

Session C8 – International Experiences in Contaminated Sediment Remediation

DREDGED SEDIMENTS MANAGEMENT IN ITALY

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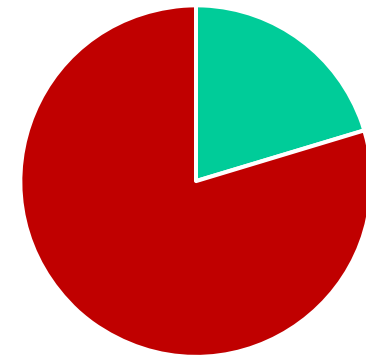
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Perimeter



■ Land boundary length ■ Coastline



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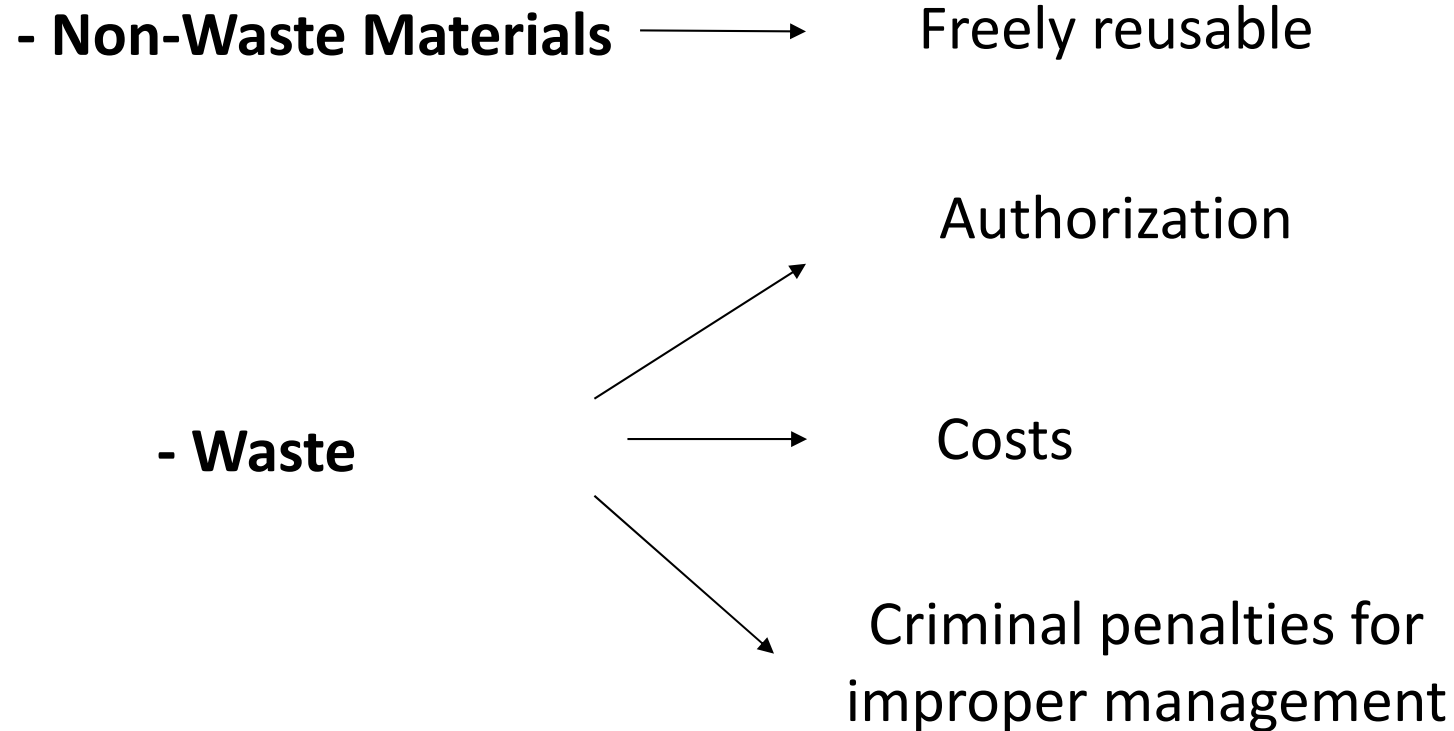




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WHAT ARE DREDGED MATERIALS?



