

FOURTH CONFERENCE OF THE PARTIES (COP IV) TO THE BASEL CONVENTION

The fourth meeting of the Conference of the Parties to the Basel Convention (COP IV) was held in Kuching, Malaysia, from February 23-27, 1998.

Of the 23 decisions resulting from COP IV, two major decisions will contribute to the implementation of the 1995 Ban Amendment, which prohibits the export of hazardous wastes and hazardous recyclable materials from developed to developing countries. The decisions focus on the establishment of hazardous wastes/recyclables lists, and the composition of the Annex VII list of countries.

Under the Ban, Annex VII countries — which include the OECD, EC countries and Lichtenstein — are prohibited from exporting hazardous wastes and hazardous recyclable materials to countries not included in Annex VII. The COP IV decision is to leave the structure of Annex VII unchanged at this time (with no agreement to include Israel and Monaco as proposed), until the Ban Amendment comes into force. This will happen when the Amendment has been ratified by 75% of the Parties present at COP III; 62 ratifications are needed.

Canada has argued that Parties able to demonstrate that they can manage hazardous recyclable materials in an environmentally sound manner should be able to accede to Annex VII. Similarly, Canada argued that countries should be able to withdraw from Annex VII.

Two lists developed by the Technical Working Group were adopted as Annexes to the Convention. Annex VIII sets forth wastes/recyclable materials which would be covered by the Convention and thus banned for export to developing (non-Annex VII) countries.

Annex IX includes exempted wastes/materials.

Other decisions resulting from COP IV involve the establishment of regional training centres for training and technology transfer regarding the environmentally sound management of hazardous wastes and hazardous recyclable materials and the minimization of their generation in every United Nations Region except the Western Europe and Others Group (WEOG), to which Canada belongs.

In order to take action on the COP IV decisions, four working groups were established for intersessional work.

The Technical Working Group will :

- ◆ Develop policy on environmentally sound management;
- ◆ Review the lists of wastes and recyclable materials covered by the Convention and other definitional issues;
- ◆ Administer a review mechanism for changes to the lists of controlled and uncontrolled wastes and recyclable materials;
- ◆ Explore the issues regarding the ban on exports from developed to developing countries;
- ◆ Develop procedures to monitor and detect alleged cases of illegal traffic.

The Legal and Technical Working Group on Liability and Compensation is negotiating a Protocol on Liability and Compensation for incidents arising from transboundary movements of hazardous wastes/recyclable materials and their management.

The Sub-Group of Legal and Technical Experts is considering :

- ◆ Establishment of a monitoring and compliance procedure;
- ◆ A compulsory dispute resolution mechanism;
- ◆ Establishment of an emergency fund for incidents.



The *Ad-Hoc Implementation Committee* :

- ◆ Prepares Conferences of Parties;
- ◆ Develops policy on the establishment of training centres for technology transfer; on bilateral and multilateral agreements; and on all major policy areas under the Convention.

COP V, which will mark the tenth anniversary of the signing of the Convention, will be held in Basel, Switzerland, and is scheduled for December 1999.

For further information on the Basel Convention, please contact Charles Cormier at (819) 953-2172.

CONTINUOUS IMPROVEMENTS IN THE CONTROLS OF TRANSBOUNDARY MOVEMENTS

As part of a program of continuous improvement, the efficiency and effectiveness of Environment Canada's program to control transboundary movements is periodically evaluated. Based on the results of a review of operational efficiency and a study of the program by Canada's Auditor General, the Transboundary Movement Division (TMD) has undertaken or is planning a number of activities to enhance the quality of this program.

Under the *Export and Import of Hazardous Wastes Regulations*, three copies of the manifest must be submitted to Environment Canada.

Copy 1 is submitted by the generator/exporter before the shipment occurs.

Copy 2 is the customs copy, submitted by customs officials.

Copy 3 is submitted by the receiver or importer when the shipment is received.

Within thirty days of disposal or recycling, written confirmation of these activities is also required.

An overall increase since 1994 in compliance levels for submitting manifest copies may be attributed to compliance promotion efforts in TMD, including :

- ◆ Routinely contacting companies for missing copies and other day-to-day interactions;
- ◆ Keeping records of compliance promotion activities.

Over the next two years, the goal is to maintain increasing compliance levels for all three copies of the manifest and the certificate of disposal/recycling.

Activities to achieve this goal have been identified, and efforts will target companies that display a repeated pattern of non-compliance. Activities will include :

- ◆ Using a query tool developed to track monthly and annual changes in compliance;
- ◆ Tracking changes in the compliance levels of individual companies;
- ◆ Establishing criteria to distinguish where compliance promotion should be replaced with enforcement actions;
- ◆ Initiating a cycle of compliance promotion and assessment with clients.

For further information, please contact Suzanne Leppinen at (819) 953-3415.

RESI-WRITE

Question:

Where do I send Copy 1 and Copy 3 of the manifest for shipments coming into or going out of Canada?

