

S1_10

Legislation and Technical Aspects of Regulation on Waste Containing Mercury in Germany and Europe

Thomas Brasser, GRS



UNEP Global Mercury Partnership, Waste Management - Tokyo, Japan, March 12-13, 2009

- Non-profit expert and research organisation
- Assess and improve the safety of technical facilities
- Protect man and environment from technical hazards and risks
- Focus on nuclear safety and waste management
- Customers: Ministries and authorities, European Commission
- Solely bound by the principles of science and technology
- About 400 employees, offices in several European countries
- International co-operations
- ISO 9001:2000 certified

[For details see: http://www.grs.de/module/layout_upload/grse.pdf]

Regulation (EC) No 1102/2008 on banning of exports and safe storage of metallic mercury

- Mercury = Global Threat
- Basic Aim of Regulation:
Prevent Surplus from Re-entering Global Market
- Above-ground Storage = Temporary Solution
- → Postulation of Safe Storage in a Salt Mine
or in Deep Underground Hard Rock Formations
- i.e. **Export Ban complemented by Storage Obligation**

Regulation (EC) No 1102/2008 on banning of exports and safe storage of metallic mercury

- (Art.1-1) **Export** of metallic mercury **prohibited** from **15 March 2011**
- (Art.1-3) **Mixing** of metallic mercury **prohibited** from **15 March 2011**
- (Art.2) Metallic mercury (no longer used / gained from operations) **considered as waste** and to **be disposed of** from 15 March 2011

Regulation (EC) No 1102/2008 on banning of exports and safe storage of metallic mercury

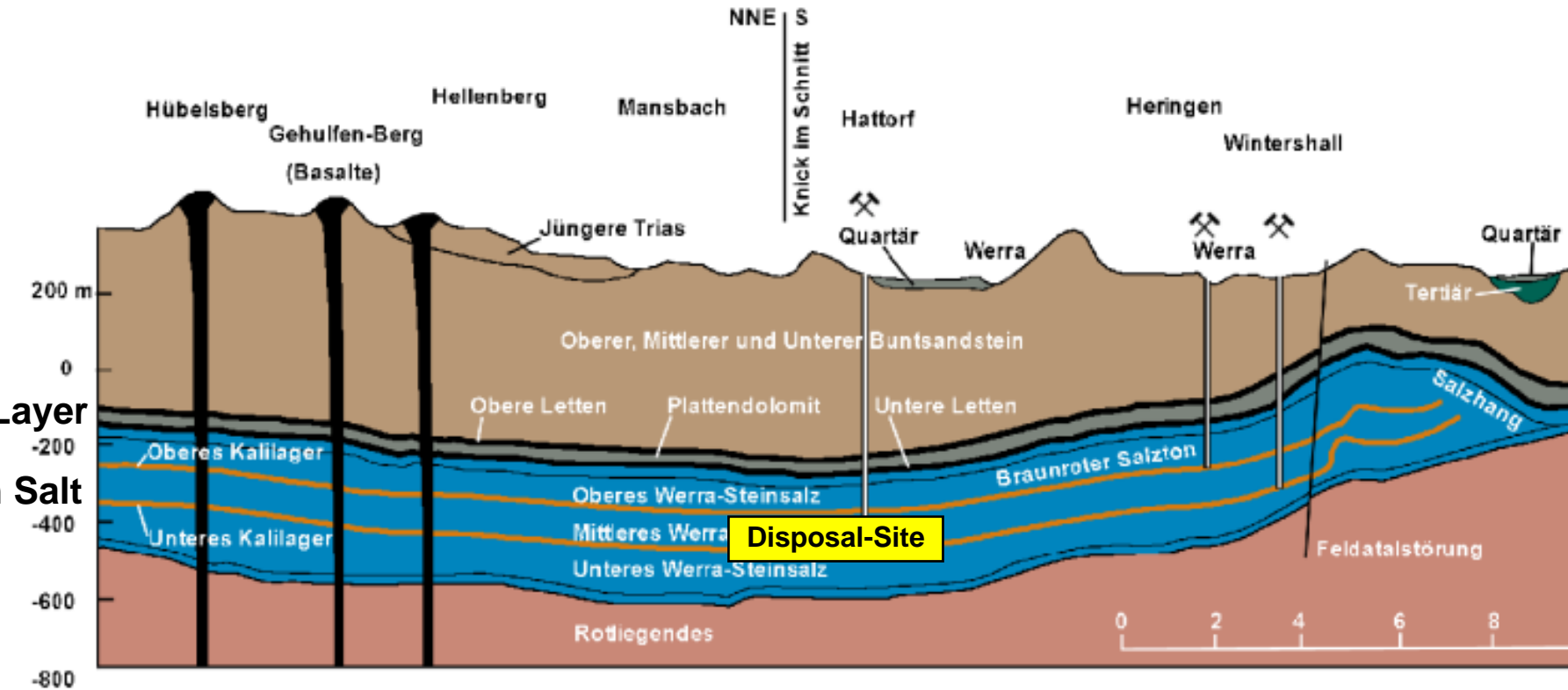
- (Art.3) Metallic mercury (as waste) to be stored **in salt mines** or in **deep underground, hard rock** formations (providing equivalent level of safety)
- (Art.8) By **1 January 2010** examination of
 - Need for **extending the export ban** to other mercury compounds
 - Need for **import ban**
 - Consideration of **research on safe disposal options**

