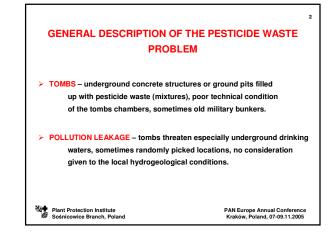
PLANT PROTECTION INSTITUTE, SOŚNICOWICE BRANCH GLIWICKA ST. 29, 44-153 SOŚNICOWICE, POLAND phone: +4832 238 75 84, fax. +4832 238 75 03 e-mail: _s:tobiecki@ior.gliwice.pl

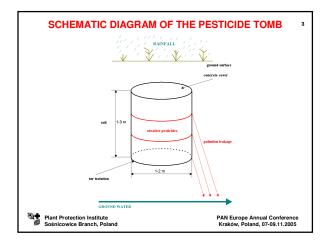
DISPOSAL OF PESTICIDE WASTE – – PROBLEMS AND PERSPECTIVES

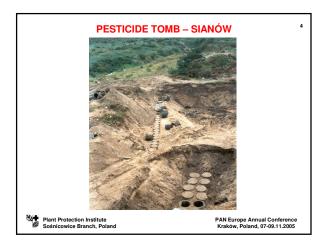
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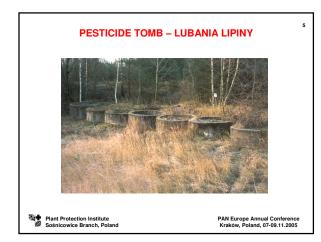
Kazimierz Waleczek, Stanisław Stobiecki, Tomasz Stobiecki

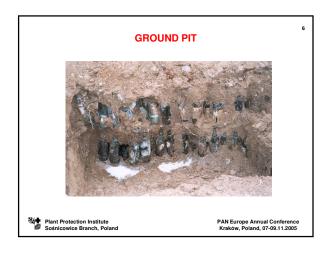
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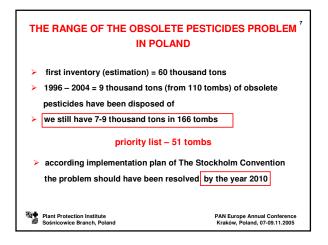


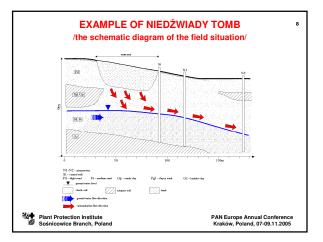












situation: after excavation of waste				
active ingredient	limit of detection /µg/litre/	Sampling point results - μg/litre		
		control well	piezometer N1	piezometer N2
YHCH /Lindane/	0,10	415,00	23,00	-
Dichlorphos	0,30	129,00	87,00	85,30
2,4 - D	0,50	1514,00	974,00	1,00
DNOC	2,00	1700,00	12,00	-
MCPA	1,00	97,00	1923,00	1,20

CURRENT STATE OF PESTICIDE WASTE DISPOSAL IN POLAND

- > The site clean-up program is 50% complete on the national scale.
- > No data for many tombs, sometimes unknown locations.
- The current average cost of thermal neutralization per ton of waste is around 7900 PLN including excavation, drums, transportation and site remediation.
- Since April 2003 there is a hazardous waste incinerator owned by Lobbe Company operating in Dąbrowa Górnicza.
- Disposal is completed in four provinces: lubelskie, lubuskie, podkarpackie, świętokrzyskie.
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12

THE BASIC RULES IN THE CASE OF PESTICIDE SOIL CONTAMINATION

- Detailed analysis of possible contamination of underground sources of drinking waters.
- Taking into account the site specific physical and chemical ground composition and geological profile.
- Risk assessment studies.
- Proper choice of the method and range of remediation.
- Analysis of economic and legal aspects

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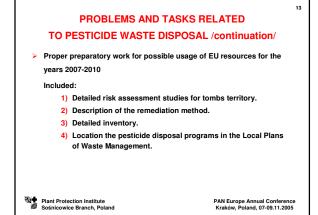
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11

PROBLEMS AND TASKS RELATED TO PESTICIDE WASTE DISPOSAL

- pesticide waste clean up projects (for years the same mistake has been made over and over again which is poor tomb site assessment done before the bidding starts).
- Insufficient description of the scope of work in the Key Order Specification.
- We still await for official guidelines by the Ministry of Environment regarding the tomb disposal procedures.
- Plant Protection Institute

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CONCLUSIONS AND PRACTICAL RECOMMENDATIONS

- 1. The solution to the problem of ground point contamination due to a leaking tomb containing obsolete pesticides requires a special and individual approach.
- Special attention should be given to proper identification of the range, type and level of contamination.
 The observation points (piezometers) should be located after a detailed hydrogeological study around the site. Additional drilling is also necessary.
- Despite standard pesticides, like sum of DDT isomers, α-, β-, γ+ICH, fenitrotion, methyloparation, toxaphene, 2,4-D, atrazine, chemical analyses should include other active ingredients and, in some cases, their reaction products.
- Highly sensitive methods need to be used for testing. For water the detectability limit is set for drinking water standards (below µg/liter).
- The results of the study should help analyze the situation from the legal perspective regarding the soil protection.

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CONCLUSIONS AND PRACTICAL RECOMMENDATIONS /continuation/

- Further remediation activities should not commence without health and environmental risk assessments towards people and animals.
- 7. The risk analysis should consist of the key elements and must take into account the specific nature of pesticide contamination.
- The selection of an appropriate remediation method base on a risk analysis should consider the technical capabilities and economic conditions. The criteria of a successful ecological outcome must be precisely described.
- There is a lack of international guidelines for the disposal of point contamination of soil with pesticides.
- 10. It is crucial to establish a monitoring network to observe the site condition after its cleanup and remediation.

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17

NEW ACTION ON OBSOLETE PESTICIDES BY IHPA

IHPA: International HCH & Pesticides Association

Organiser of the International HCH and Pesticides Forum Working towards the Elimination of Obsolete Pesticides in CEEC

Director: John Vijgen Elmevej 14, DK-2840 Holte, Denmark ph: +45 45 41 03 21, fax: +45 45 41 09 04 e-maii: john.vijgen@get2net.dk, website: http://www.ihpa.info

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THE MEETING ON OBSOLETE PESTICIDES EUROPEAN PARLIAMENT

20.09.2005, BRUSSELS, Belgium

The planned actions:

- 1. Creation of a new Working Group on "Obsolete Pesticides in Central and Eastern Europe".
- 2. Oral question to Mr. Stavros DIMAS, EU Commissioner on Environment during the November 2005 plenary session.
- 3. Joint meeting WG "OPs" and EU Commission.
- 4. Joint meeting Committee on Agriculture and Committee on Environment at the presence of interested national Ministers of the concerned countries.
- 5. Request for a Repport on the problematic of OPs in the EU.

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