Answer:

1. The originals of manifest Copy 1 and Copy 3 should be sent to the provincial Ministry of Environment.
2. A copy of manifest Copy 1 should be sent to Environment Canada, Transboundary Movement Division.
3. A copy of manifest Copy 3 should be sent to Environment Canada, Transboundary Movement Division.

All manifest copies sent to Environment Canada can be sent via either FAX or MAIL (see below).

Our FAX NUMBER is (819) 994-4437.

Our MAILING ADDRESS is:

Environment Canada
Operations Branch
Transboundary Movement Division
Place Vincent Massey
351 St Joseph Boulevard, 12th floor
Hull, Quebec
K1A 0H3

Question:

What information should be included on the manifest?

Answer:

Providing the NOTICE NUMBER is very important in order to track the wastes with the appropriate notification. Only Parts A and B should be completed on manifest Copy 1, but manifest Copy 3 should have Parts A, B and C fully completed.

Should you have any further questions regarding this or any other hazardous waste issue, please address them to RESI-WRITE, c/o the Transboundary Movement Division or by e-mail to Grace.Howland@ec.gc.ca. Questions will be answered either by telephone or in writing, and those which arise most frequently will be published in the next issue of *Resilog*.

**YOU WILL SOON BE ABLE TO
SUBMIT YOUR NOTIFICATIONS
AND MANIFESTS ONLINE!**

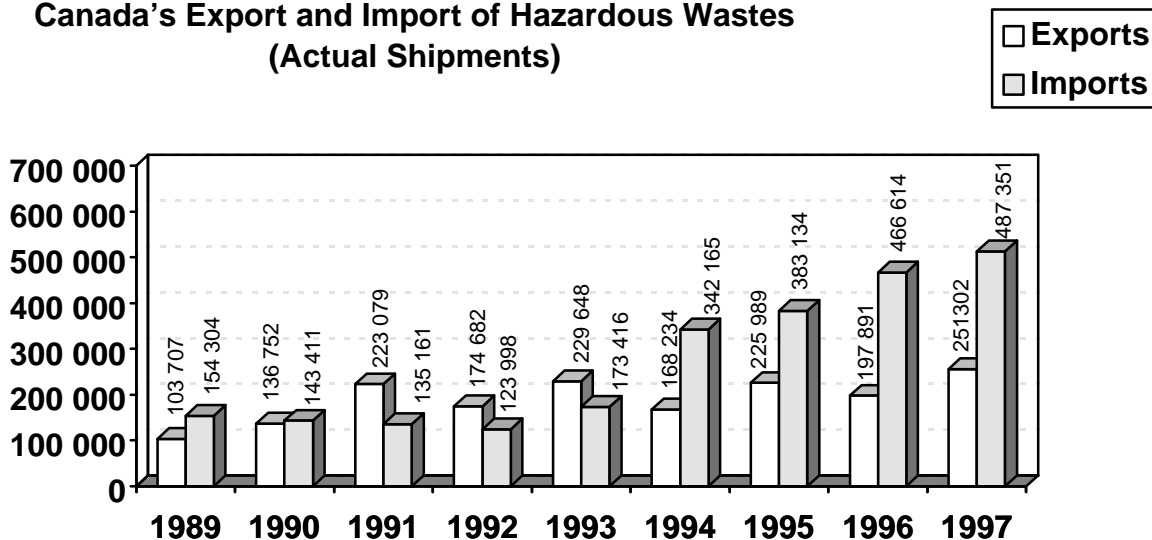
It will soon be possible to submit your notifications and manifests to the Transboundary Movement Division via the Internet. This option will be accessible using either Netscape or Internet Explorer.

The first thing you will need to do is request a certificate that will be loaded into your Web browser. This certificate will provide for secure transactions between your PC and our server. Instructions for how to get a certificate will be provided on the Web page and within 24 hours you will be contacted by our personnel with the necessary information to retrieve your certificate. Once the certificate has been loaded you will have access to the notification form, as well as the two manifest forms (Part A & B for the Consignor, Part C for the Consignee).

The forms will be accessible from the Transboundary Movement Division homepage at <http://www.ec.gc.ca/tmd/tmdhp.htm>

This initiative is part of our continuing efforts to improve the computerized tracking system, and should go a long way in facilitating correspondence with our clients. For more information, please contact Allan Adair at (819) 953-1142.

**Canada's Export and Import of Hazardous Wastes
(Actual Shipments)**



TRENDS IN CANADA'S EXPORTS AND IMPORTS OF HAZARDOUS WASTES

As the figure on the preceding page indicates, exports of hazardous wastes and hazardous recyclable materials from Canada have remained relatively stable over the years. Imports, however, show a consistent increase. The increase can be explained in part by the growing Canadian waste management industry, including an increased ability in recycling and materials recovery. Data also show that the number of countries Canada imports from is increasing. In 1995, 11 countries notified Canada for proposed shipments. In 1996, the number was 19 and in 1997 it was 24 countries. As of May 1998, 20 countries had notified Canada for proposed shipments. This trend is enhanced by international agreements such as the Basel Convention, which defines procedures for the transboundary movements of hazardous wastes and hazardous recyclable materials.

