



**Investment  
Agriculture  
Foundation**  
*of British Columbia*

# Livestock Waste Tissue Initiative

February 1, 2008

## 2006 Annual Report

*Funding provided by:*



**Investment  
Agriculture  
Foundation**  
*of British Columbia*



**BRITISH  
COLUMBIA**

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## 1. INTRODUCTION

This annual report covers the initiative management, summary of applications, communication activities proposed activities as laid out in the Strategic Plan compared to actual activities, and initiative financial situation for 2006.

Events that impacted the Livestock Waste Tissue Initiative:

- The federal government announced the Canadian Food Inspection Agency (CFIA) Specified Risk Material (SRM) regulations on June 26, 2006. These new regulations come into effect July 12, 2007.

## 2. INITIATIVE MANAGEMENT

The Management Committee membership changed during the year as follows:

- Coreen Moroziuk, a staff person with the Investment Agriculture Foundation of British Columbia retired from the committee and was not replaced.
- Walter Siemens was replaced by Bob McCoubrey as an ex-officio representing the Investment Agriculture Foundation of British Columbia.
- Alan Madrigga representing the Union of British Columbia Municipalities retired from the committee and a replacement is being sought.
- Elise Legendre was replaced by Renee Umezuki as an ex-officio representing Agriculture and Agri-Food Canada.

The full Management Committee (as of the end of 2006) is shown in the table below.

Representing	Person	Voting
British Columbia Agriculture Council – BC Cattlemen’s Association	Bonter, Pete	Yes
British Columbia Agriculture Council – BC Milk Producers Association	Hertgers, Cornelis	Yes
British Columbia Agriculture Council – BC Pork Producers Association	Hoogeveen, Ard	Yes
British Columbia Agriculture Council – BC Poultry Association	Janzen, Derek	Yes
British Columbia Food Processors Association	Fernie, David	Yes
British Columbia Food Processors Association	Windsor, Bonnie	Yes
Ministry of Agriculture and Lands	Glasier, Harvey	Yes
Union of British Columbia Municipalities	(vacant)	Yes
Union of British Columbia Municipalities	Wright, Jared	Yes
West Coast Reduction	Koch, Humphry	Yes
Agriculture and Agri-Food Canada	Umezuki, Renee	No, Ex-officio
Canadian Food Inspection Agency	Roblesky, Ken	No, Ex-officio
Investment Agriculture Foundation of British Columbia	McCoubrey, Bob	No, Ex-officio
Investment Agriculture Foundation of British Columbia	Van Kleeck, Rick: <b>Coordinator</b> , Staff	No, Ex-officio
Ministry of Agriculture and Lands	Nickel, Ken: <b>Chair</b>	No, Ex-officio
Ministry of Environment	Bryden, Jack	No, Ex-officio

The Management Committee met nine times (5 face to face, and 4 conference calls) during 2006:

- January 24, 2006 in Vancouver,
- February 28, 2006 a conference call,
- March 13, 2006 a conference call,
- May 5, 2006 in Vancouver,
- June 28, 2006 in Vancouver,
- July 26, 2006 a conference call,
- September 21, 2006 a conference call,
- November 2, 2006 in Vancouver, and
- December 12, 2006 in Vancouver.

The June 28, 2006 meeting in Vancouver did not have a quorum, however the meeting continued with decisions voted on by members present and e-mail votes taken for members that were absent.

The Management Committee is working very well as a group, with almost all decisions being unanimous.

The Coordinator (seconded from the Ministry of Agriculture and Lands) worked full time for this initiative.

### 3. SUMMARY OF APPLICATIONS

Projects started and completed in previous years not listed.