Distribution of Salt Domes in N-Germany



+ wide areas with thick clay layers

Concept of Underground Disposal in Layered Salt

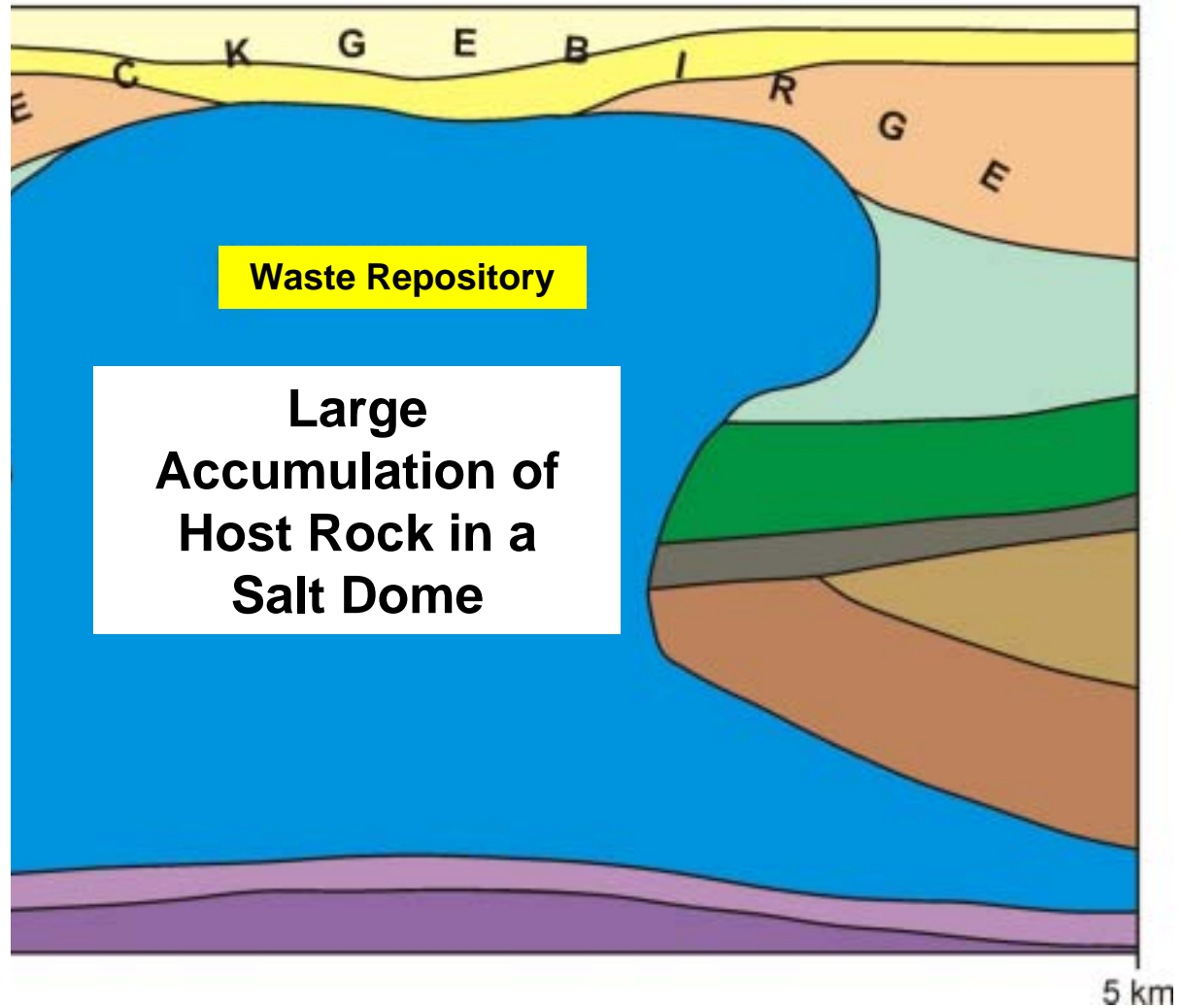


Layer
Salt

• Thickness of 500 meters • gastight



Underground Disposal in a Salt-Dome



预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_14157

