Progress Report on the Updating of the *General Technical Guidelines for the Environmentally Sound Management of Wastes Consisting of, Containing or Contaminated with Persistent Organic Pollutants (POPs)*

1. In accordance with decisions BC-10/9 and OEWG-8/5, Canada, in consultation with the Small Intersessional Working Group (SIWG) on persistent organic pollutants (POPs), prepared a progress report for the updating of the *General Technical Guidelines for the Environmentally Sound Management of Wastes Consisting of, Containing or Contaminated with Persistent Organic Pollutants (POPs) (The General technical guidelines on POPs).*

2. The General POPs guidelines are to be updated in conjunction with the updating of existing and new specific POPs guidelines: the pesticides technical guidelines; the PCB technical guidelines; the technical guidelines for unintentionally produced POPs; the PBDE technical guidelines; and the PFOS technical guidelines. Accordingly, the general POPs guidelines will be progressively updated until its finalization for COP12 in 2015.

3. As a first step, a systematic review of each section of the existing guidelines was conducted and identified for each area where no change, modifications or new information was required. In addition, where appropriate, the rationale for changes and any outstanding consideration are explained for transparency and clarity. The conclusions of this first review is provided below in Table 1

4. Following COP11, next steps will involve seeking comments from all Parties and others to have a fist draft of the guidelines ready for discussion at the ninth meeting of the Open-Ended Working Group.

Table of content for updates to the *General Technical Guidelines for the Environmentally Sound Management of Wastes Consisting of, Containing or Contaminated with POPs*

Section	Evaluation	Rationale and other considerations
Abbreviations and acronyms	Update pending	
Units of measurement	Currently no update required	
I. Introduction		
I.A. Scope	**- Para 1:** New relevant Basel and Stockholm Conventions decisions were added -**Para 2**: The ten new POPs were added	
I.B. About POPs	-**Para 7-9:** Update pending	
II. Relevant provisions of the Basel and Stockholm conventions	-**Para 10:** Currently no update required	
II.A. Basel Convention		
II.A.1. General provisions	-**Para 11-13:** Update pending -**Para 14**: Article 4, paragraphs 2 (e) and (g) were added. -**New paragraph** was added to reflect the Basel Convention's aim to "protect human health and the environment against the adverse effects resulting from the generation, management, transboundary movements and disposal of hazardous and other wastes", as it appears in the mercury technical guidelines.	Para 14: Addition to be consistent with the Basel mercury technical guidelines.

II.A.2. POPs-related provisions	-**Para 15:** Currently no update required -**Para 16:** Annex I Y-code Y37: organic phosphorus compounds, was added Annex II Y-code Y47: Residues arising from the incineration of household wastes, was added **Para 17:** Currently no update required **Para 18**: Updated to reflect adoption status of guidance papers for characteristics H11, H12, and H1. Hazard characteristics H4.1"Flammable solids" was added and H13-Capable after disposal of yielding another hazardous material" -**Para 19 (a):** Updated to include HBB -**Para 19 (b):** Updated to include alpha-HCH, beta-HCH, chlordecone, lindane, technical endosulfan and its related isormers and PeCB. -**Para 20:** Added A1120: Waste sludges, excluding anode slimes, from electrolyte purification systems in copper electrorefining and electrowinning operations **Added A3080**: Waste ethers not including those specified on list B	Y37 was added to cover PBDE wastes. Pending confirmation from China as lead country developing the PBDE technical guidelines. Y47 was added to cover PeCB wastes. To be confirmed. According to Environment Canada, QCB (ie PeCB) may also be generated when organic compounds are burned or exposed to a large source of energy in the presence of a chlorine source. Through this mechanism, they may be formed and released to the environment as a result of waste incineration and barrel burning of household waste. Para 18: H4.1 was added to cover pentachlorobenzene. H13 was added to cover PFOS. Para 20: A1120 was added to cover sludge containing PFOS. A3080 was added to cover waste containing PBDEs. General comment: Each new POP is being fully evaluated in term of its uses to add new Annex VIII A-codes.
II.B. Stockholm Convention		
II.B.1. General provisions	-**Para 23-25**: Currently no update required	
II.B.2. Waste-related provisions	-**Para 26-27**: Currently no update required	
III. Issues under the Stockholm Convention to be addressed cooperatively with the Basel Convention		
III.A. Low POP content	-**Para 28**: Update pending -**Para 29**: Definitions for low POP content are to be determined for each of the newly listed POPs.	For consideration: Review of existing low POP contents for POPs already covered in the General Guidelines.
III.B. Levels of destruction and irreversible transformation	-**Para 30**: Definitions for levels of destruction and irreversible transformation are to be determined for each of the newly listed POPs.	
III.C. Methods that constitute environmentally sound disposal	-**Para 31:** Update pending	
IV. Guidance on environmentally sound management (ESM)		
IV.A. General considerations	-**Para 32:** Update pending	
IV.A.1. Basel Convention	-**Para 34-40**: Update pending **A new paragraph** was added regarding the 2011 Cartagena Declaration, which reaffirms that the Basel Convention is the primary global legal instrument for guiding the ESM of hazardous wastes and other wastes and their disposal	
IV.A.2. Stockholm Convention	-**Para 40:** Currently no update required	
IV.A.3. Organisation for Economic Co-operation and Development	-**Para 41-42:** Currently no update required	
IV.B. Legislative and regulatory	-**Para 43-45**: Currently no update required	