Project LWTI #	Title/From	LWTI MC / Funding	Contract / Payments	Status
001	An Evaluation of Gasification Technology as an Alternative Disposal Method for Specified Risk Material from Packing and Slaughterhouses in British Columbia. / <b>Thompson Rivers University</b>	<b>Approved</b> Jul. 15, 2005 <ul style="list-style-type: none"> <li>▪ \$60,800 total</li> <li>▪ \$24,800 IAF</li> </ul> <b>Final Report Approved</b> Nov. 2, 2006	<b>Fully Executed</b> Dec. 6, 2005 <ul style="list-style-type: none"> <li>▪ Paid \$18,600.00 Nov. 4, 2005</li> <li>▪ Paid \$6,200.00 Dec. 19, 2006</li> </ul>	<b>Project completed.</b>  IAF Total \$24,800.00
003	An Evaluation of High Temperature Incineration as a Disposal Method for Solid Waste Containing SRM from Packing and Slaughterhouses in BC. / <b>Thompson Rivers University</b>	<b>Approved</b> Aug. 17, 2005 <ul style="list-style-type: none"> <li>▪ \$60,400 total</li> <li>▪ \$24,900 IAF</li> </ul> <b>Final Report Approved</b> Nov. 2, 2006	<b>Fully Executed</b> Dec. 6, 2005 <ul style="list-style-type: none"> <li>▪ Paid \$18,675.00 Nov. 4, 2005</li> <li>▪ Paid \$6,225.00 Dec. 19, 2006</li> </ul>	<b>Project completed.</b>  IAF Total \$24,900.00
005 - a	Proposal to Update the Foreign Animal Disease Emergency Support (FADES) Plan for BC. / <b>LWTI – RFP – Smart Risk Control</b>	<b>Approved</b> Oct. 12, 2005 <ul style="list-style-type: none"> <li>▪ \$59,447.00 total + GST = \$63,608.29</li> <li>▪ \$63,608.29 IAF</li> </ul> <b>Final Report Approved</b> May 5, 2006	<b>Fully Executed</b> Nov. 29, 2005 <ul style="list-style-type: none"> <li>▪ Paid \$24,244.04 Feb. 17, 2006</li> <li>▪ Paid \$39,087.52 May 26 2006</li> </ul>	<b>Project completed.</b>  IAF Total \$63,331.56
005 - b	FADES Planning Phase II – Consultation and Training / <b>LWTI – RFP – Smart Risk Control</b>	<b>Approved</b> May 5, 2006 <ul style="list-style-type: none"> <li>▪ \$64,561.00 total + GST=\$69,080.00</li> <li>▪ \$69,080.00 IAF</li> </ul>	<b>Fully Executed</b> Aug. 17, 2006 <ul style="list-style-type: none"> <li>▪ Paid \$40,010.83 Dec.19, 2006</li> </ul>	Project underway.
006	Economic Feasibility Study of Separating Existing Operation of Beef Slaughter and Pork Slaughter. / <b>Johnston Packers (1995) Ltd.</b>	<b>Approved</b> Dec. 1, 2005 <ul style="list-style-type: none"> <li>▪ \$33,400 total</li> <li>▪ \$20,000 IAF</li> </ul>	<b>Fully Executed</b> Feb. 10, 2006	<b>Project canceled</b> by applicant Apr. 25, 2006.  IAF Total \$0.00

