



**Investment
Agriculture
Foundation**
of British Columbia

Livestock Waste Tissue Initiative

February 1, 2008

2007 Annual Report

Funding provided by:

Canada 



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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 2007.

Events that impacted the Livestock Waste Tissue Initiative:

- The federal and provincial government announcement of the SRM Management Program on April 13, 2007. This \$7.5 million program is to assist the British Columbia slaughter industry meet the new Canadian Food Inspection Agency (CFIA) Specified Risk Material (SRM) regulations. The BC SRM Management Program has similar targeted applicants and desired outcomes as the LWTI goals 1, 2 and 4.
- The Canadian Food Inspection Agency (CFIA) Specified Risk Material (SRM) regulations came into effect July 12, 2007.

2. INITIATIVE MANAGEMENT

The Management Committee membership changed during the year as follows:

- Ard Hoogeveen representing the British Columbia Agriculture Council – BC Pork Producers retired from the committee and was not replaced.
- Don Beer filled the vacant Union of British Columbia Municipalities position as a voting member.
- Pete Bonter was replaced by Roland Baumann as a voting member representing the British Columbia Agriculture Council – BC Cattlemen Association.
- Renee Umezuki was replaced by Marg Bancroft as an ex-officio representing Agriculture and Agri-Food Canada.
- Jack Bryden was replaced by Barb John as an ex-officio representing British Columbia Ministry of Environment.
- Bob McCoubrey was replaced by Garnet Berge as an ex-officio representing the Investment Agriculture Foundation of British Columbia.
- Ken Corraini was appointed as an ex-officio representing the British Columbia Ministry of Agriculture and Lands.

The full Management Committee (as of the end of 2007) is shown in the table below.

The Management Committee met five times (3 face to face, and 2 conference calls) during 2007:

January 26, 2007 in Vancouver,
March 9, 2007 in Vancouver,
March 22, 2007 a conference call,
July 27, 2007 a conference call, and
November 7, 2007 in Vancouver.

A conference call was scheduled for April 2, 2007; however, there was not a quorum. The conference call continued to allow the province to obtain feed-back on the proposed BC SRM Management Program.

The Management Committee continues to work 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 until the end of March. The Coordinator became an Investment Agriculture Foundation employee starting in April 2007, and continued to work full time for this initiative.

Representing	Person	Voting
British Columbia Agriculture Council – BC Cattlemen’s Association	Baumann, Roland	Yes
British Columbia Agriculture Council – BC Milk Producers Association	Hertgers, Cornelis	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	Beer, Don	Yes
Union of British Columbia Municipalities	Wright, Jared	Yes
West Coast Reduction	Koch, Humphry	Yes
Agriculture and Agri-Food Canada	Bancroft, Marg	No, Ex-officio
Canadian Food Inspection Agency	Roblesky, Ken	No, Ex-officio
Investment Agriculture Foundation of British Columbia	Berge, Garnet	No, Ex-officio
Investment Agriculture Foundation of British Columbia	Van Kleeck, Rick: Coordinator , Staff	No, Ex-officio
Ministry of Agriculture and Lands	Corraini, Ken	No, Ex-officio
Ministry of Agriculture and Lands	Nickel, Ken: Chair	No, Ex-officio
Ministry of Environment	John, Barb	No, Ex-officio

3. SUMMARY OF APPLICATIONS

Projects started and completed in previous years not listed.

Project LWTI #	Title/From	LWTI MC / Funding	Contract / Payments	Status
005 - b	FADES Planning Phase II – Consultation and Training / LWTI – RFP – Smart Risk Control	Approved May 5, 2006 ▪ \$64,561.00 total + GST = \$69,080.00 ▪ \$69,080.00 IAF Final Report Approved Apr. 24, 2007	Fully Executed Aug. 17, 2006 ▪ Paid \$40,010.83 Dec.19, 2006 ▪ Paid \$28,315.90 May 8, 2007	Project completed. IAF Total \$68,326.73
009	Program: Situation Analysis and Solution Identification Program. / LWTI	Approved Dec. 13, 2005 ▪ 100% IAF to \$2,000 maximum	Contracts with each separate applicant.	
▪ 009-e	The Country Locker	Approved Feb. 28, 2006 ▪ \$2,000 total ▪ \$2,000 IAF		Project canceled by applicant Oct. 30, 2007. IAF Total \$0.00
010	Program: Assistance in Applying for a Ministry of Environment Permit Program. / LWTI	Approved Dec. 13, 2005 ▪ 75% IAF to \$15,000 maximum	Contracts with each separate applicant. Requires site visit from LWTI Coordinator.	