framework		
IV.B.1. Phase-out dates for production and use of POPs	-**Para 46:** Currently no update required	
IV.B.2. Transboundary movement requirements	-**Para 47-51:** Currently no update required	
IV.B.3. Specifications for containers, equipment, bulk containers and storage sites containing POPs	-**Para 52:** Currently no update required	
IV.B.4. Health and safety	-**Para 53-55:** Currently no update required	
IV.B.5. Specification of acceptable analytical and sampling methods for POPs	-**Para 56:** Currently no update required	
IV.B.6. Requirements for hazardous waste treatment and disposal facilities	-**Para 57:** Currently no update required	
IV.B.7. General requirement for public participation	-**Para 58:** Currently no update required	
IV.B.8. Contaminated sites	-**Para 59:** Currently no update required	
IV.B.9. Other legislative controls	-**Para 60:** Currently no update required	
IV.C. Waste prevention and minimization	-**Para 61-64:** Currently no update required	
IV.D. Identification and inventories		
IV.D.1. Identification	-**Para 65-68:** Currently no update required	
IV.D.2. Inventories	-**Para 69-76:** Currently no update required	
IV.E. Sampling, analysis and monitoring	-**Para 77-79:** Currently no update required	
IV.E.1. Sampling	-**Para 80-83:** Currently no update required -**Para 84:** Municipal effluents was added to the liquids that are typically sampled for POPs	Among the water liquids that are typically sampled for POPs also include municipal effluents, in which PFOS can be found.
IV.E.2. Analysis	-**Para 86-90:** Currently no update required	
IV.E.3. Monitoring	-**Para 91:** Currently no update required	
IV.F. Handling, collection, packaging, labelling, transportation and storage	-**Para 92-95:** Update pending	Consider adding more up to date references and information. Where available, SIWG members to provide most recent information.
IV.F.1. Handling	-**Para 96-97:** Update pending	
IV.F.2. Collection	-**Para 98-99:** Update pending	
IV.F.3. Packaging	-**Para 100-102:** Update pending	
IV.F.4. Labelling	-**Para 103:** Update pending	
IV.F.5. Transportation	-**Para 104-107:** Update pending	
IV.F.6. Storage	-**Para 108-109:** Update pending	
IV.G. Environmentally sound disposal		
IV.G.1. Pre-treatment	-**Para 110:** Update pending	Consider adding new Pre-treatment technologies for the ten new POPs.
IV.G.1.(a). Adsorption and absorption	-**Para 111-112:** Currently no update required	
IV.G.1.(b). Dewatering	-**Para 113:** Currently no update required	
IV.G.1.(c). Mechanical separation	-**Para 114**: Currently no update required	
IV.G.1.(d). Mixing	-**Para 115**: Currently no update required	
IV.G.1.(e). Oil-water separation	-**Para 116:** Currently no update required	
IV.G.1.(f). pH adjustment	-**Para 117:** Currently no update required	
IV.G.1.(g). Size reduction	-**Para 118:** Currently no update required	
IV.G.1.(h). Solvent washing	-**Para 119:** Currently no update required	
IV.G.1.(i). Thermal desorption	-**Para 120**: Currently no update required	
IV.G.2. Destruction and	-**Para 121-125:** Current no update required	