Project LWTI #	Title/From	LWTI MC / Funding	Contract / Payments	Status
007	Assessment of Economic Feasibility of Gasification System for Disposal of Carcass Waste Material at Blue Mountain Packers. / <b>Blue Mountain Packers</b>	<b>Approved</b> Dec. 1, 2005 <ul style="list-style-type: none"> <li>\$71,688 total</li> <li>\$57,350 IAF</li> </ul> Project half completed. Progress report received.	<b>Fully Executed</b> Jan. 6, 2006 <ul style="list-style-type: none"> <li>Paid \$30,000.00 Jan. 27, 2006</li> </ul>	<b>Project canceled</b> by applicant Apr. 8, 2006.  IAF Total \$30,000
009	<b>Program:</b> Situation Analysis and Solution Identification Program. / <b>LWTI</b>	<b>Approved</b> Dec. 13, 2005 <ul style="list-style-type: none"> <li>100% IAF to \$2,000 maximum</li> </ul>	Contracts with each separate applicant	
▪ 009-a	<b>Kawano Farms Ltd</b> – Sylvis Environmental	<b>Approved</b> Feb. 7, 2006 <ul style="list-style-type: none"> <li>\$2,000 total</li> <li>\$2,000 IAF</li> </ul> <b>Final Report Approved</b> Jun. 1, 2006	<b>Fully Executed</b> Apr. 24, 2006 <ul style="list-style-type: none"> <li>Paid \$2,000.00 Jun. 23, 2006</li> </ul>	<b>Project completed.</b>  IAF Total \$2,000.00
▪ 009-b	<b>Rainer Custom Cutting</b> – Sylvis Environmental	<b>Approved</b> Feb. 7, 2006 <ul style="list-style-type: none"> <li>\$2,000 total</li> <li>\$2,000 IAF</li> </ul> <b>Final Report Approved</b> Jun. 1, 2006	<b>Fully Executed</b> Apr. 24, 2006 <ul style="list-style-type: none"> <li>Paid \$2,000.00 Jun. 23, 2006</li> </ul>	<b>Project completed.</b>  IAF Total \$2,000.00
▪ 009-c	<b>Rodear Meats Ltd</b> – Sylvis Environmental	<b>Approved</b> Feb. 7, 2006 <ul style="list-style-type: none"> <li>\$2,000 total</li> <li>\$2,000 IAF</li> </ul> <b>Final Report Approved</b> Aug. 2, 2006	<b>Fully Executed</b> Apr. 24, 2006 <ul style="list-style-type: none"> <li>Paid \$2,000.00 Aug. 3, 2006</li> </ul>	<b>Project completed.</b>  IAF Total \$2,000.00
▪ 009-d	<b>Spokin Lake Meats</b> – Sylvis Environmental	<b>Approved</b> Feb. 28, 2006 <ul style="list-style-type: none"> <li>\$2,000 total</li> <li>\$2,000 IAF</li> </ul> <b>Final Report Approved</b> Jul. 27, 2006	<b>Fully Executed</b> Apr. 24, 2006 <ul style="list-style-type: none"> <li>Paid \$1,926.00 Jul. 27, 2006</li> </ul>	<b>Project completed.</b>  IAF Total \$1,926.00
▪ 009-e	<b>The Country Locker</b>	<b>Approved</b> Feb. 28, 2006 <ul style="list-style-type: none"> <li>\$2,000 total</li> <li>\$2,000 IAF</li> </ul>		Project has not started.
▪ 009-f	<b>Medallion Meats</b> – Sylvis Environmental	<b>Approved</b> Feb. 28, 2006 <ul style="list-style-type: none"> <li>\$2,000 total</li> <li>\$2,000 IAF</li> </ul> <b>Final Report Approved</b> Aug. 2, 2006	<b>Fully Executed</b> Apr. 24, 2006 <ul style="list-style-type: none"> <li>Paid \$2,000.00 Aug. 3, 2006</li> </ul>	<b>Project completed.</b>  IAF Total \$2,000.00
010	<b>Program:</b> Assistance in Applying for a Ministry of Environment Permit Program. / <b>LWTI</b>	<b>Approved</b> Dec. 13, 2005 <ul style="list-style-type: none"> <li>75% IAF to \$15,000 maximum</li> </ul>	Contracts with each separate applicant. Requires site visit from LWTI Coordinator.	
▪ 010-a	<b>Kawano Farms Ltd</b>	<b>Deferred</b> Feb. 7, 2006 (Send to full LWTI committee) <b>Rejected</b> Feb. 28, 2006		
▪ 010-b	<b>Kawano Farms Ltd</b>	<b>Site Visit</b> Jul. 13, 2006: <b>Deferred</b> Nov. 2, 2006		
▪ 010-c	<b>Rainer Custom Cutting</b> – Golder Associates	<b>Site Visit</b> Jul. 17, 2006: <b>Approved</b> Aug. 1, 2006 <ul style="list-style-type: none"> <li>\$25,000 total</li> <li>\$15,000 IAF</li> </ul>	<b>Fully Executed</b> Sep. 27, 2006	Project underway.