Project LWTI #	Title/From	LWTI MC / Funding	Contract / Payments	Status
010-c	Rainer Custom Cutting – Golder Associates	Site Visit Jul. 17, 2006: Approved Aug. 1, 2006 <ul style="list-style-type: none"> ▪ \$25,000 total ▪ \$15,000 IAF Project Completion Approved May 8 2007	Fully Executed Sep. 27, 2006 <ul style="list-style-type: none"> ▪ Paid \$3,970.35 May 22, 2007 	Project completed. IAF Total \$3,970.35
011	Anaerobic Digestion as a Cost-effective and Environmentally Safe Option for the Disposal of Livestock Waste Tissue. / New Energy Eco-Systems Ltd. & Cedarwal Power Inc.	Approved Feb. 28, 2006 <ul style="list-style-type: none"> ▪ \$77,803 total ▪ \$25,000 IAF 	Fully Executed May 4, 2006 <ul style="list-style-type: none"> ▪ Paid \$15,000 May 26, 2006 	Project Incomplete and late.
014	Situation Analysis and Solution Identification. / Tarzwil Farms	Approved Feb. 28, 2006 <ul style="list-style-type: none"> ▪ \$2,000 total ▪ \$2,000 IAF 	Fully Executed Apr. 27, 2006	Project almost completed. Status late.
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. / BCFPA			Project terminated by applicant Apr. 12, 2007. IAF Total \$0.00
017	Slaughter Waste Composting Demonstration Project, Seminar and Field Day. / Sylvis Environmental	Approved May 5, 2006 <ul style="list-style-type: none"> ▪ \$17,119 total ▪ \$17,119 IAF Final Report Approved Jan. 26, 2007	Fully Executed Jul. 4, 2006 <ul style="list-style-type: none"> ▪ Paid \$17,119.00 Apr. 4, 2007 	Project completed. IAF Total \$17,119.00
018	Development and Testing of a Template for Local Governments Use When Planning for Emergency Mass Carcass Disposal / LWTI – RFP – Bremner Consulting Services	Approved May 5, 2006 <ul style="list-style-type: none"> ▪ \$59,407 total ▪ \$59,407 IAF Final Report Approved Mar. 9, 2007	Fully Executed Jun. 6, 2006 <ul style="list-style-type: none"> ▪ Paid \$9,309.71 Sep. 29, 2006 ▪ Paid \$18,140.39 Oct. 19, 2006 ▪ Paid \$23,124.73 Dec. 19, 2006 ▪ Paid \$7,881.20 Apr. 26, 2007 	Project completed. IAF Total \$58,456.03
019	Slaughterhouse Waste Disposal Options – North Okanagan/Thompson / North Okanagan/Thompson Waste Tissue Disposal Project Steering Committee – RFP – Sylvis Environmental	Approved Jul. 11, 2006 (e-mail vote) <ul style="list-style-type: none"> ▪ \$34,705 total ▪ \$34,705 IAF Final Report Approved Mar. 9, 2007	Fully Executed Sep. 21, 2006 <ul style="list-style-type: none"> ▪ Paid \$26,029.00 Aug. 31, 2006 ▪ Paid \$8,674.78 Apr. 26, 2007 	Project completed. IAF Total \$34,703.78
020	Fish Industry Emergency Mortality Disposal / LWTI – RFP – Golder Associates Ltd.	Approved Dec. 12, 2006. <ul style="list-style-type: none"> ▪ \$42,397 total ▪ \$42,397 IAF 	Fully Executed Feb. 27, 2007 <ul style="list-style-type: none"> ▪ Paid \$2,926.05 Apr. 4, 2007 ▪ Paid \$8,750.41 Apr. 4, 2007 ▪ Paid \$17,997.02 Apr. 24, 2007 ▪ Paid \$12,723.35 Jun. 11, 2007 	Project almost completed. Status late.

