REMEMBERING AZNALCÓLLAR APRIL 25, 1998
Celebrating A Long Commitment to Stabilization & Recovery

The landscape of the Doñana nature reserve, one of the largest protected areas in EU and a Ramsar World Heritage Site for its importance in bird migrations, still bears the scars of inundation by 5.2 million m$^3$ of acidic tailings from Boliden’s restart of the Aznalcóllar mine in Andalucía with an existing downstream TSF facility. The failure flow due to faulty foundations covered 3500 ha of agricultural land. The post failure response undertaken by miner and government set aside prior agreement on ultimate liabilities and was effective in stabilizing the Doñana and both affected rivers. There do remain serious not yet solvable problems with metals and arsenic in the Aznalcóllar pit which received all clean up debris and some arsenic threats on the flood plains and in the two rivers which need solution.
REMEMBERING AZNALCÓLLAR April 25, 1998

Screen References & Photo Credits

Slide 1 Photo Emilio Morenatti

Slide 2 photo Kevin Morin MDAG

1) https://www.wise-uranium.org/mdafifs.html


Slide 3 photo Ecologistas en Accion


2) Davies, Michael et.al. "Static Liquefaction of Tailings-Fundamental and Case Histories" AMEC Earth & Environmental, Vancouver 1 and Edmonton 2, Canada


Slide 4 photo


Slide 5 r photo schultze et al

1) Schultze, Martin et.al, The Aznalcóllar Pit Lake-Water Quality and Options For Remediation, Department of Lake Research of the UFZ Centre for Environmental Research, Magdeburg, 39114, Germany 2 Direccion de Recursos Minerales y Geoambiente, Instituto Geológico y Minero de España (IGME), Madrid, 28003, Spain

Slide 6 photo World Wildlife Fund, Mining In Donana


Slide 7 photo Still extracted from “GUADIAMAR RIVER AND ITS GREEN CORRIDOR”.2015 http://infohuevar.es/2015/03/04/trailer-del-documental-rio-guadiamar-y-su-corredor-verde/

Slide 8 Photo Diario del Sevilla
Slide 9

(1) https://www.theguardian.com/environment/2015/feb/25/controversial-spanish-mine-to-reopen

This bibliography represents the best research and reporting we found in our journey to document all facets of the April 25, 1998 tailings facility failure. All of these sources are authoritative and accurate and offer analysis and data that is relevant to loss prevention and response beyond this particular failure. All of these sources are therefore also consistent one to the other on virtually all relevant details. We will shortly prepare a World Mine Tailings Failures narrative and meanwhile invite you to visit our “installation” on the anniversary of this failure at [www.worldminetailingsfailures.org](http://www.worldminetailingsfailures.org). If we have missed any important papers on this failure and recovery from it, would appreciate adding them and we will revise or add slides as indicated by new sources.

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April 25, 2020


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