Project LWTI #	Title/From	LWTI MC / Funding	Contract / Payments	Status
011	Anaerobic Digestion as a Cost-effective and Environmentally Safe Option for the Disposal of Livestock Waste Tissue. / <b>New Energy Eco-Systems Ltd. &amp; Cedarwal Power Inc.</b>	<b>Approved</b> Feb. 28, 2006 <ul style="list-style-type: none"> <li>▪ \$77,803 total</li> <li>▪ \$25,000 IAF</li> </ul>	<b>Fully Executed</b> May 4, 2006 <ul style="list-style-type: none"> <li>▪ Paid \$15,000 May 26, 2006</li> </ul>	Project underway.
012	Separation of Pet food material from inedible products. / <b>Blue Mountain Packers</b>	<b>Deferred</b> Feb. 28, 2006 (Awaiting info on status of company.) <b>Approved</b> Mar. 13, 2006 <ul style="list-style-type: none"> <li>▪ \$33,000 total</li> <li>▪ \$10,000 IAF</li> </ul>	<b>Fully Executed</b> May 1, 2006	<b>Project withdrawn</b> by applicant Jul. 14, 2006. IAF Total \$0.00
013	Situation Analysis and Solution Identification. / <b>Nicola Valley Meats Inc.</b> – Sylvis Environmental	<b>Approved</b> Feb. 28, 2006 <ul style="list-style-type: none"> <li>▪ \$2,000 total</li> <li>▪ \$2,000 IAF</li> </ul> <b>Final Report Approved</b> Nov. 2, 2006	<b>Fully Executed</b> Apr. 24, 2006 <ul style="list-style-type: none"> <li>▪ Paid \$2,000.00 Dec. 8, 2006</li> </ul>	<b>Project completed.</b> IAF Total \$2,000.00
014	Situation Analysis and Solution Identification. / <b>Tarzwell Farms</b>	<b>Approved</b> Feb. 28, 2006 <ul style="list-style-type: none"> <li>▪ \$2,000 total</li> <li>▪ \$2,000 IAF</li> </ul>	<b>Fully Executed</b> Apr. 27, 2006	Project underway.
015	Incineration Emission Survey and Operational Report. / <b>LWTI – A. Lanfranco and Associates Inc.</b>	<b>Approved</b> Jan. 24, 2006 <ul style="list-style-type: none"> <li>▪ \$9,940.00 total</li> <li>▪ \$1,984.85 IAF</li> </ul>	<b>Fully Executed</b> Apr. 24, 2006 <ul style="list-style-type: none"> <li>▪ Paid \$1,984.85 Apr. 21, 2006</li> </ul>	<b>Project terminated</b> Nov. 5, 2006. IAF Total \$1,984.85
016	Assessment of the Economic Feasibility for the Construction of Either a Centralized Rendering Facility or Two Regional Rendering Facilities for the Disposal of Non-Specified Risk Material (SRM) Beef Carcass Waste. / <b>BCFPA</b>			Project being developed.
017	Slaughter Waste Composting Demonstration Project, Seminar and Field Day. / <b>Sylvis Environmental</b>	<b>Approved</b> May 5, 2006 <ul style="list-style-type: none"> <li>▪ \$17,119 total</li> <li>▪ \$17,119 IAF</li> </ul>	<b>Fully Executed</b> Jul. 4, 2006	<b>Project completed.</b> Awaiting final report approval.
018	Development and Testing of a Template for Local Governments Use When Planning for Emergency Mass Carcass Disposal / <b>LWTI – RFP – Bremner Consulting Services</b>	<b>Approved</b> May 5, 2006 <ul style="list-style-type: none"> <li>▪ \$59,407 total</li> <li>▪ \$59,407 IAF</li> </ul>	<b>Fully Executed</b> Jun. 6, 2006 <ul style="list-style-type: none"> <li>▪ Paid \$9,309.71 Sept. 29, 2006</li> <li>▪ Paid \$18,140.39 Oct. 19, 2006</li> <li>▪ Paid \$23,124.73 Dec. 19, 2006</li> </ul>	Project underway.
019	Slaughterhouse Waste Disposal Options – North Okanagan/Thompson / <b>North Okanagan/Thompson Waste Tissue Disposal Project Steering Committee</b> – RFP – Sylvis Environmental	<b>Approved</b> Jul. 11, 2006 (e-mail vote) <ul style="list-style-type: none"> <li>▪ \$34,705 total</li> <li>▪ \$34,705 IAF</li> </ul>	<b>Fully Executed</b> Sep. 21, 2006 <ul style="list-style-type: none"> <li>▪ Aug. 31, 2006 paid \$26,029.00</li> </ul>	Project underway.
020	Fish Industry Emergency Mortality Disposal / <b>LWTI – RFP – Golder Associates Ltd.</b>	<b>Approved</b> Dec. 12, 2006. <ul style="list-style-type: none"> <li>▪ \$42,397 total</li> <li>▪ \$42,397 IAF</li> </ul>		Project just started.