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- I. The Normative Framework
- II. Legal Cases
- III. The Procedure to Follow

THE NORMATIVE FRAMEWORK

LATE 1990s

- At the beginning, everything was considered *waste*
- After, the European Court of Justice started dealing with the concept of *by-products*, which means material freely reusable

THE NORMATIVE FRAMEWORK

LATE 2000s

- Turning point: the EC Directive on Waste for the first time introduces key concepts such as *by-products*, *excavated soil* and *dredged sediments*

THE NORMATIVE FRAMEWORK

DIRECTIVE 2008/98/EC ON WASTE (*WASTE FRAMEWORK DIRECTIVE*)

Article 2 – Exclusions from the scope

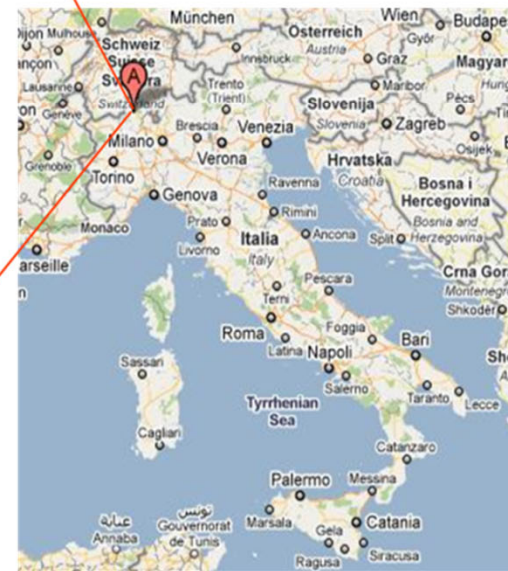
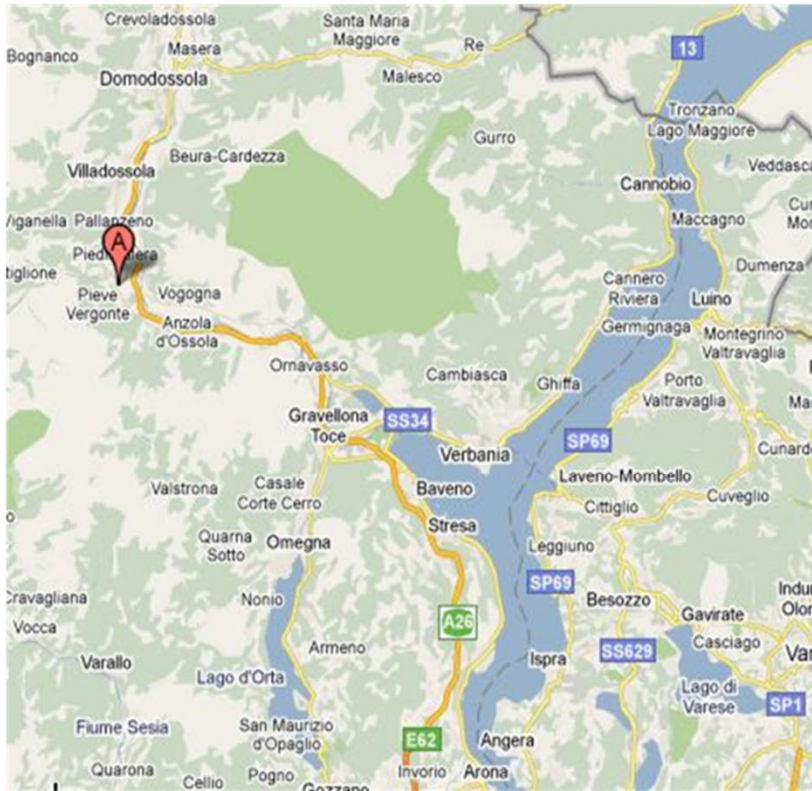
[...] 3. Without prejudice to obligations under other relevant Community legislation, sediments relocated inside surface waters for the purpose of managing waters and waterways or of preventing floods or mitigating the effects of floods and droughts or land reclamation shall be excluded from the scope of this Directive if it is proved that the sediments are non-hazardous.

