# The KONRAD Repository and its Water Law Permit

## Implementation of water law requirements of a licensed repository

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#### **The Water Law Permit**

In order to prevent the pollution of the near-surface groundwater the water law permit for the KONRAD repository limits the activities for 10 radionuclides and 2 groups of radionuclides and the masses of 94 non-radioactive harmful substances and materials relevant for water protection issues.

#### Collateral Clause No. 1:

The operator (BfS) has to examine the radioactive waste with respect to its composition. The actual disposed radionuclides and the kind and amount of non-radioactive harmful materials are continuously to be registered and to be balanced. Dangerous materials which may lead to a harmful change in the near-surface groundwater are not to be disposed of. Components of legacy waste may be estimated.

### **Examples for mass limited substances**

Substance	Max. total mass
Biphenyle	1.72 g
Platinum	10.3 g
Beryllium	24.5 kg
Mercury	43.7 kg
Oil	48,400 kg
Potassium	3,480,000 kg
Aluminium	32,000,000 kg
Iron	632,000,000 kg

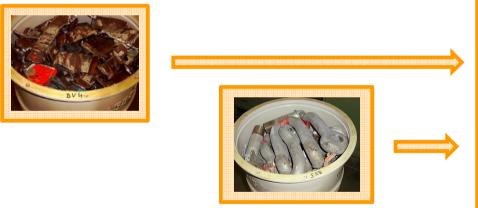
#### Collateral Clause No. 2:

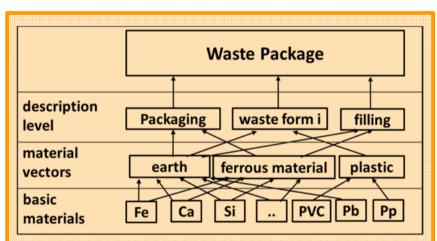
Data of the disposed wastes have to be reported annually to the competent authority NLWKN ("Niedersaechsischer Landesbetrieb fuer Wasserwirtschaft, Kuesten-und Naturschutz")

## AND:

Trace impurities may be neglected!

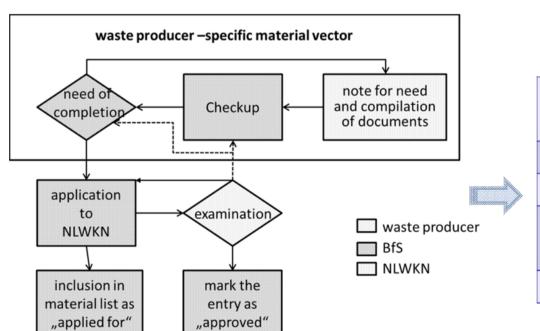






#### **Approval Procedure -**

**Inclusion of Entries in the Material and Container List** 



# **Current Status**

Status	Material List	Container List
approved	225	3
applied	25	13
in preparation	330	104
total	580	130