Project LWTI #	Title/From	LWTI MC / Funding	Contract / Payments	Status
021	Landfill Requirements for Poultry Processing and Slaughter Waste / LWTI – RFP – Sperling Hansen Associates, and Sylvis Environmental	<b>Approved</b> Jul. 26, 2006 <ul style="list-style-type: none"> <li>▪ \$23,441 total</li> <li>▪ \$23,441 IAF</li> </ul>	<b>Fully Executed</b> Aug. 28, 2006 <ul style="list-style-type: none"> <li>▪ Paid \$7,137.89 Oct. 19, 2006</li> <li>▪ Paid \$1,870.09 Nov. 17, 2006</li> <li>▪ Paid \$8,773.75 Dec. 8, 2006</li> <li>▪ Paid \$2,255.41 Dec. 21, 2006</li> </ul>	Project underway.
022	Air Emission Requirements for Poultry Processing and Slaughter Waste / LWTI – RFP – Levelton Engineering Solutions	<b>Approved</b> Sep. 21, 2006 <ul style="list-style-type: none"> <li>▪ \$31,471.40 total</li> <li>▪ \$31,471.40 IAF</li> </ul>	<b>Fully Executed</b> Nov. 9, 2006	Project underway.
023	Emergency Disposal Options for Large Animal Carcasses Generated in the Fraser Valley / LWTI – RFP – Agri Business Consortium	<u>Approval in principle</u> Sep. 21, 2006		Project being developed.
024	Risk Assessment of BC Naturally Contained Landfills / LWTI – DNV Consulting	<b>Approved</b> Nov. 2, 2006 <ul style="list-style-type: none"> <li>▪ \$45,000.00 total</li> <li>▪ \$45,000.00 IAF</li> </ul>		Project just started.

#### 4. COMMUNICATION ACTIVITIES

##### Ministry of Environment Presentation

The Coordinator made a presentation about the challenges the British Columbia slaughter industry are facing at a Ministry of Environment training workshop in Victoria on February 15, 2006. About 30 staff attended.

##### Pacific Agriculture Show

The Coordinator attend the Pacific Agriculture Show on February 16, 2006 at the Investment Agriculture Foundation booth to inform show attendees about the Livestock Waste Tissue Initiative (LWTI) activities, explain the slaughter industry regulatory requirements and raise awareness of emergency planning needs for mass carcass disposal.

##### Composting Field Day and Agency Meeting

As part of LWTI 017 “Slaughter Waste Composting Demonstration Project, Seminar and Field Day” a slaughter waste tissue composting field day was held in Merritt on June 26, 2006. The morning consisted of presentations regarding: CFIA composting regulations, Ministry of Environment – Organic Matter Recycling Regulation, composting methods, composting slaughter wastes – the New York State experience, and economics of composting slaughter wastes. The afternoon field day was held at a local ranch viewing a demonstration compost pile, and learning how to build a slaughter waste static pile compost windrow. This event attracted about 60 people.

On June 27, 2006 a seminar was held for agencies and consultants to learn more about current research on prions and composting, composting slaughter wastes – regulatory environment – U.S. and New York State, and permitting slaughter waste composting projects in British Columbia. Twenty four people attend this seminar.

