC-system for the SQD has resulted in a general acceptance of all construction materials when the requirements of SQD are met, i.e.:

- Only reference to the test standards, without any additional requirements, is not recommended;
- Without any proper and acceptable EU-protocols for sampling, statistical assessment, FPC, etc. in the product standards, the reliability of the declared values will be questionable.

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Resume and point of view Dutch producers part 2

- An AVCP-level of at least 2+ for regulated dangerous substances shall be required for all products under a hEN;
- A declared value based on a confidence level of 90 % and a percentile of 50 % shall be part of all product standards for regulated dangerous substances;
- To minimize a wide variation in test results additional quality protocols for laboratories are required on EU-level.

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Thank you for your attention

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