It should be noted that the figure shows actual shipments, not notified quantities.

REVIEW OF DOMESTIC DEFINITIONS OF HAZARDOUS WASTES BY THE CANADIAN COUNCIL OF MINISTERS OF THE ENVIRONMENT

The Canadian Council of Ministers of the Environment (CCME) is an intergovernmental forum for discussions and joint action on environmental issues. The CCME Hazardous Waste Task Group (HWTG) has recently completed a thorough review, conducted over the past two years, of the definitions and criteria used to classify hazardous wastes in Canada, with the goal of achieving national harmonization. The CCME reiterated Canada's commitment to meet its international obligations concerning transboundary movements of hazardous wastes and recyclable materials.

Amendments to these definitions, tests and criteria have been proposed, including a review of the definitions of "waste" and "recyclable material," in order to clearly distinguish materials destined for recycling. The CCME agreed to decouple the definitions of materials destined for final disposal

(waste) from those destined for recycling (recyclable material). As well, the review included the introduction of definitions and criteria to help distinguish between wastes and non-wastes.

The CCME also reviewed the nationally established criteria for environmentally hazardous wastes or recyclable materials having chronic toxicity or long-term effects (class 9.2; H12) and for leachable toxic waste (class 9.3; H13).

The Council is recommending the adoption of the Toxicity Characteristic Leaching Procedure as a test to measure the mobility and availability to the environment of toxic contaminants or constituents from the waste matrix.

Also during 1997, the CCME developed a harmonized listing-delisting protocol. The protocol can be used to evaluate individual wastes, recyclable materials or waste streams on a case-by-case basis in order to provide sufficient supporting rationale so that specific wastes or recyclable materials can be conditionally excluded from interprovincial controls by regulatory jurisdictions. The management scheme proposed under the exclusion protocol must afford a level of protection to the environment that is equivalent to, or greater than, the level that would be afforded by regulation.

The changes will be incorporated in Canadian regulations for which the legal authority exists, including the *Transportation of Dangerous Goods Regulations*. It is intended to eventually incorporate all of these changes in regulations under the renewed *Canadian Environmental Protection Act* (CEPA).

The CCME HWTG believes it is necessary to conduct a second multi-stakeholder consultative workshop (the first workshop was held in December 1996) to ensure the proposed amendments continue to provide the basis for national harmonization of hazardous wastes regulations. The workshop will provide an opportunity to review TDG Regulations revisions with stakeholders, solicit feedback on the direction of the HWTG amendment package and identify additional areas that need clarification in anticipation of a revised CEPA.

The workshop is being proposed for the November 1998 - February 1999 period.

TABLING OF THE RENEWED CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

Following the 1997 Canadian federal election, a renewed *Canadian Environmental Protection Act* (CEPA) was reintroduced in the House of Commons for First Reading in March 1998, and subsequently went through Second Reading on April 27, 1998. The legislation must undergo Third Reading before becoming law. Any regulatory changes will be subject to the comment period provided for in the *Canada Gazette*, Part I.

Regarding the transboundary movements of hazardous wastes and hazardous recyclable materials, the renewed CEPA will continue to be the Statute used to implement Canada's obligations under the Basel Convention, OECD Council Decisions and the Canada-U.S.A. Agreement.

With respect to hazardous wastes/recyclables controls, highlights under the new CEPA are :

- ◆ Authority to require exporters to have plans for the reduction or phasing out of the quantity of hazardous waste that is exported for final disposal;
- ◆ Authority to ban the export and import of hazardous wastes and hazardous recyclable materials to and from any country, when required under an international agreement;
- ◆ Authority to refuse the export or import of hazardous wastes and hazardous recyclable materials where it can be reasonably shown that the waste will not be managed in an environmentally sound manner;
- ◆ Authority to charge fees for processing applications, notices and other documents related to exports and imports.

For more information on the new CEPA, please visit http://www.ec.gc.ca/cepa/index_e.html

UPCOMING EVENTS

20th Canadian Waste Management Conference /
Conférence canadienne de la gestion des déchets,
September 21 - 24, 1998, Hamilton, Ontario. The
Conference theme is *From Waste to Resource
Management : Improving the Bottom Line : Today's*

Challenges and Solutions. Three sub-themes are titled The Business of Industry, The Business of Waste and The Business of Trade. For information, contact the 20th CWMC Organizer and Secretariat, Canadian Environment Industry Association, 350 Sparks Street, suite 208, Ottawa, Ontario K1R 7S8. Telephone (613) 236-6222; Fax (613) 236-6850; e-mail info@ceia-acie.ca

47th Meeting of the OECD Waste Management Policy Group, October 12 - 15, 1998, in Vienna, Austria.