THE NORMATIVE FRAMEWORK

Principal Italian Laws on Sediments

- **LG.D. n. 152/2006**: the so-called “Environmental Code”
- **M.D. 7 November 2008**
- **LG.D. n. 205/2010**
- **L. n. 68/2015**: new law on environmental crimes (“envi-crimes”)
- **M.D. n. 172/2016**
- **M.D. n. 173/2016**

LEADING CASE: LAGO MAGGIORE



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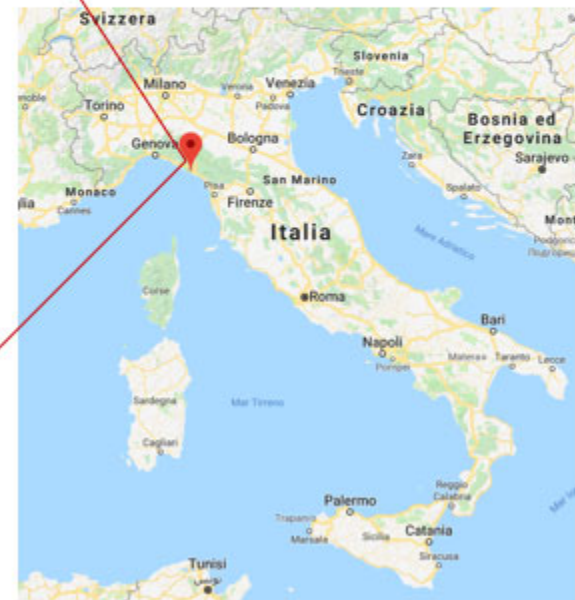


LEADING CASE: LAGO MAGGIORE

	volume to be processed	Cost for volume	Total Cost
Superficial Water	3.679.200 m ³	€ 0,25/m ³	€ 919.800
Underground water	110.489.400 m ³	€ 1,00/m ³	€ 110.489.400
Sediments 1991-1997	7 cm * 20 km ²	€ 431/m ³	€ 603.400.000
Sediments 1998-2006	8 cm * 20 km ²	€ 431/m ³	€ 517.200.000

**Total remediation costs:
1.232.009.200 €**

LEADING CASE: LA SPEZIA



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LEADING CASE: LA SPEZIA



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LEADING CASE: LA SPEZIA

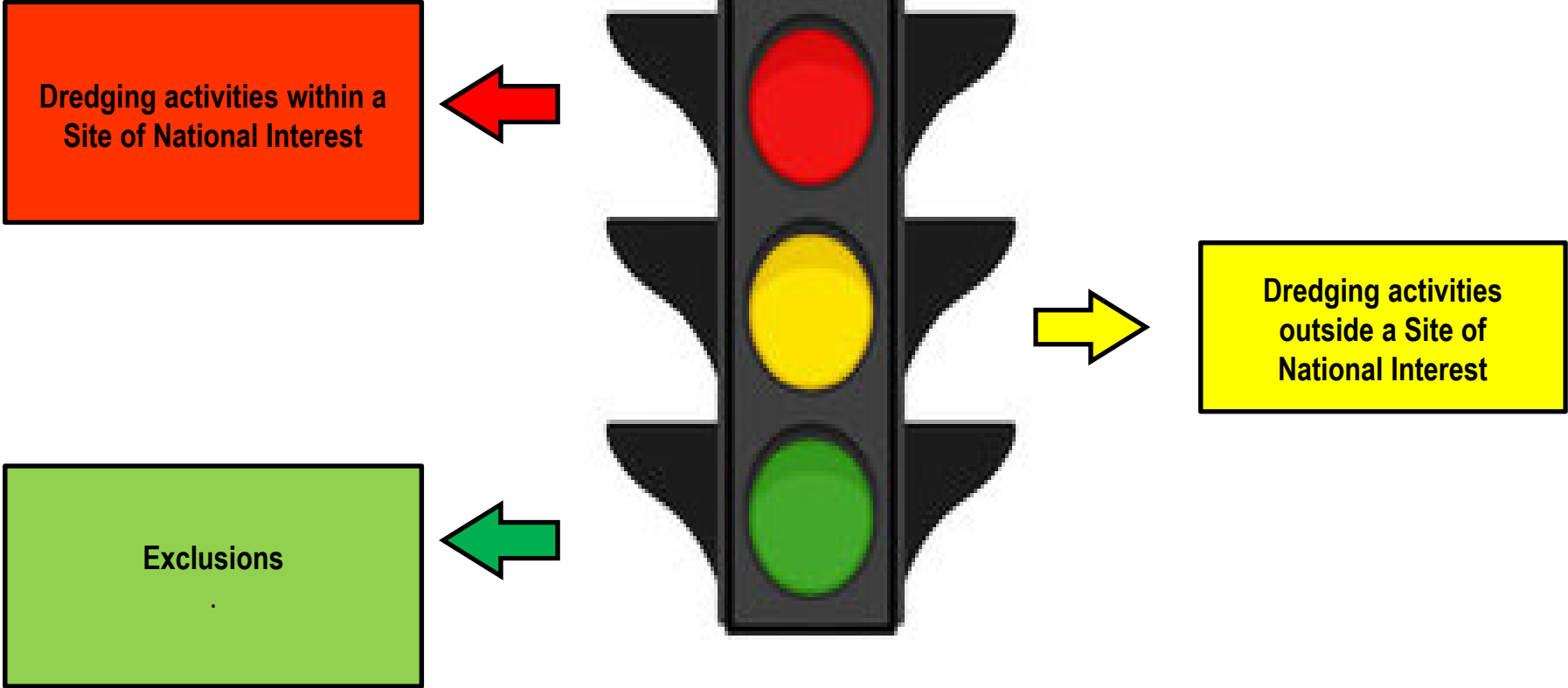
Article 452-bis of the Italian Criminal Code

