

Site (Data) : ZWILAG

Stock of waste as at December 2012

Country: SWITZERLAND

Reporting Year: 2012

Site Name: ZWILAG

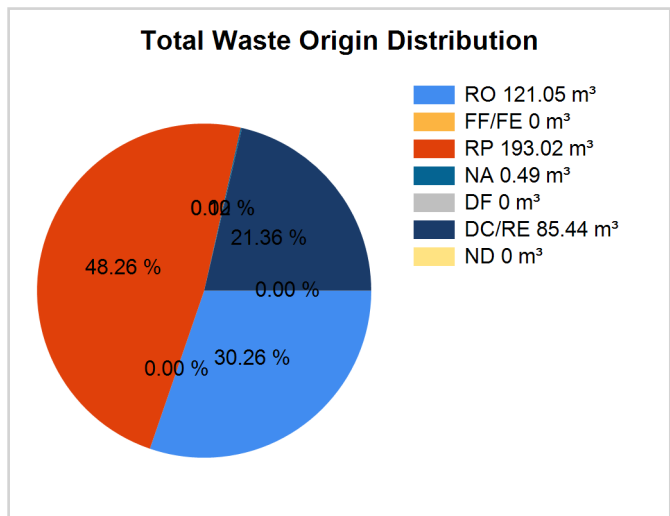
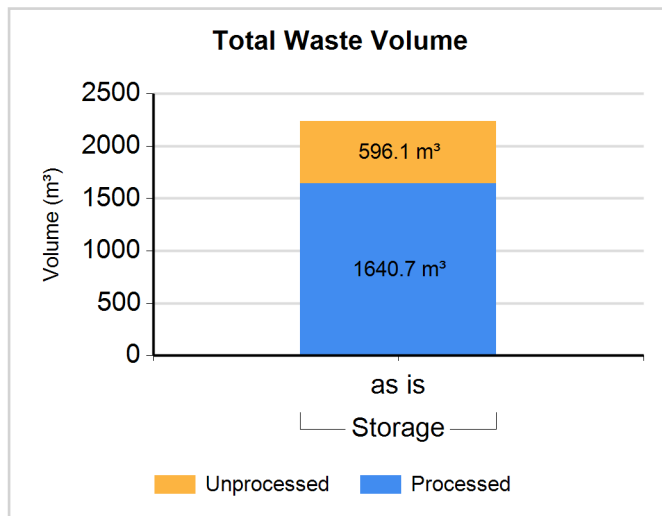
Full Name: Zentrales Zwischenlager Würenlingen

Inventory Reporting Date: December 2012

Waste Matrix Used: KEV 2004

Waste Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

Waste Class: SMA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
SMA	Storage	Y	N	1520.800	1520.800	97.65	0.00	0.00	0.27	0.00	2.08	0.00

Waste Class: ATA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
ATA	Storage	Y	N	64.500	64.500	0.00	0.00	93.02	0.00	0.00	6.98	0.00

Waste Class: HAA

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
HAA	Storage	Y	N	55.400	55.400	0.00	0.00	100.00	0.00	0.00	0.00	0.00

Waste Class: SMA ybc

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
SMA ybc	Storage	N	N	596.100	596.100	23.40	0.00	0.00	0.22	0.00	76.38	0.00

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Processing - Treatment method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Decontamination	N	N	Same	N
Incineration	N	N	Same	N
Metal Melting	N	N	Same	N
Super Compaction	N	Y		N

Processing - Conditioning method(s)

Method	Status			
	Planned	R&D program	Current practice method use over the last 5 years	Past Practice
Casting (of metal and slag)	N	N	Same	N
Cementation	N	N	Increase	N
Grouting	N	N	Increase	N

Comment **# 9721: ZWILAG Plasma Arc Incinerator/Melter**

Facility designed to incinerate/decompose/melt mixed waste (organics, metals, inorganics) fed in drums by very high temperature treatment.. Primary process residues are molten slag (non-metallic residues immersed into molten glass) and molten metals. These are casted into 145 l moulds. After waste product solidification by cooling, the moulds are overpacked in 200 l drums. Active commissioning of the facility has started in November 2004. Until the end of 2008, 587 drums have been produced within 9 test campaigns. Definitive license for facility operation was given by ENSI in September 2009.

RadioNuclide Inventory in Storage

Total Alpha Activity (GBq):	57000000
Total Beta/Gamma Activity (GBq):	4100000000

Comment **# 22630: Scope of Nuclide Inventory Data**

Reported overall activities refer to processed (i.e. conditioned) waste, only, and relate to the reference date of the submission. Information on unprocessed (i.e. yet-to-be conditioned) waste is excluded as pertinent provisional data are, frequently, assessed, reviewed or completed during the conditioning process.