### **Slaughter Industry Meeting**

On September 23, 2006 a meeting at the Vancouver Airport Fairmont was held with existing and people thinking of starting a slaughter facility and Meat Industry Enhancement Strategy (MEIS) advisors. The purpose of the meeting was to update people on: CFIA Health – Animals Act and Health of Animals Regulations, British Columbia Center for Disease Control – Meat Inspection Regulations, Ministry of Environment Environmental – Management Act and Waste Discharge Regulations, and financial assistance programs offered by MEIS and LWTI.

### **LWTI Summary Reports**

The Coordinator produced LWTI summary reports for the LWTI Management Committee, Investment Agriculture Foundation (IAF) and funding partners. These reports distributed February 12, September 21 and November 30, 2006 provide up-date information on applications (reviewed and approved), funds committed, significant current activities, and top four activities to be completed in the next quarter year.

### **Web Page**

The LWTI web pages were up-dated several times during the year. Information added included:

- Projects approved by the LWTI Management Committee.
- For projects that were completed links to final reports.
- Presentations from the slaughter waste composting: seminar and field day held June 26, 2006.
- Presentations from the slaughter waste composting: state of research, regulations and permitting held June 27, 2006.
- Presentations from the slaughter plant industry meeting held September 23, 2006.

## 5. PROGRESS TOWARDS STRATEGIC PLAN GOALS

Proposed Activities	Actual Activities	Comments
<p><b>Action Item 1.1.1.</b> Clarify the conditions that will have to be met for slaughter plants to stay in operations.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>Coordinator attending federal/provincial/territorial meetings and by having CFIA present information at the agency up-date meeting held October 12, 2005.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>CFIA announced SRM regulations in June, coming into effect July 12, 2007.</li> <li>CFIA explained regulations at slaughter industry meeting held September 23, 2006.</li> <li>Project LWTI 024 risk assessment of BC naturally contained landfills started.</li> </ul>	<p><b>2006</b></p> <p>Coordinator explained CFIA regulations and policies as understood to all stakeholders (slaughter plant operators, meat industry, local governments and provincial government staff) when ever there was an opportunity to pass the information on.</p>
<p><b>Action Item 1.1.2.</b> Determine which slaughter plants existing disposal methods will not be able to meet the CFIA conditions.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>Slaughter facilities were not evaluated.</li> <li>Slaughter plant operators were invited to attend one of eight regional meeting where existing Ministry of Environment and proposed CFIA requirements were explained. 56 people representing 30 slaughter plants attended the meetings.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>Coordinator kept in contact with slaughter plant operators regarding CFIA regulations causing the facilities to be shut down.</li> </ul>	
<p><b>Action Item 1.1.3.</b> Develop a contingency plan for each plant requiring one (identified in Action Item 1.1.2.). The contingency plan to identify steps and timing to be taken to minimize or eliminate the need for a plant closure.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>A program was started to address the need for individual planning LWT009 "Situation Analysis and Solution Identification Program".</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>Nine slaughter plants were evaluated for waste disposal options through LWTI 009.</li> </ul>	
<p><b>Action Item 1.1.4.</b> The Management Committee delivers a project best suited to meet the need of the slaughter plants that need temporary help.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>No requests for temporary assistance were received.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>No requests for temporary assistance were received.</li> </ul>	<p><b>2006</b></p> <p>Present slaughter plants facing high waste disposal costs have not committed to implementing a long term solution (a prerequisite for funding assistance).</p>
<p><b>Action Item 2.1.1.</b> A clear under-standing of the discharge requirements that need to be met for a technology to be used in BC. At the present time there is an interest in incineration and gasification; future interest may include composting and others.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>Informal discussions were held with CFIA and Ministry of Environment staff regarding discharge requirements and the process to obtain approval. However, no formal process was established for establishing acceptable discharge criteria for the different disposal methods being considered.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>Projects LWTI 021 landfill requirements, LWTI 022 air emission requirements and LWTI 024 landfill risk assessment initiated by LWTI.</li> </ul>	

