Regulation of mining operations – Developments within the EU

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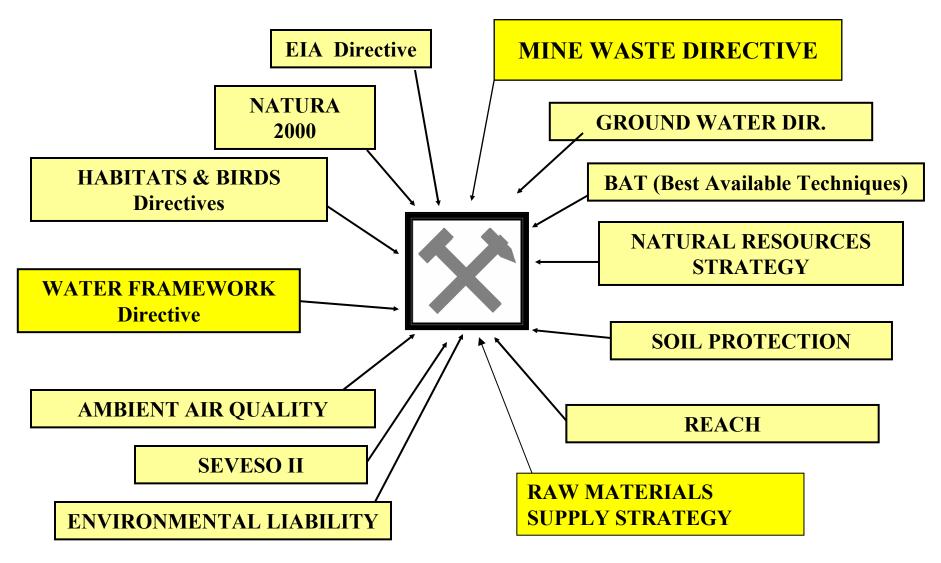
#### SveMin (Swedish Mining Association)

15th Annual BC MEND Workshop Vancouver, December 3-4, 2008



#### EUROPEAN EXTRACTIVE INDUSTRY DIRECTIVES

#### **ENVIRONMENT**





# My focus today

- Mine Waste Directive + supporting guidelines
- Water Framework Directive
- EU raw materials supply strategy



### Mine Waste Directive

Approved in March 2006

Include e.g.

- General requirements (Waste Management Plan)
- Accident prevention, information
- Content of application and permit, public participation
- Closure and after-closure
- Financial guarantees, environmental liability

http://europa.eu.int/eur-lex/index.html (Directive 2006/21/EC)



### Mine Waste Directive 1(2)

- General requirements (Waste Management Plan)
- Accident prevention, information
- Content of application and permit
- Permitting procedure, public participation
- Classification of waste facilities
- Construction and management
- Closure and after-closure
- Protection of water and soil



### Mine Waste Directive 2(2)

- Monitoring
- Financial guarantees, environmental liability
- Inventory of closed sites
- Information exchange (member states)
- Annex I "Major-accident prevention"
- Annex II "Waste Characterization"
- Annex III "Classification of waste facilities"

http://europa.eu.int/eur-lex/index.html (COM (2003) 319)



### Mine Waste Directive (cont)

- National implementation by 1 May 2008
- Development of EU Guidelines
  - Criteria for definition of inert waste
  - Technical requirements for waste characterization
  - Guidelines for the establishment of financial guarantees
  - Criteria for classification of waste facilities
- Decision expected in February 2009



### CEN WG on Waste Characterization – Tasks

- Acid Generation Behaviour
  - European Standard Static testing
  - Technical Report Kinetic testing
- Technical report on Sampling
- Technical report on applicability of existing European standards
- Development of General Guidance Document



### <u>TECHNICAL REPORT (CEN)</u> <u>General Guidance</u>

Objectives

- Put other WG deliverables into context
- Support industry (and its consultants) in the planning, execution and interpretation of waste characterisation, including the application of standards
- Support authorities in the assessment and approval of plans and reports



### General Guidance - Scope

- Cover all sectors of the extractive industry
- Cover all significant aspects of waste characterisation, from planning to interpretation and reporting.
- Refer to relevant European standards, BREFnote, international guidelines/standards, e.g. the GARD guide, where appropriate.