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	Approved Jul. 26, 2006 <ul style="list-style-type: none"> ▪ \$23,441 total ▪ \$23,441 IAF Final Report Approved Apr. 24, 2007	Fully Executed Aug. 28, 2006 <ul style="list-style-type: none"> ▪ Paid \$7,137.89 Oct. 19, 2006 ▪ Paid \$1,870.09 Nov. 17, 2006 ▪ Paid \$8,773.75 Dec. 8, 2006 ▪ Paid \$2,255.41 Dec. 21, 2006 ▪ Paid \$689.70 Apr. 4, 2007 ▪ Paid \$2,672.94 May 8, 2007 	Project completed. IAF Total \$23,399.78
022	Air Emission Requirements for Poultry Processing and Slaughter Waste / LWTI – RFP – Levelton Engineering Solutions	Approved Sep. 21, 2006 <ul style="list-style-type: none"> ▪ \$31,471.40 total ▪ \$31,471.40 IAF Final Report Approved Apr. 24, 2007	Fully Executed Nov. 9, 2006 <ul style="list-style-type: none"> ▪ Paid \$17,140.20 Jan. 15, 2007 ▪ Paid \$6,899.49 Jan. 30, 2007 ▪ Paid \$7,431.66 May 8, 2007 	Project completed. IAF Total \$31,471.35
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 Approved July 17, 2007 (e-mail vote) <ul style="list-style-type: none"> ▪ \$46,994.58 total ▪ \$46,994.58 IAF 	Fully Executed Aug. 1, 2007 <ul style="list-style-type: none"> ▪ Paid \$28,196.00 & \$10,176.00 Oct 18, 2007 	Project nearing completion. Draft Final Report presentation Nov. 15, 2007.
024	Risk Assessment of BC Naturally Contained Landfills / LWTI – DNV Consulting	Approved Nov. 2, 2006 <ul style="list-style-type: none"> ▪ \$45,000.00 total ▪ \$45,000.00 IAF 	Fully Executed Feb. 27, 2007 <ul style="list-style-type: none"> ▪ Paid 20,000 GBP or \$41,895.95 Nov 30, 2007 	Project completed. IAF Total \$41,895.95
025	Site Investigation for a SRM Incineration System at Medallion Meats / Medallion Meats Corp.	Approved Mar. 22, 2007 <ul style="list-style-type: none"> ▪ \$25,000.00 total ▪ 75% of costs up to \$15,000.00 IAF 	Fully Executed Apr. 10, 2007	Project has not started yet.
026	Review of Incineration Options for Specified-Risk-Material / Golder Associates Innovative Applications Inc.	Approved Mar. 22, 2007 <ul style="list-style-type: none"> ▪ \$6,148.00 total ▪ \$6,148.00 IAF 	Fully Executed Jun. 18, 2007	Project nearing completion. Draft final report received.
027	Assessment of a TNRD and Surrounding Area In-Vessel Composting Facility / Sylvis Environmental	Approved Mar. 22, 2007 <ul style="list-style-type: none"> ▪ \$39,750.00 total ▪ \$39,750.00 IAF 	Fully Executed May 15, 2007 <ul style="list-style-type: none"> ▪ Paid \$11,533.40 Jul. 30, 2007 	Project nearing completion.
028	In-Vessel Slaughter Waste Compost Pilot Project / Riverside Natural Meats	Approved Jul. 27, 2007 <ul style="list-style-type: none"> ▪ \$11,000.00 total ▪ \$11,000.00 IAF 		Project terminated. Funded by BC SRM Program.
029	UBCM Farmed Animal Mass Carcass Disposal Emergency Planning Program / Union of British Columbia Municipalities	Approved Jul. 27, 2007 <ul style="list-style-type: none"> ▪ \$705,000.00 total ▪ \$705,000.00 IAF 	<ul style="list-style-type: none"> ▪ Paid \$352,500.00 Oct. 5, 2007 	

Project LWTI #	Title/From	LWTI MC / Funding	Contract / Payments	Status
030	FADES Planning Phase III & Exercises / Smart Risk Control	Approved Nov. 7, 2007 <ul style="list-style-type: none"> ▪ \$34,216 total ▪ \$34,216 IAF 	Agreements to be signed.	Project just started.
031	Slaughter Waste Compost Land Application / Sylvis Environmental	Approved Nov. 26, 2007 (e-mail vote) <ul style="list-style-type: none"> ▪ \$1,400.00 total ▪ \$1,400.00 IAF 	Agreements to be signed.	Project to start in spring 2008.