14th Meeting of the Basel Technical Working Group, November 2 - 7, 1998, in South Africa.

WE ARE REDESIGNING *RESILOG* AND NEED YOUR INPUT!

The title *Resilog* was originally chosen to reflect the publication's role in providing a *log* of notifications for imports, exports and transits through Canada of hazardous wastes or *residues*, as required under the *Canadian Environmental Protection Act*, Section 45(2). Recently, a clearer definition of "waste" and the recognition of the distinction between "waste" and "recyclable material" means that the title may not adequately reflect the information contained in *Resilog*.

With this in mind, we are considering a makeover for *Resilog*, including a change in title. We welcome suggestions from readers :

- ◆ What information would you like to see?
- ◆ How can we make the publication more useful and eye-catching?
- ◆ Do you have suggestions for a new title?

The next issue will be dated December 1998. Suggestions received before October 15 will be considered. Please feel free to forward suggestions to Grace Howland, Transboundary Movement Division.

Telephone (819) 994-0599
Fax (819) 997-3068
grace.howland@ec.gc.ca

Parties to the Basel Convention (May 1998)

<i>Antigua & Barbuda</i>	<i>Comoros</i>	<i>Hungary</i>	<i>Mauritius</i>	<i>Philippines</i>	<i>Sweden</i>
<i>Argentina</i>	<i>Costa Rica</i>	<i>Iceland</i>	<i>Mexico</i>	<i>Poland</i>	<i>Switzerland</i>
<i>Australia</i>	<i>Côte D'Ivoire</i>	<i>India</i>	<i>Micronesia</i>	<i>Portugal</i>	<i>Syria</i>
<i>Austria</i>	<i>Croatia</i>	<i>Indonesia</i>	<i>Monaco</i>	<i>Qatar</i>	<i>Tanzania</i>
<i>Bahamas</i>	<i>Cuba</i>	<i>Iran</i>	<i>Mongolia</i>	<i>Republic of Korea</i>	<i>Trinidad & Tobago</i>
<i>Bahrain</i>	<i>Cyprus</i>	<i>Ireland</i>	<i>Morocco</i>	<i>Republic of Yemen</i>	<i>Tunisia</i>
<i>Bangladesh</i>	<i>Czech Republic</i>	<i>Israel</i>	<i>Mozambique</i>	<i>Romania</i>	<i>Turkey</i>
<i>Barbados</i>	<i>Denmark</i>	<i>Italy</i>	<i>Namibia</i>	<i>Russian Federation</i>	<i>Turkmenistan</i>
<i>Belgium</i>	<i>Ecuador</i>	<i>Japan</i>	<i>Nepal</i>	<i>St. Kitts & Nevis</i>	<i>United Arab Emirates</i>
<i>Belize</i>	<i>Egypt</i>	<i>Jordan</i>	<i>Netherlands</i>	<i>Saint Lucia</i>	<i>United Kingdom</i>
<i>Benin</i>	<i>El Salvador</i>	<i>Kuwait</i>	<i>New Zealand</i>	<i>St. Vincent & Grenadines</i>	<i>Uruguay</i>
<i>Bolivia</i>	<i>Estonia</i>	<i>Kyrgyzstan</i>	<i>Nicaragua</i>	<i>Saudi Arabia</i>	<i>Uzbekistan</i>
<i>Botswana</i>	<i>European Economic Community (EEC)</i>	<i>Latvia</i>	<i>Nigeria</i>	<i>Senegal</i>	<i>Vietnam</i>
<i>Brazil</i>	<i>Finland</i>	<i>Lebanon</i>	<i>Norway</i>	<i>Seychelles</i>	<i>Yugoslav Republic, former</i>
<i>Bulgaria</i>	<i>France</i>	<i>Liechtenstein</i>	<i>Oman</i>	<i>Singapore</i>	<i>Zaire</i>
<i>Burundi</i>	<i>Germany</i>	<i>Luxembourg</i>	<i>Pakistan</i>	<i>Slovak Republic</i>	<i>Zambia</i>
<i>Canada</i>	<i>Greece</i>	<i>Malawi</i>	<i>Panama</i>	<i>Slovenia</i>	
<i>Chile</i>	<i>Guatemala</i>	<i>Malaysia</i>	<i>Papua New Guinea</i>	<i>South Africa</i>	<i>A total of 119</i>
<i>China</i>	<i>Guinea</i>	<i>Maldives</i>	<i>Paraguay</i>	<i>Spain</i>	<i>countries + the EEC</i>
<i>Colombia</i>	<i>Honduras</i>	<i>Mauritania</i>	<i>Peru</i>	<i>Sri Lanka</i>	

**COUNTRIES THAT HAVE RATIFIED THE BASEL BAN AMENDMENT
(May 1998)**

<i>Denmark</i>	<i>Luxembourg</i>	<i>Spain</i>	<i>United Kingdom</i>
<i>Finland</i>	<i>Norway</i>	<i>Sweden</i>	<i>Ecuador</i>

The intention of the Ban Amendment is that shipments of hazardous wastes and recyclable materials from Annex VII countries, including Canada to non-Annex VII countries will be prohibited. Please note that Canada's *Export and Import of Hazardous Wastes Regulations* already prohibit exports when the receiving country does not consent to receipt of the material.

