

## Format for submitting pursuant to Article 8 of the Stockholm Convention the information specified in Annex E of the Convention

Introductory information	
<b>Name of the submitting Party/observer</b>	Poland, Ministry of the Environment
<b>Contact details (name, telephone, e-mail) of the submitting Party/observer</b>	Elżbieta Niemirycz (nominated observer) Tel: +4858 6288201 e-mail: <a href="mailto:Elzbieta.Niemirycz@imgw.pl">Elzbieta.Niemirycz@imgw.pl</a>
<b>Chemical name (as used by the POPS Review Committee (POPRC))</b>	lindane
<b>Date of submission</b>	27 January 2006

(a) Sources, including as appropriate (provide summary information and relevant references)	
<b>(i) Production data:</b>	Lindane was produced in Poland by one plant Data of the historical production is not available
<b>Quantity</b>	
<b>Location</b>	
<b>Other</b>	
<b>(ii) Uses</b>	Pesticide preparations containing $\gamma$ -HCH were used until 1975, when was banned
<b>(iii) Releases:</b>	The problem is especially important in the case of the Central Waste Landfill RUDNA GÓRA (in Jaworzno), where, apart from waste from lindane production, other substances not only covered by the Convention were also deposited, and where in past waste disposal has been carried out without any selection. There is no data about lindane deposition. Closed parts of the landfill were gradually cleaned up.
<b>Discharges</b>	
<b>Losses</b>	
<b>Emissions</b>	
<b>Other</b>	

(b) Hazard assessment for endpoints of concern, including consideration of toxicological interactions involving multiple chemicals (provide summary information and relevant references)	

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<b>(c) Environmental fate (provide summary information and relevant references)</b>	
<b>Chemical/physical properties</b>	
<b>Persistence</b>	
<b>How are chemical/physical properties and persistence linked to environmental transport, transfer within and between environmental compartments, degradation and transformation to other chemicals?</b>	
<b>Bio-concentration or bio-accumulation factor, based on measured values (unless monitoring data are judged to meet this need)</b>	HCH Isomers in Human Tissues in Poland, in: 4th Forum HCH and Unwanted Pesticides, 15-16.01.1996, Poznań/Poland - National Institute of Hygiene prof. Jan K. Ludwicki Tel.: (+4822) 849-70-84 Fax: +48(22) 849-74-41E-mail: <a href="mailto:k.ludwicki@pzh.gov.pl">k.ludwicki@pzh.gov.pl</a> HCH isomers in the Baltic herring: mean value 6 ng/g l.w.,(2004), Grażyna Sapota, Institute of Meteorology and Water Management, e-mail: <a href="mailto:Grazyna.Sapota@imgw.pl">Grazyna.Sapota@imgw.pl</a>

<b>(d) Monitoring data (provide summary information and relevant references)</b>																			
Concentration of lindane in river sediments in Poland (µg/kg)*																			
<table border="1"> <thead> <tr> <th>Year</th> <th>Minimum</th> <th>Maximum</th> <th>Average value</th> <th>Median</th> <th>n</th> </tr> </thead> <tbody> <tr> <td>2004</td> <td>&lt; 0.5</td> <td>9.4</td> <td>1.5</td> <td>1.0</td> <td>80</td> </tr> <tr> <td>2005</td> <td>&lt; 0.5</td> <td>2.8</td> <td>&lt; 0.5</td> <td>&lt; 0.5</td> <td>80</td> </tr> </tbody> </table>		Year	Minimum	Maximum	Average value	Median	n	2004	< 0.5	9.4	1.5	1.0	80	2005	< 0.5	2.8	< 0.5	< 0.5	80
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2005	< 0.5	2.8	< 0.5	< 0.5	80														
* Data from 80 points including in the State Environmental Monitoring. Samples were analysed by State Geological Institute																			
Concentration of γ-HCH in river sediments (in µg/kg): Wisla — Oswiecim (9.4), Bug —Krylow (7.1), Biala — Kaniow (6.7), Slezka — Wroclaw (5.5), Bystrzyca Spiczyn (4.2), Jeziorka—Konstancin-Jeziorna (3.9), Dunajec — Waksmund (3.8), San — Wrzawy (3.5), Wisla— Warszawa (3.5), Przemsza— Chelmek (3.3), Biala Tarnawska — Tarnów (2.6) Liwa — Biala Gora (2.4) State Geological Institute, Izabela Bojakowska e-mail: <a href="mailto:izabela.bojakowska@pgi.gov.pl">izabela.bojakowska@pgi.gov.pl</a> or Tomasz Gliwicz e-mail: <a href="mailto:tomasz.gliwicz@pgi.gov.pl">tomasz.gliwicz@pgi.gov.pl</a>																			
Concentration of HCH isomers (α,δ,γ HCH) in the Odra River sediments: mean value: <b>28</b> ng/g d.w., max value 177 ng/g d.w. in Wisla and Odra River, cross-section near river mouth, mean value: <b>2</b> ng/dm <sup>3</sup> and <b>4</b> ng/dm <sup>3</sup> respectively International Odra Project, (1998-2000), Institute of Meteorology and Water Management Elzbieta Niemirycz, e-mail: <a href="mailto:Elzbieta.Niemirycz@imgw.pl">Elzbieta.Niemirycz@imgw.pl</a>																			
The results of the National Veterinary Residue Control Programme indicate that food of animal origin in Poland contains very low levels of contaminants (for γ – HCH always below action level: 1000 µg/kg and in the most cases below detection limit)																			

<b>(e) Exposure in local areas (provide summary information and relevant references)</b>	
<b>- general</b>	
<b>- as a result of long-range environmental transport</b>	
<b>- information regarding bio-availability</b>	

<b>(f) National and international risk evaluations, assessments or profiles and labelling information and hazard classifications, as available (provide summary information and relevant references)</b>

<b>(g) Status of the chemical under international conventions</b>