Whoever abusively causes a significant and measurable compromission or deterioration of the water or of the soil [...] shall be sentenced with imprisonment ranging from two years up to six years and with a fine from 10.000 to 100.000 €.

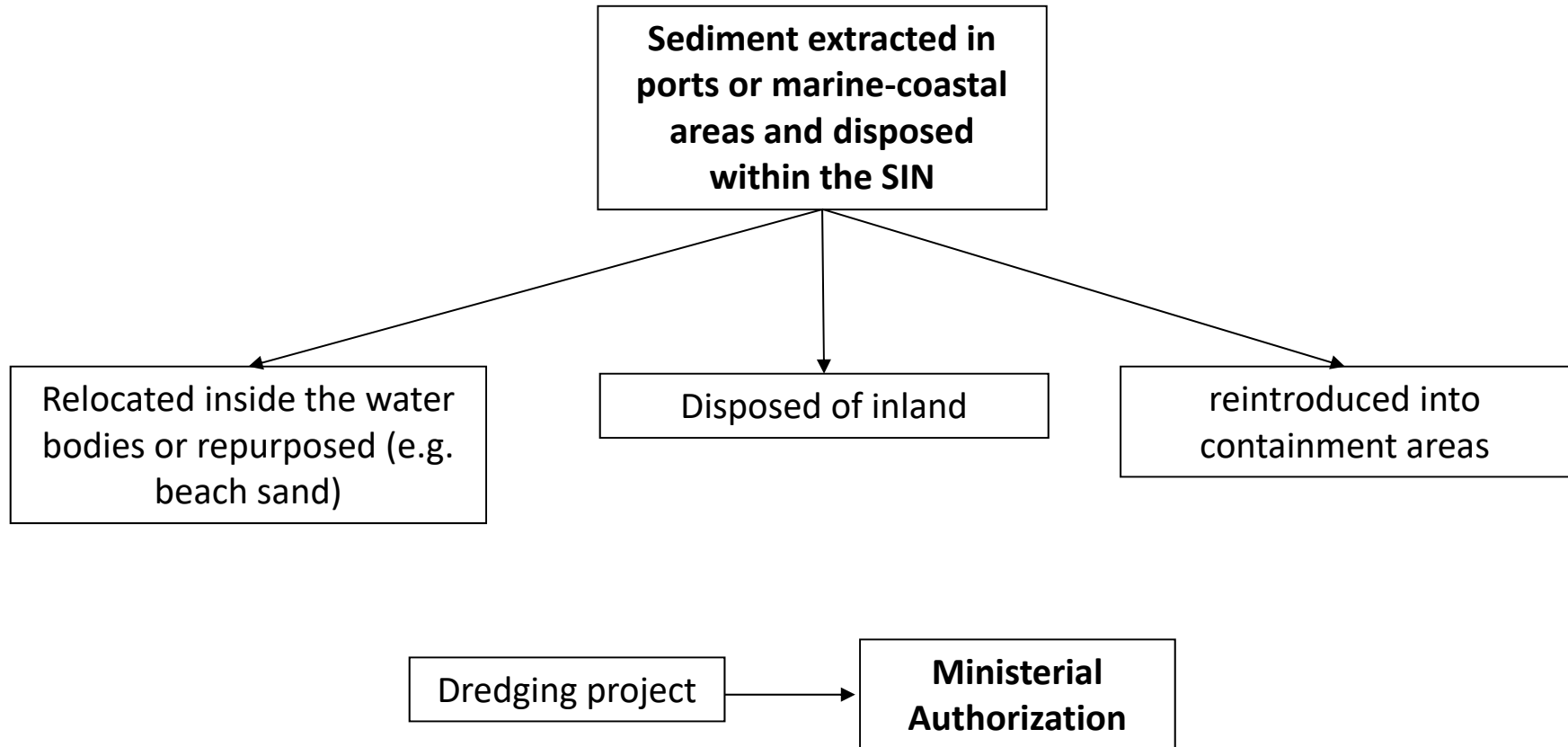
LEADING CASE: LA SPEZIA



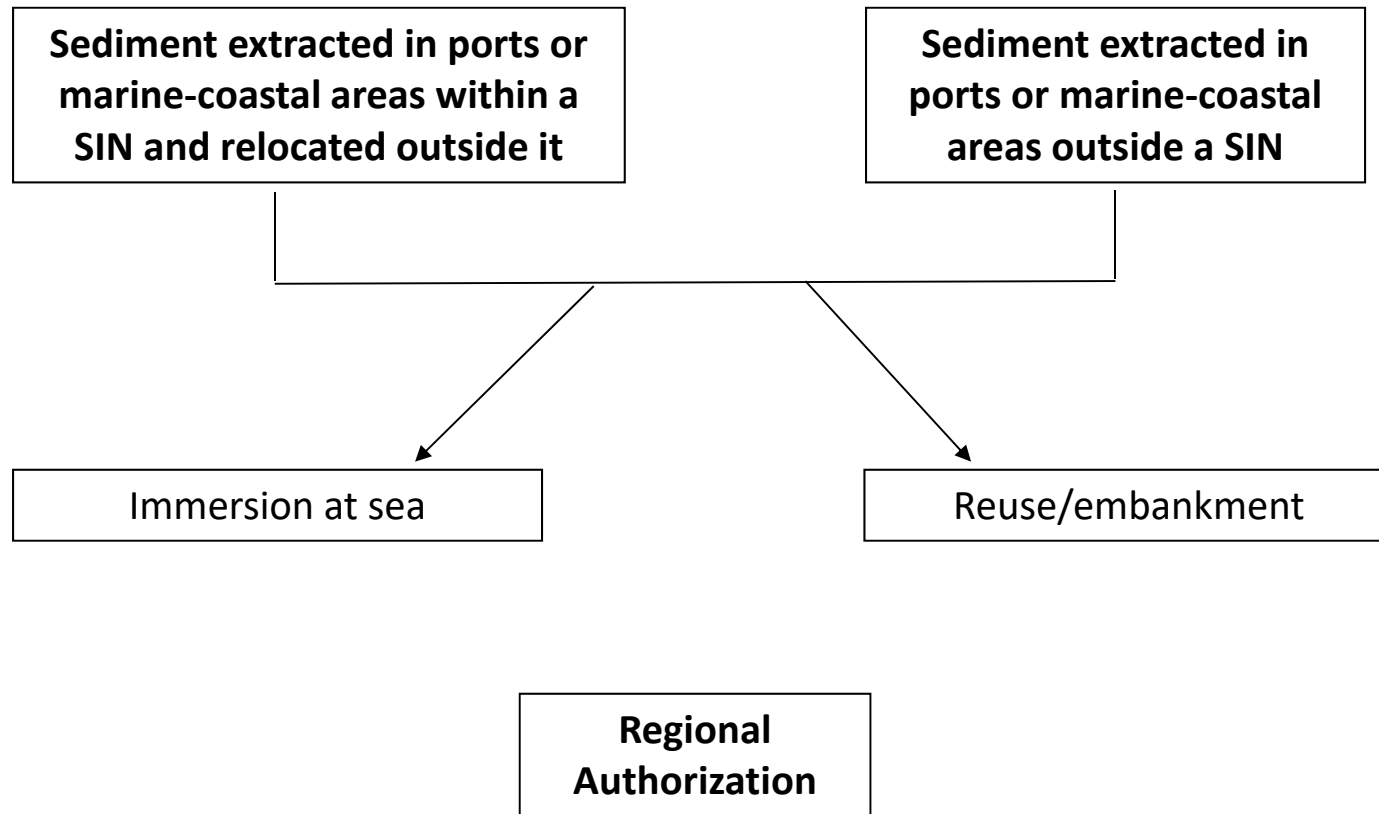
THE PROCEDURE



DREDGING ACTIVITIES WITHIN A SITE OF NATIONAL INTEREST



DREDGING ACTIVITIES OUTSIDE A SITE OF NATIONAL INTEREST