RESILOG is published on a semi-annual basis by the Transboundary Movement Division, Environment Canada. For more information or changes to the distribution list, write to :

Resilog, Transboundary Movement Division, TPPD, Environment Canada, 12th floor, 351 St. Joseph Boulevard, Hull, Quebec K1A 0H3. Phone (819) 997-3377 or Fax (819) 997-3068.

Visit the Transboundary Movement Division homepage at www.ec.gc.ca/tmd/tmdhp.htm

PUBLICATION OF NOTICE INFORMATION

As required under Section 45 of the *Canadian Environmental Protection Act* (CEPA), Tables 1, 2 and 3 describe notices for proposed exports, imports and transits of hazardous wastes, received by Environment Canada in the last six months of 1997.

Definitions for Tables 1, 2 and 3

Battery Wastes: waste whole or crushed batteries and battery acid.

Biomedical Wastes: as defined in the CCME Guidelines for the Management of Biomedical Wastes in Canada, plus infectious waste (TDGR class 6.2).

Corrosive Liquids: waste acidic or basic liquids and solutions (TDGR class 8).

Corrosive Solids: waste acids and bases in solid form (TDGR class 8).

Environmental Hazards: liquid and solid wastes that could pose a danger to the environment (TDGR class 9.2).

Flammable Liquids: waste liquids that are ignitable (TDGR class 3).

Flammable Solids: waste ignitable, polyphoric or water reactive solids (TDGR class 4).

Gases: waste aerosols, compressed and liquefied gases (TDGR class 2).

Halogenated Organic Wastes: waste halogenated organic solvents, liquids and solids.

Inorganic Wastes: waste inorganic substances and solutions.

Leachable Toxic Wastes: wastes that come within TDGR class 9.3.

Metal & Mineral Wastes: metal/mineral bearing wastes, metal treatment and processing wastes.

Non-halogenated Organic Wastes: waste non-halogenated organic solvents, liquids and solids.

Oils/fuels: waste gasoline, diesel, petroleum processing wastes anti-knock mixtures.

Oxidizers: oxidizing wastes and organic peroxide wastes (TDGR class 5).

Paint-Related Wastes: waste paints, resins, lacquers, inks, paint thinners, adhesives.

Pesticide Wastes: waste biocides and wastes contaminated with pesticides.

Poisonous Liquids: waste liquids and solutions that are toxic/poisonous (TDGR class 6.1).

Poisonous Solids: wastes in a solid form that are toxic/poisonous (TDGR class 6.1).

Polychlorinated Biphenyls: wastes that contain more than 50 mg/kg of PCBs.

Quantity Pending: quantity notified for which the notice has been sent for approval to the competent authorities and for which no reply has been received.

Quantity Consented: quantity notified for which all of the competent authorities have granted consent to the proposed movement of hazardous wastes.

Quantity Objected: quantity notified for which any of the competent authorities has refused to grant consent to the proposed movement of hazardous wastes.

TDGR: *Transportation of Dangerous Goods Regulations*, 1985, as amended.

REMINDER: How to read Tables 1, 2 and 3

The name of the notifier is arranged alphabetically on the left and the waste group across the top. For exports and imports, a letter code representing the name of the country of origin (imports) or destination (exports) is entered in the row corresponding to the name of the notifier and in the column for that waste type. The legend of country codes is given at the bottom of each table. For transits, the actual movement is described as an "X" entered in the appropriate column for that waste group and row for each notifier.

TABLE 1

Notices Received for Proposed Exports of Hazardous Wastes
(3rd and 4th quarters 1997)

Name of the Canadian Exporter	Waste Group																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
363027 B.C. Ltd.					V															
Abitibi Price																				V
Aimco Solrec Ltd.						V	V													
Albright & Wilson																				V
Alcan											V									
American Iron & Metal Co. Inc.											V	V								
Amoco Fabrics and Fibers, Ltd.							V													
Anachemia Ltd.						V														
Anachemia Solvents Div. of Fielding Chem						V														
Atomic Energy Canada																				V
B.F.I.																		V		
B.W.A. Treatment Technologies			V									V								
Borden Catelli																				V
Briqueterie St Laurent																				V
Browning-Ferris Industries		V																V	V	
Canadian Pacific Railways																				V
Canadian Reynolds Metals												V								
Cargill Ltd.																				V
Cascades East Angus Inc.			V																	
CEDA-Reactor Ltd.					V	V														
Century Circuits Inc.			V																	
Chemcycle Environment Inc.											V									
Chemrec Inc.						V												V		
City of Vancouver					V															
Cominco Ltd.																		Z		
Corbec Corporation			V									V								
Court Galvanizing			V									V								
Criterion Catalyst Canada Ltd.					V															
Custom Environmental Services Ltd.																				V
Da-Lee Waste Oil Services											V									