Proposed Activities	Actual Activities	Comments
<p><b>Action Item 2.1.2.</b> To conduct feasibility studies on potential technologies to improve the knowledge base about: conditions required to make the process technologically and economically viable, inputs and outputs products, permitting requirements and timelines for adoption.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• Four feasibility projects were approved: LWTI 001, LWT 003, LWT006, and LWT007.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• New projects approved: LWTI 015, LWTI 019.</li> </ul>	
<p><b>Action Item 2.1.3.</b> To demonstrate and/or test potentially feasible technologies through pilot projects to improve the knowledge of the technologies ability to treat tissue wastes in an affordable manner while complying with legislation.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• No activity.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• New project approved: LWTI 017.</li> </ul>	
<p><b>Action Item 2.2.1.</b> Provide technical assistance to slaughter plant operators for on-site and to communities for off-site waste containment or destruction systems</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• A program was started to provide technical assistance when evaluating disposal options, LWT009 "Situation Analysis and Solution Identification Program".</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• Nine slaughter plants were evaluated for waste disposal options through LWTI 009.</li> <li>• New projects approved: LWTI 013 and LWTI 014.</li> <li>• Slaughter industry meeting held September 23 to explain agency regulations and permitting process.</li> <li>• Web page contains links to regulations.</li> <li>• Coordinator provided technical advice to individual slaughter plant operators.</li> </ul>	
<p><b>Action Item 2.2.2.</b> Provide financial assist to slaughter plant operators who are install infrastructure to manage SRM separately from other wastes.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• No activity.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• No activity.</li> </ul>	<p><b>2006</b> Slaughter plant operators have not decided on how they are going to handle their wastes. Hence no requests for funding.</p>
<p><b>Action Item 2.2.3.</b> Provide financial assist to slaughter plant operators who are install infrastructure to manage waste containment or destruction systems.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• No activity.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• No activity.</li> </ul>	<p><b>2006</b> Slaughter plant operators have not decided on how they are going to handle their wastes. Hence no requests for funding.</p>
<p><b>Action Item 2.2.4.</b> To provide technical assistance to slaughter plant operators and regulator agencies to expedite where possible the permit approval process. This assistance will be required for some of the feasibility projects, most of the pilot projects, and likely all of the slaughter plant on-site disposal projects.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• A program was started to provide financial support for slaughter plants in obtaining waste disposal permits, LWT010 "Assistance in Applying for a Ministry of Environment Permit Program."</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• Ministry of Environment workshop February 15 to explain challenges slaughter industry facing.</li> <li>• One slaughter plant assisted through LWTI 010.</li> </ul>	

<b>Proposed Activities</b>	<b>Actual Activities</b>	<b>Comments</b>
<p><b>Action Item 2.3.1.</b> To conduct an education program with local governments and other stakeholders to improve their understanding of livestock waste tissue management practically regarding economic development associated with the meat industry (production, processing, disposal, etc.), health issues and disposal of livestock carcasses in response to an emergency.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>Local government emergency planners and waste managers and other interested stakeholders were invited to attend one of eight regional meeting where existing Ministry of Environment and proposed CFIA requirements were explained. <ul style="list-style-type: none"> <li>22 local government staff attended the meetings.</li> <li>27 agency staff attended the meetings.</li> <li>24 other interested stakeholders attended the meetings.</li> </ul> </li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>No specific activities.</li> </ul>	<p><b>2006</b> Coordinator explained regulations and issues around SRM management (from both slaughter plants and emergency events) to all stake holders (slaughter plant operators, meat industry, local governments and provincial government staff) when ever there was an opportunity to pass the information on.</p>
<p><b>Action Item 3.1.1.</b> Inventory of existing SRM management practices used and considered for use in BC.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>Through phone interviews and confirmation at the eight community meetings a date base of slaughter plants was developed. Information on existing disposal practices was tabulated.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>Through discussions with individual slaughter plant operators the coordinator was aware of all SRM management practices being considered by the industry.</li> </ul>	
<p><b>Action Item 3.1.2.</b> Identify existing applicable risk assessments and conduct an information gap analysis.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>This action item was not completed by the LWTI because CFIA completed risk assessments for all disposal methods of interest to BC.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>The coordinator performed the gap analysis and identified the need for a risk assessment for BC naturally contained landfills typically used in BC.</li> </ul>	
<p><b>Action Item 3.1.3.</b> Conduct risk assessments for the identified information gaps.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>No activity in this area.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>Project LWTI 024 was initiated by LWTI in response to the identified need.</li> </ul>	
<p><b>Action Item 3.1.4.</b> Produce a document summarizing the absolute and relative risks associated with SRM management methods.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>No activity in this area.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>No activity.</li> </ul>	<p><b>2006</b> At the present time it not felt that a summary document is needed.</p>
<p><b>Action Item 4.1.1.</b> Scan other jurisdictions for technology options or alternative uses for tissue wastes and report on findings</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>Not started.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>Coordinator attend CFIA SRM workshop in Alberta September 27.</li> </ul>	
<p><b>Action Item 4.1.2.</b> Research promising technologies and alternative uses for tissue wastes that if proven successful may be adopted by BC tissue waste generators or service providers.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>Not started.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>No applications for projects.</li> </ul>	<p><b>2006</b> Coordinator efforts were to demonstrate technologies that are well proven. No technologies of interest for use in BC are at the research stage.</p>

