

GENERAL INFORMATION

Country /State - Region - Province	Person(s) completing the questionnaire	Organisation	Email	Remarks
Spain - Basque Country	Ana I. Alzola	IHOBE, Public Society for Environmental Managment/Basque Government	ana.alzola@ihobe.net	

Please fill in the questionnaire by giving short answers to the questions presented in the three spreadsheets (A, B and C). Please write your answers on the empty rows below the questions.

Please note that the questions are related only to EXCAVATED contaminated soil (except Question 1.), including treated contaminated soil.

We are only expecting one filled questionnaire per country or region/province, so please agree on completing the questionnaire with you colleagues, if more than one person from your country will be attending the meeting.

We have introduced some alternative answers and explanations to help you with your answers and to hopefully shorten the time of completing this questionnaire, so do not hesitate to use them, if they are appropriate.

When the questions are not relevant to your country or you don't have any answers, you can use the following abbreviations: NR - not relevant, NI - no idea.

Please feel also free to provide links to any websites or documents for further information.

A- General situation

Management of excavated contaminated soil

1. What are the approx. proportions of *in situ*, on site and off site techniques in site remediation?

There are no available data. "Dig and dump" is the remediation technique applied in more than 95 % contaminated sites. It could be estimated that only in 2% sites *in situ* technologies are used and in the other 2% *on site* techniques. Only a residual part of excavated soil is sent to *off site* plants, normally incineration plants (there is no soil treatment plant, except some mobile ones, in Spain)

2. What is the typical amount of annually excavated contaminated soil (tons per year)?

Please indicate, if the figure is based on estimate or compilation of statistics.

A recent report has estimated the amount of excavated contaminated soil in the period of 2005-2008 in approximately 3,2 million Tons. It is impossible to give an annually based number due to the huge differences between years. For future previsions it has been considered that a base of 2,7 tons per year could be used. It is important to remark that in the period 1998-2007 there is an estimation of about 90 million tons non contaminated soil.

3. What are the most common treatment methods for excavated contaminated soil?

Dig and dump

4. How much of all the excavated contaminated soil is typically reused as such and/or as treated?

Alternative answers: < 10%, 10-30%, 30-50%, 50-70%, 70-90%, >90%, etc. Please indicate, if the figure is based on estimate or compilation of statistics.

Contaminated excavated soil reused as such: 30-50% (34%). Contaminated excavated soil reused as treated: <10% (only a small number of sites has been remediated using technologies like soil washing or sieving that allow soil to be reused)

5. What are the main applications for reuse of excavated contaminated/treated soil?

Alternative answers: road construction, other soil construction, noise barriers, land fill covers, etc.

Other soil construction (normally to regulate or elevate soil surface) in the same site where it has been excavated from.

B- Policy issues

Management of excavated contaminated soil

6. List the existing policy instruments for the management of excavated contaminated soil (concerning instruments on reuse, treatment and landfilling)

Please shortly describe the instruments and/or provide links to websites or documents for further information

6a. Regulations

There are no regulations on this item. **Soil reuse** is not allowed according our legislation. Reuse in the same site where soil has been excavated from is permitted *case by case* by Basque Government resolution. Soil excavated in a contaminated site is only allowed to be used off site when contaminated concentrations are below background concentrations. The only specific legal references to **contaminated soil treatment** are included in the *Royal Decree 9/2005, of 14th January 2005, which establishes the list of activities that are potentially harmful for the soil and the criteria and standards for the declaration of contaminated soils*. This Royal Decree establishes the order in which treatment technologies should be applied, in very general terms). In relation to landfilling, contaminated soil is submitted to waste legislation.

6b. Guidelines

No guidelines

6c. BAT/BATNEEC criteria

No BAT/BATNEEC criteria

6d. Registers/inventories/databases (e.g. concerning information on soil streams, locations of reuse sites and treatment technologies)

If there are any, please indicate if the information is made available to the public

No registers/inventories/databases

6e. "Soil banks" or other logistic instruments for managing soil streams

No instruments

6f. Economic instruments (e.g. taxation and incentives)

No economic instruments

6g. Other instruments

7. Does the management of excavated contaminated/treated soil differ from the management of natural soil or the other waste streams?

If yes, please shortly describe how they differ (e.g. different legislation, different reuse criteria, different taxation, restrictions on the use)

When excavated, soil is considered as waste. Soil excavated from contaminated sites can only be reused *off site* in cases contaminant concentrations are below background concentrations. Other excavated soil is allowed to be applied *on site* case by case. In both cases a resolution from the Department of Environment is needed.

8. Do you foresee any changes in the practices of soil reuse due to the new Waste Directive (2008/98/EC)?

Answers expected only from the EU countries

NI

C- Technical issues
Management of excavated contaminated soil

9a. Are there guidelines and associated criteria to determine whether soil is suitable for reuse?

If yes, please shortly describe the contents of the guidelines (e.g. assessment tiers and the type of methods) and the type of criteria (e.g. soil remediation criteria, other risk-based soil concentration values, leaching criteria, toxicity criteria). Please feel also free to provide links to websites or documents for further information

No guidelines

9b. Are those mandatory or is it possible to deviate from them based on site-specific risk assessment?

If yes, please indicate if a risk assessment methodology to be used is defined

NA

10. Are there specific procedures for quality control related to reuse and/or treatment of excavated contaminated soil?

If yes, please list the elements they concern (e.g. sampling, methods, tests and interpretation of the results)

No procedures

11. Are there any requirements for structures, monitoring or site conditions related to reuse applications?

If yes, please shortly describe the requirements

No requirements