Country of Destination

V - USA W - Belgium and USA X - Germany Y - France and USA Z - Spain

Waste Group

- | | | |
|--------------------------|------------------------------------|-------------------------------|
| 1. Battery Wastes | 8. Gases | 15. Oxidizers |
| 2. Biomedical Wastes | 9. Halogenated Organic Wastes | 16. Paint-Related Wastes |
| 3. Corrosive Liquids | 10. Inorganic Wastes | 17. Pesticide Wastes |
| 4. Corrosive Solids | 11. Leachable Toxic Wastes | 18. Poisonous Liquids |
| 5. Environmental Hazards | 12. Metal and Mineral Wastes | 19. Poisonous Solids |
| 6. Flammable Liquids | 13. Non-Halogenated Organic Wastes | 20. Polychlorinated Biphenyls |
| 7. Flammable Solids | 14. Oils / Fuels | |

TABLE 1

Notices Received for Proposed Exports of Hazardous Wastes
(3rd and 4th quarters 1997)

Name of the Canadian Exporter	Waste Group																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Dow Chemical Canada Inc.					V								V							
Dylex Ltd.																				V
Dynamic & Proto Circuits Inc.			V																	
Enviro West Inc.						V					V									
Fluorescent Lamp Recyclers Inc.											V									
Ford Motor Co. of Canada			V																	
General Electric Canada Inc.			V																	
General Scrap & Car Shredder	V																			
Goodyear Canada, Inc.																				V
Halton Board of Education																				V
Hammerson Canada Ltd.																				V
Harvest Environmental						V			V											
Hazco Environmental Services					V															
Hiram Walker & Sons																				V
Hotz Environmental Services Inc.	V					V										V				
IMC Kalium																				V
Imperial Oil									V											
Imperial Tobacco																				V
Inco Limited																				V
Ingot Metal Company Ltd.										V										
Interior Enviro-Tech, Inc.									V											
Irving Pulp and Paper Limited			V																	
Keene-Widelite Inc.																				V
Kimberly-Clark Nova Scotia			V																	
Kimberly Clark Forest Products																				V
Kodak Canada Inc.			V																	
Lacombe Waste Services			V		V	V	V						V							
Laidlaw Environmental Services	V		V	V	V	V	V	V	V	V	V	V	V		V	V	V	V	V	V
Lakehead Board of Education																				V
Lakehead Scrap Metal	V																			
Les Services Env. de l'Est Inc.											V									
Lightning Circuits			V																	
Litton Systems											V									
Lucas Aerospace																				V
Lynx Environmental Services Ltd.							V		V											
MacDermid Chemicals Inc.			V																	
Maple Leaf Poultry																				V
Maratek Environmental Inc.			V																	

Country of Destination

V - USA W - Belgium and USA X - Germany Y - France and USA Z - Spain

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Name of the Canadian Exporter	Waste Group																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
MARSULEX INC.			V																	
McMaster Hospital																				V
Med-Tech Environmental Ltd.		V																V		
MIDA Metals International Inc.											V									
Ministry of Transport of Ontario																				V
New Brunswick Power Corporation					V															
Newalta Corporation						V	V				V				V		V	V		
Noranda Mining & Exploration Inc.											V									V
Norco-Calex																				V
Northern Telecom Canada Ltd.					V															V
Northwest Smelting & Refining Ltd.	V										V									
NOVA Chemicals (Canada) Ltd.			V	V	V	V	V													
Nova Scotia Power Corp.					V															
Nu-Life Industries Inc.	V				V						V									
Oakside Chemicals Ltd.						V														
P.C. World			V																	
Pacific Metals Ltd.												V								
Philip Enterprises Inc.			V	V		V	V				V	V				V		V	V	
Philip Environmental	V		V					V	V						V					
Port Colbourne Hydro Electric Comm.																				V
Power Commission, City of Saint John																				V
Prototype Circuits Inc.			V																	
Pure Metal Galvanizing			V									V								
Pyroval Inc.		V																V		
Quali-T-Galv Inc.												V								
Quantex Technologies			V								V	V								
Queens University			V			V	V						V							
Raw Materials Corp.	Y		V							V		V						V	V	
RexCan Circuits			V																	
Riverside Forest Products Ltd.					V															
Royal Canadian Mint			V	X																
S.E.C.A.L. Alcan Ltd.											V									
Safety-Kleen Corp.			V	V	V	V	V	V	V		V		V	V		V		V	V	

Country of Destination

V - USA W - Belgium and USA X - Germany Y - France and USA Z - Spain

Waste Group

- | | | |
|--------------------------|-----------------------------------|------------------------------|
| 1. Battery Wastes | 8. Gases | 15.Oxidizers |
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TABLE 1

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(3rd and 4th quarters 1997)