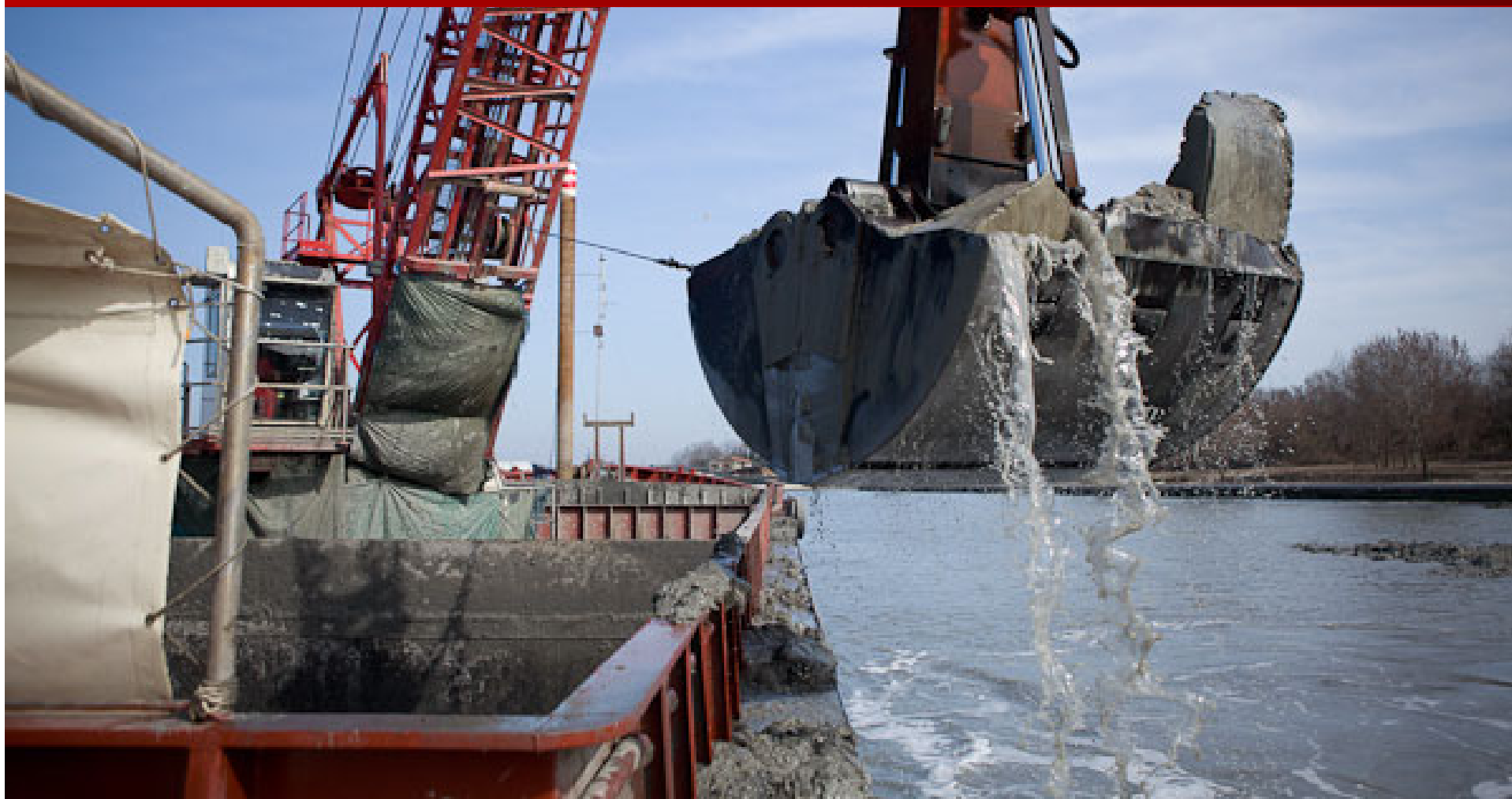


EXCEPTIONS

Non-hazardous materials
moved within superficial
waters inside ports

Non-hazardous materials
for the recovery of sandy
shores

THANK YOU FOR THE ATTENTION!



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