irreversible transformation methods	A new destruction method will be added for Japan's proposition for the plasma waste converter (PWC) technology as an environmentally sound disposal method for PCBs.	The addition of the PWC destruction technology will be fully evaluated by the SIWG on POPs. The information was in the draft guidelines for the ESM of POPs during OEWG4 but was deleted from the final draft because there was no existing relevant commercial plant at the time.
IV.G.2.(a). Alkali metal reduction	-**Para 126-139:** Currently no update required	
IV.G.2.(b). Base-catalysed decomposition (BCD)	-**Para 140-155**: Currently no update required	
IV.G.2.(c). Catalytic hydrodechlorination (CHD)	-**Para 156-170:** Currently no update required	
IV.G.2.(d). Cement kiln co-incineration	-**Para 171-185:** Currently no update required A new paragraph was added to reference the *Technical guidelines on the environmentally sound co-processing of hazardous wastes in cement kilns.*	The *Technical guidelines on the environmentally sound co-processing of hazardous wastes in cement kilns* was adopted at COP10.
IV.G.2.(e). Gas-phase chemical reduction (GPCR)	-**Para 186-200:** Currently no update required	
IV.G.2.(f). Hazardous-waste incineration	-**Para 201-214:** Currently no update required	
IV.G.2.(g). Photochemical dechlorination (PCD) and catalytic dechlorination (CD) reaction	-**Para 215-229:** Currently no update required	
IV.G.2.(h). Plasma arc	-**Para 230-243**: Currently no update required	
IV.G.2.(i). Potassium tert-Butoxide (t-BuOK) method	-**Para 244-258:** Currently no update required	
IV.G.2.(j). Supercritical water oxidation (SCWO) and subcritical water oxidation	-**Para 259-272:** Currently no update required	
IV.G.2.(k). Thermal and metallurgical production of metals	-**Para 273-286:** Currently no update required	
IV.G.2.(l). Waste-to-gas conversion	-**Para 287-300**: Currently no update required	
IV.G.3. Other disposal methods when neither destruction nor irreversible transformation is the environmentally preferable option	-**Para 301-304:** Currently no update required	
IV.G.3.(a). Specially engineered landfill	-**Para 305-306:** To be updated to reflect leachate treatment technologies as part of the specially engineered landfill disposal method.	This section will be updated to include information about landfill leachate treatment technologies as part of the specially engineered landfill waste disposal method (the *Basel Convention Technical Guidelines on Specially Engineered Landfill* requires updating).
IV.G.3.(b). Permanent storage in underground mines and formations	-**Para 307-309**: Currently no update required	
IV.G.4. Other disposal methods when the POP content is low	-**Para 310:** Currently no update required	
IV.H. Remediation of contaminated sites		
IV.H.1. Contaminated site identification	-**Para 311-312**: Update pending	.
IV.H.2. Environmentally sound remediation	-**Para 313:** Update pending	Consider adding more up to date references and information. Where

		available, SIWG members to provide most recent information.
IV.I. Health and safety	**-Para 314-317**: Update pending	
IV.I.1. Higher-risk situations	**-Para 318-320**: Update pending	Consider adding more up to date references and information. Where available, SIWG members to provide most recent information.
IV.I.2. Lower-risk situations	**-Para 321-322**: Update pending	Consider adding more up to date references and information. Where available, SIWG members to provide most recent information.
IV.J. Emergency response	**-Para 323-324**: Update pending	Consider adding more up to date references and information. Where available, SIWG members to provide most recent information.
IV.K. Public participation	**-Para 325-330**: Update pending	Consider adding more up to date references and information. Where available, SIWG members to provide most recent information.
Annex I. International instruments	Update pending	
Annex II. Examples of pertinent national legislation	Update pending	Where available, SIWG members to provide most recent information on pertinent national legislations.
Annex III. Selected analytical methods for POPs	Update to include analytical methods for new POPs where appropriate	Consider adding more up to date references and information. Where available, SIWG members to provide most recent information
Annex IV. Economics of destruction and irreversible transformation methods	Update pending	In consultation with the SIWG, this Annex is to be updated to include new destruction and irreversible transformation methods, cost estimates, and investment costs.
Annex V. Bibliography	Update pending	