Name of the Canadian Exporter	Waste Group																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Samco Resources & By-Products							V			V		V								V
Sears Canada																				V
Slater Steel																				V
Stericycle of British Columbia		V																		
Synlube (Div. 881488 Ontario Ltd.)			V																	
The Mitchner Institute																				V
The Ontario Jockey Club																				V
Theirry Mine																				V
Tree Island Industries Ltd.			V																	
Tuyaux Wolverine Canada																				V
Ultramar Canada Inc.			V									W								
Uniroyal Chemical Ltd.			V		V															
University of Manitoba																				V
University of Waterloo																				V
Westech Suppression Systems Ltd.								V												
Wheatley PUC																				V
White Tanning Co., Ltd.											V									
WITCO																				V
Xerox Corporation									V											

Country of Destination

V - USA W - Belgium and USA X - Germany Y - France and USA Z - Spain

Summary of Notice Status and Quantity Notified for Proposed Exports *
(3rd and 4th Quarters 1997)

Number of Duly Completed Notices Received	469
Number of Waste Streams Involved	910
Total Quantity Notified	(tonnes) 1 490 921
Quantity Consented	(tonnes) 1 486 182
Quantity Objected	(tonnes) 50
Quantity Annulled	(tonnes) 1 100
Quantity Pending	(tonnes) 3 589

*** NOTE:** In the case of export and import notices, the quantity consented is not the same as the quantity shipped. Exporters and importers routinely overestimate waste quantities on their notices, given that they must project the physical and chemical nature of hazardous wastes that will be shipped over a period of one year. Actual movements are tracked through a manifest database.

TABLE 2

Notices Received for Proposed Imports of Hazardous Wastes
(3rd and 4th quarters 1997)

Name of Canadian Importer	Waste Group																			
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Anachemia Solvents Div. of Fielding Chem						A		A	A											
ATC Environmental Group Inc.					A															
C.R.I. Environmental Inc.			A	A	A	A	A	A	A	A			A		A	A	A	A	A	A
Catalyst Recovery Canada Ltd.					A		A													
Chem-Security Systems, Inc.																				B
Chemrec Inc.					A	A			A				A	A				A		
Cominco Ltd.	A				A		A			A									E	
Cyanide Destruct Systems Inc.										A		A						A		
Eaglebrook Environmental Corp.			A																	
Falconbridge Limited					F						A									G
Fanchem Ltd.			A																	
Grace Bioremediation Technologies													A							
Hotz Environmental Services Inc.			A			A									A	A	A	A		
Inco Limited					A															
Laidlaw Environmental Services	H		I	I	I	I	H	I	H	H	A	J	H	H	I	H	K	I	I	
Lynx Environmental Services Ltd.				A							A	A							A	
Métallurgie du Cuivre Noranda											A									
Métallurgie Noranda Inc., Fonderie Horne				A	A		L				M	A								
Noranda Mining & Exploration Inc.											A									
Nova Pb Inc.	A										A									
Philip Enterprises Inc.	A		A	A		A	A		A	A	A	A	A		A			A	A	
Philip Environmental Services			A	A							A	A						A	A	
Raw Materials Corp.	A		A							A		A						A	A	
Recyclage d'aluminium Québec												A								
Republic Environmental Systems			A	A	A					A	A	A			A			A	A	
SCC Waste Management																				B
Services Sanitaires de Recyclage Expert						A														
Soudures Classique Kelsey											D									
Stablex Inc.			A	A	A					A	A	A			A			A	A	
Thermonic Inc.			A								A	A								
Tonolli Canada Ltd.	A																			
Universal Dynamics Ltd.																				C

Country of Origin

A - USA B - France C - Cuba D - United Kingdom E - Spain and USA F - Switzerland, Netherlands and USA G - Germany, Finland and Netherlands H - United Arab Emirates, Egypt, Qatar, Saudi Arabia and USA I - United Arab Emirates, Barbados, Egypt, Qatar, Saudi Arabia and USA J - United Arab Emirates, Bahrain, Egypt, Kuwait, Oman, Qatar, Saudi Arabia, USA K - United Arab Emirates, Barbados, Egypt, Japan, Qatar, Saudi Arabia, USA L - United Kingdom and Netherlands M - Switzerland, Germany, Spain, France, United Kingdom, USA

Waste Group

- | | | |
|--------------------------|-----------------------------------|------------------------------|
| 1. Battery Wastes | 8. Gases | 15.Oxidizers |
| 2. Biomedical Wastes | 9. Halogenated Organic Wastes | 16.Paint-Related Wastes |
| 3. Corrosive Liquids | 10.Inorganic Wastes | 17.Pesticide Wastes |
| 4. Corrosive Solids | 11.Leachable Toxic Wastes | 18.Poisonous Liquids |
| 5. Environmental Hazards | 12.Metal and Mineral Wastes | 19.Poisonous Solids |
| 6. Flammable Liquids | 13.Non-Halogenated Organic Wastes | 20.Polychlorinated Biphenyls |
| 7. Flammable Solids | 14.Oils / Fuels | |