### Table of content:

- 1. Introduction
- 2. Waste Categories in the Extractive Industry
- 3. Planning of Characterisation of Waste from the Extractive Industry
- 4. Sampling Protocols
- 5. Geotechnical Properties
- 6. Mineralogical Composition
- 7. Chemical Analyses (total composition)



- 8. Leaching Behaviour
- 9. Microbiological Analyses
- 10. ARD Prediction Methods
- 11. Interpretation and Evaluation
- 12. Quality Assurance/Quality Control
- 13. Documentation and Reporting
- 14. References



### **Classification of Waste Facilities**

- A mining waste facility shall be classified under **category A** if one of the following conditions is fulfilled:
- A failure or incorrect operation, e.g. the collapse of a heap or the bursting of a dam, could give rise to a *major accident*, on the basis of a risk assessment taking into account factors such as the present or future size, the location and the environmental impact of the waste facility.
- It contains waste **classified as hazardous** under Directive 91/689/EEC **above a certain threshold**.
- It contains substances or preparations classified as dangerous under Directives 67/548/EEC or 1999/45/EC above a certain threshold.



### EU Water Legislation in short

- Directive 2000/60/EC of the EP and Council establishing a framework for Community action in the field of water policy.
- Environmental Quality Standards Directive
- Groundwater Directive (2006/118/EG)
- Priority substances list (nr 2455/2001/EG)
- CIS (Common Implementation Strategy) Documents

#### **Basic approach:**

- ✓ River Basin Management
- ✓ Mapping and classification of all waters
- Action plans to be developed for all waters that don't meet the criteria for "good" status.







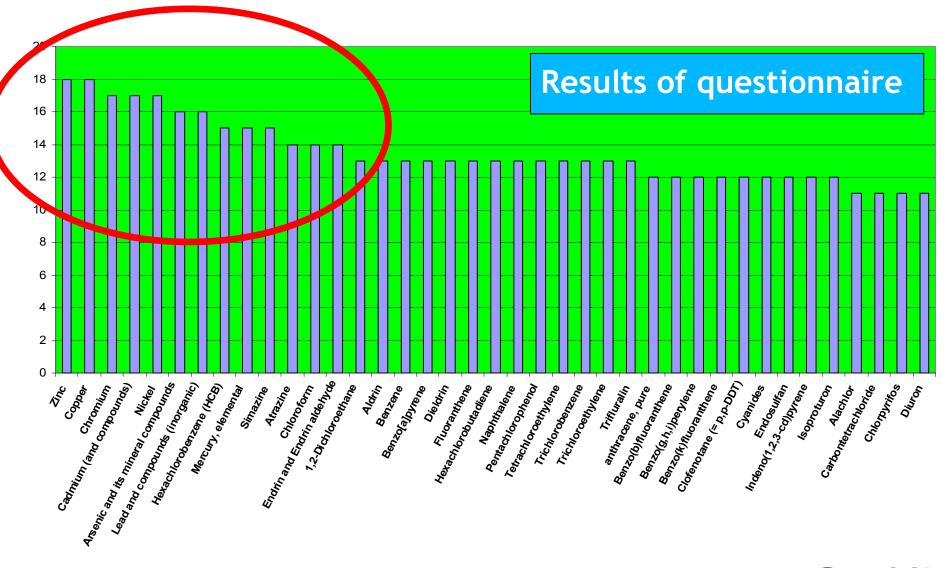


## Action plans

- What needs to be done to reach the targets?
- What measures are most Cost effective?
- Proposals: December 2008
- Consultation January August 2009
- Decisions December 2009
- Action plans are binding for authorities – not for companies and private citizens.



### Amendment of Priority substances list



**Sve***Min* 

## A new issue on the agenda

- Increasing global competition for resources
- Supply of raw materials may become a limiting factor for development
- European industry overregulated?



## EU dependent on import

Iron ore/steel83 %Nickel/stainless steel86%Zinc ore/Zinc80 %Bauxite/Alumina80 %Copper ore/Copper74%

(2003)



### Commissioner Verheugen, 5 June 2007



 The European industry is facing increasing challenges in ensuring access to raw materials, which are essential for manufacturing.

We are committed to **improve the conditions of access to raw materials**, be it within Europe or by creating a level playing field in accessing such materials from abroad.



## EU Communication

- 4 November 2008
- "The Raw Materials Initiative Meeting our Critical Needs for Growth and Jobs in Europe"
- Three pillars
  - Access to raw materials on the world market
  - Sustainable supply of raw materials from European Sources
  - Improving Resource Efficiency



# Challenges to domestic primary production

- Access to land, land use conflicts
- Regulatory framework (time for authorisation)
- Exploration, attractiveness for investment
- Costs (Investment, labour, energy)
- Availability of a skilled workforce



# Thank you for your attention!

### Just one more thing ....



# Welcome to Skellefteå and ICARD/Securing the Future in June 2009

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