

## Site (Structure) : LILW Rep.

Country: SLOVENIA

Reporting Year: 2008

Full Name: Planned repository for LILW

Location: Vrbina - Krsko

Description:

Official Website:

License Holder(s): future facility, not licensed

Comment **# 7599: The location of disposal of LILW**

According to the provisions of the Ionizing Radiation and Nuclear Safety Protection Act the site for the LILW repository should have been selected by the end of 2008, and the repository should have become operational by 2013, the decision on the site selection was moved further ahead to 2009.

In 2008, preliminary field investigations on the potential site for the LILW repository of Vrbina in the municipality of Krsko were successfully completed.

The location of the repository was confirmed in 2009.

Waste management facilities that are located at this site:

<b>Facility:</b>	<b>LILW Rep.</b>
<b>Description:</b>	planned LILW near surface silo repository

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**Disposal part of facility**                      **LILW Rep.**

The following shows disposal status for waste classes and SRS.

Waste Class	Actual	Planned
VLLW	No	No
LLW	No	Yes
ILW	No	No
HLW	No	No

List SRS?	No
List UMMT?	No

Type:	engineered near surface		
Facility is modular?	Yes		
Capacity existing (m3):	0	Capacity planned (m3):	9400

Depth (m):	53	Host medium:	sedimentary (other)
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Phase Name	Start Year	End Year	Estimate
planning and/or concept assessment	1995	2004	False
site selection	2003	2009	False
design	2006	2012	True
construction	2012	2013	True
commissioning	2014	2015	True
operation	2016	2038	True
closure	2038		True
institutional control		2338	True

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Comment **# 20257: Disposal Facility LILW Rep.**

Three repository variants have been considered in the design bases: surface repository, near surface silo repository and tunnel type repository, on the potential location Vrbina in Krško municipality. The proposal for the National spatial plan is silo type of repository. The site was approved in 2009.

The silo variant at the present stage of design is shown on Figure 1 (see attachment). Structures, used for operating stage of repository, will be placed on an embankment (for protection against flooding) and later removed. The structure itself is placed into over-consolidated Miocene silt, beneath the Sava alluvium, 15 to 50 m beneath the surface. It lays in saturated soil, and will be separated from the fresh water bearing aquifer by reinforced concrete slab covered by 5m thick clay layer. The silos structure is 33 m high and has 26 m in diameter, into which 700 concrete containers could be placed in 10 levels.

Attachment **#1815: Disposal Facility**

Silos\_structure\_repository.pdf

Figure 1: Silos structure in operating time