Summary of Notice Status and Quantity Notified for Proposed Imports *
(3rd and 4th Quarters 1997)

Number of Duly Completed Notices Received		3 793
Number of Waste Streams Involved		9 171
Total Quantity Notified	(tonnes)	19 607 057
Quantity Consented	(tonnes)	19 605 543
Quantity Objected	(tonnes)	4
Quantity Pending	(tonnes)	1 510

*** NOTE:** In the case of export and import notices, the quantity consented is not the same as the quantity shipped. Exporters and importers routinely overestimate waste quantities on their notices, given that they must project the physical and chemical nature of hazardous wastes that will be shipped over a period of one year. Actual movements are tracked through a manifest database.

<i>Fast Facts</i>	
Most notified Waste Groups, July 1 - December 31, 1997 (more than 10% of the total tonnes notified)	
Export Notifications	Import Notifications
Corrosive Liquids : 29% Flammable Liquids : 24% Other Waste Groups : 47%	Corrosive Solids : 19% Leachable Toxic Wastes : 14% Flammable Liquids : 11% Corrosive Liquids : 11% Other Waste Groups : 45%

<p>SAVE TREES - PLEASE USE <i>RESILOG</i> ONLINE!</p> <p>Subscribers receiving <i>Resilog</i> by mail currently number over 2000, and the number is increasing. We encourage <i>Resilog</i> readers to view issues online at http://www.ec.gc.ca/resilog/resinews.htm</p> <p>In the next issue of <i>Resilog</i> (December 1998), we will be asking subscribers to indicate if they would like to keep receiving <i>Resilog</i> by mail. A timeframe for response will be provided, and after that date paper copies will no longer be sent to those who have not responded.</p>

Summary of Notice Status and Quantity Notified for Proposed Transits
(3rd and 4th Quarters 1997)

Number of Duly Completed Notices Received		98
Number of Waste Streams Involved		290
Total Quantity Notified	(tonnes)	38 259
Quantity Consented	(tonnes)	38 259
Quantity Objected	(tonnes)	0
Quantity Pending	(tonnes)	0

TABLE 3

Notices Received for Proposed Transits of Hazardous Wastes
(3rd and 4th quarters 1997)

		Waste Group																			
Name of the Notifier	Movement	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
A.E.I Pacific Inc.	US to US												X								
Alaska Dept. of Environmental Conservn.	US to US					X											X				
Alaska Pollution Control	US to US																X				
Alaska Ship and Dry Dock	US to US					X	X										X				
Alcan Rolled Products Company	US to US												X								
Anchorage School District	US to US																				X
ARCO Alaska	US to US																				X
Chugach Electric Association	US to US					X															X
DRMO (U.S. Army)	US to US	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Engine & Gear Works Inc.	US to US					X															
Federal Aviation Administration	US to US														X						
Fort Richardson Dept. of Public Works	US to US					X		X													
Halliburton Energy Services	US to US						X							X							
Kenai Pipeline Co.	US to US					X															
Ketchikan Pulp Co.	US to US			X		X	X		X							X					
Matanuska Electric Association	US to US																				X
Municipality of Anchorage Landfill	US to US																				X
North Slope Borough	US to US	X			X																
P & J Industries, Inc.	US to FI												X								
Philip Environmental	US to US																				X
Phillips Petroleum	US to US	X		X	X		X				X	X								X	
R & K Industries	US to US			X			X					X									
Space Mark, Inc.	US to US	X										X	X								
Stepp Brothers	US to US																X				
Tesoro Alaska Petroleum Co.	US to US	X				X											X				
Texaco Refining & Marketing	US to US					X															
U.S. Air Force	US to US																				X
U.S. Army Engineer District, Alaska	US to US	X	X			X	X						X		X						X
U.S. Coast Guard	US to US	X		X		X	X		X	X	X	X		X	X	X	X	X			X
United States Navy, Commanding Officer	US to US					X	X														
Unocal	US to US	X		X			X					X									
Unocal Agricultural Products	US to US					X															

Country of Origin or Destination

US - United States of America FI - Finland

Waste Group

- | | | |
|--------------------------|------------------------------------|-------------------------------|
| 1. Battery Wastes | 8. Gases | 15. Oxidizers |
| 2. Biomedical Wastes | 9. Halogenated Organic Wastes | 16. Paint-Related Wastes |
| 3. Corrosive Liquids | 10. Inorganic Wastes | 17. Pesticide Wastes |
| 4. Corrosive Solids | 11. Leachable Toxic Wastes | 18. Poisonous Liquids |
| 5. Environmental Hazards | 12. Metal and Mineral Wastes | 19. Poisonous Solids |
| 6. Flammable Liquids | 13. Non-Halogenated Organic Wastes | 20. Polychlorinated Biphenyls |
| 7. Flammable Solids | 14. Oils / Fuels | |