





Swedish Agency for Marine and Water Management



Länsstyrelserna

FOCUS ON CONTAMINATED SEDIMENT MANAGEMENT IN SWEDEN

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2019 RUFS – Governmental Mandate on Contaminated Sediments



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/ÅRDS

GEOTEKNISKA

INSTITUT

och Vatten

myndigheten



TOGETHER – NOT IN CO-OPERATION

A prerequisite for the assignment is that it should be carried out "together", i.e. *not only in cooperation*.

The 8 sub-projects developed all have representation from all involved authorites.

Compilation of data sources

Our vision – finding the right information is easy

Compilation of databases

- containing information on contaminated sediments
- that allow the identification of possible sources of impact

Facilitate the search of information

• users should be able to more easily find information on contaminated sediments

- Compilation of data sources on contaminated sediments.
- Mapping of contaminated sediments
- Evaluate experience from previous projects.
- Carry out pilot projects to test different methods

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FIELD INVESTIGATIONS

Goal:

- Provide a better knowledge of the importance of different industries for sediment pollution, for the development of inventory methodology
- Provide a basis for a national overview, while building knowledge on individual areas investigated

- Compilation of data sources on contaminated sediments.
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SURVEYS, 2021-2022

- Carried out in water bodies across all counties
- Limnic: 55 areas. Coastal: 16 prio one areas

NATUR

VÅRDS 緧

- Surface and deeper samples where contaminants are suspected to occur in the sediments.
- Site-dependent analyses of up to 15 different substance groups, non-target screening, and effect screening
- Chemical data will be made available via the National Data Hosting Agency for Environmental Toxins (SGU)

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STATENS GEOTEKNISKA

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PILOT PROJECTS

1. Biochar-based reactive barrier for coverage of contaminated sediments *Luleå University of Technology*

2. Thermochemical decontamination and production of commercializable fibre bank material products (TERMOSAN) *Mittuniversitetet*

3. Development of a new method for the treatment of contaminated sediments with photoelectrocatalytic degradation

Chalmers

4. Pilot experiments with freeze drying of fiber sediments Luleå Municipality







GUIDANCES

- General management guidance
- Prioritization methodology for which sediment sites to investigate.
- Guidance on risk assessment.

Prioritization methodology

Webb-guidance

Reports

Metodology to decide:

- which objects to start inventory (fas 1 Desktop)
- which objects to start investigating (phase 2 - sampling)

Alternative approaches:

- "Industry" by "industry", object by object
- Water body all objects at prioritized water bodies

Risk Assessment

Webb-guidance

Background Reports

Tiered approach

General management guidance

Webb-guidance

Coordination with updating of other SEPA and SWAM guidances





Knowledge building

Communication & Collaboration

- Guidance
- Education
- Research and development
- Eperiences and lessons learnt
- Data & Databases



Marine and

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- web site
- WS/Seminars
- Stakeholder collaboration

- Develop a national knowledge platform
- Develop and provide an expert support function.

NATIONAL KNOWLEDGE PLATFORM

An organization for

 developing and sharing knowledge and supporting sediment management

And that

 Simplifies for sediment stakeholders to navigate and find what they need



SWEDISH GEOTECHNICAL INSTITUTE NEW WEB SITE – Develop a national knowledge platform Develop and provide an expert support function. Develop and provide an expert support function.



Havs och Vatten myndigheten



Furthermore

RESEARCH ON CONTAMINATED SEDIMENTS

6 new research projects within the SEPA environmental research grant.

Funding: 3 million euros.

Call triggered by our networking and joint work













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THANK YOU

FOR YOUR ATTENTION