

## Site (Data) : ZWILAG

Stock of waste as at December 2005

Country: SWITZERLAND

Reporting Year: 2005

**Site Name:** ZWILAG

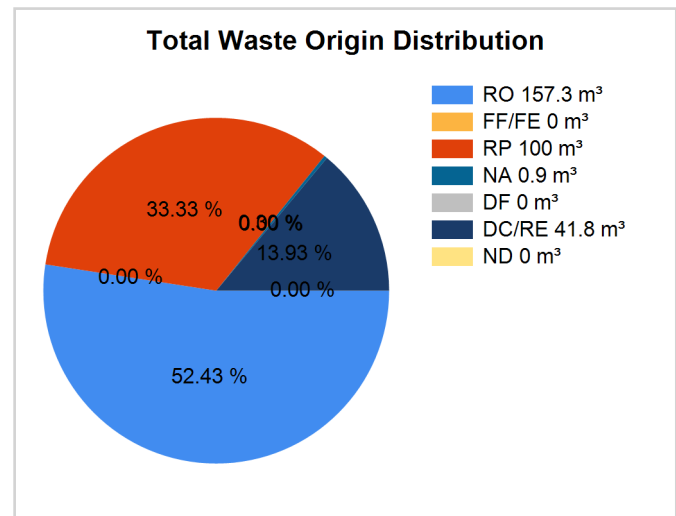
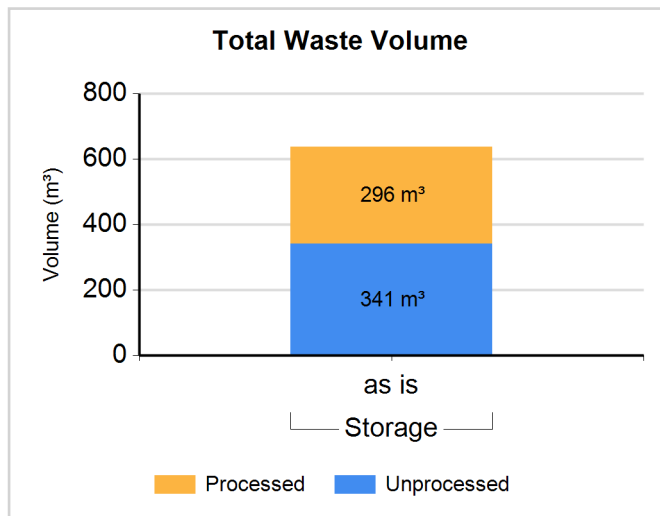
Full Name: Zentrales Zwischenlager Würenlingen

Inventory Reporting Date: December 2005

Waste Matrix Used: HSK

**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: ZWILAG-u**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
ZWILAG-u	Storage / WMF@ZWILAG	N	Y	341.000	341.000	62.70	0.00	0.00	0.50	0.00	36.80	0.00

**Waste Class: ZWILAG-p**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
ZWILAG-p	Storage / WMF@ZWILAG	Y	Y	261.000	261.000	94.60	0.00	0.00	0.40	0.00	5.00	0.00

**Waste Class: RPW-HLW**

Waste Class Name	Location / Facility	Proc	Est.	Volume "as is" (m³)	Volume "as dispo" (m³)	RO %	FF/FE %	RP %	NA %	DF %	DC/RE %	ND %
RPW-HLW	Storage / WMF@ZWILAG	Y	N	35.000	35.000	0.00	0.00	100.00	0.00	0.00	0.00	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	Increase	N
Incineration	N	N	Increase	N
Metal Melting	N	N	Increase	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	Increase	N
Cementation	N	Y		N
Grouting	N	Y		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.