<b>Proposed Activities</b>	<b>Actual Activities</b>	<b>Comments</b>
<p><b>Action Item 5.1.1.</b>            UBCM to administer a program for Regional Districts in conjunction with Local Governments and local stakeholders to develop Emergency Plans for mass livestock carcass disposal for their communities.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• Much work has occurred in developing this project with UBCM; however, no project has started at this time. This project will likely be broken into two or three smaller projects and start in 2006.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• Coordinator working closely with UBCM to start and oversee project LWTI 018 to develop a template for local governments to use.</li> </ul>	
<p><b>Action Item 5.1.2.</b>            Provide grants of up to \$250,000 to assist Regional and Local governments to implement disposal solutions identified in their Emergency Planning for Mass Livestock Carcass Disposal.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• Not started.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• Not started.</li> </ul>	<p><b>2006</b>            Local governments can not apply for funding under this action item until they have completed their emergency plan funded through action item 5.1.1.</p>
<p><b>As part of Strategy 5.1</b>            In 2006 the province instructed LWTI to also consider emergency planning for farmed salmon mass carcass disposal.</p>	<p><b>2006</b></p> <ul style="list-style-type: none"> <li>• Project LWTI 020 started.</li> </ul>	
<p><b>Action Item 5.2.1.</b>            Develop a new Foreign Animal Disease Emergency Support Plan to reflect what was learned through BSE and AI outbreaks.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• This project has started under LWT005 "Proposal to Update the Foreign Animal Disease Emergency Support (FADES) Plan for BC." With the consultant hired through an RFP process being Smart Risk Control.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• Phase I (LWTI 005a) completed and phase II (LWTI 005b) of FADES started.</li> </ul>	
<p><b>Action Item 5.2.2.</b>            Identify the gaps in disposal capacity throughout the province based on the results of the planning done in 5.1.1. and improvement made through 5.1.2.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• Not started.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• Not started.</li> </ul>	<p><b>2006</b>            This action item can not start until local governments have completed their emergency plan funded through action item 5.1.1.</p>
<p><b>Action Item 5.2.3.</b>            Determine the need for and possible locations of new carcass disposal options and suggest what those options are.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• Not started.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• Coordinator attended USDA workshop on mass carcass disposal planning and options.</li> </ul>	
<p><b>Action Item 5.2.4.</b>            Conduct preliminary design of options identified in 5.2.3. Starting with the areas with the largest shortfall in capacity.</p>	<p><b>2005</b></p> <ul style="list-style-type: none"> <li>• Not started.</li> </ul> <p><b>2006</b></p> <ul style="list-style-type: none"> <li>• Not started.</li> </ul>	<p><b>2006</b>            This action item can not start until action item action item 5.2.2. and 5.2.3. are well under way or completed.</p>