4. COMMUNICATION ACTIVITIES

Slaughter Industry Meeting

On January 30, 2007 a meeting at the Ministry of Agriculture and Lands building in Abbotsford was held with existing Fraser Valley slaughter plant operators, Ministry of Agriculture and Lands, and CFIA. The purpose of the meeting was to update people on: CFIA – Health of Animals Act, Health of Animals Regulations, policies regarding SRM management, and financial assistance programs offered by LWTI.

Pacific Agriculture Show

The Coordinator attend the Pacific Agriculture Show on February 15, 2007 at the Investment Agriculture Foundation booth to inform show attendees about the LWTI activities, explain the slaughter industry regulatory requirements and raise awareness of emergency planning needs for mass carcass disposal.

Out Reach to Slaughter Plant Operators

The coordinator visited a number of slaughter plant operators not previously visited, with the purpose of touring the facilities, learning the waste management challenges the operators faced, and explaining the LWTI and BC SRM Management Programs. Operators where visited in: Courtenay, Cranbrook, Creston, Duncan, and Nanaimo, during August and September 2007.

Community Meetings

The coordinator attended five meeting held in Kamloops with key stake holders from local and provincial governments, slaughter plant operators and technology and service providers. The purpose of these meeting is to encourage local solutions for SRM and non-SRM disposal, containment or recycling.

The coordinator attended a similar meeting held in Creston on September 11, 2007.

UBCM Convention

The Coordinator attend the Union of British Columbia Municipalities (UBCM) – Trade Show on September 27, 2007 at the Investment Agriculture Foundation booth to inform show attendees about the LWTI activities, explain the slaughter industry regulatory requirements and raise awareness of emergency planning needs for mass carcass disposal.

The coordinator gave a talk about LWTI and UBCM program development as part of a panel discussing “Emergency Prep: Farmed Animal Disposal” on September 28, 2006 to about 30 delegates.

LWTI Flyer

A flyer describing the LWTI was prepared and printed in September for hand out at the UBCM Convention.

Agency Up-Date Meeting

On November 7, 2007 a meeting was held in Abbotsford to up-date LWTI Management Committee, Ministry of Agriculture and Lands staff, local Canadian Food Inspection Agency staff and BC Food Processors Association and Meat Industry Enhancement Strategy (MEIS) staff about:

- LWTI up-date on British Columbia waste tissue disposal.
- CFIA up-date on SRM regulations and policies for: landfills, slaughter plants, cut and wraps, transporters, composting, and emergency situations.
- Ministry of Environment up-date on the changes to the Organic Mater Recycling Regulation and the new Slaughter Plant Waste Regulations.
- British Columbia Center for Disease Control up-date on the Meat Regulations and status of cattle slaughter plants licenses.
- Meat Industry Enhancement Strategy up-date on location and status of new cattle slaughter facilities.
- BC SRM Management Program up-date on sub-program descriptions and program up-take.

Emergency Preparedness

The Coordinator attended and gave a presentation titled “Emergency Events That Result in Farm Animal Mass Carcass Disposal Challenges” at the Emergency Preparedness Conference held in Vancouver on November 21, 2007. About 25 people attended the presentation.

LWTI Summary Reports

The Coordinator produced LWTI summary reports for the LWTI Management Committee, Investment Agriculture Foundation, and funding partners. These reports distributed April 13, and December 3, 2007 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 went through a major up-grade and conversion to the new Investment Agriculture Foundation format this year. New information was added several times during the year, including:

- Projects approved by the LWTI Management Committee.
- For projects that where completed links to final reports.
- A request for proposals for project LWTI 023.

5. PROGRESS TOWARDS STRATEGIC PLAN GOALS

Proposed Activities	Actual Activities	Comments
<p>Action Item 1.1.1. Clarify the conditions that will have to be met for slaughter plants to stay in operations.</p>	<p>2005</p> <ul style="list-style-type: none"> • Coordinator attending federal/provincial/territorial meetings and by having CFIA present information at the agency up-date meeting held October 12, 2005. <p>2006</p> <ul style="list-style-type: none"> • CFIA announced SRM regulations in June, coming into effect July 12, 2007. • CFIA explained regulations at slaughter industry meeting held September 23, 2006. • Project LWTI 024 risk assessment of BC naturally contained landfills started. <p>2007</p> <ul style="list-style-type: none"> • CFIA explained regulations at Fraser Valley slaughter industry meeting held January 30, 2007. • Project LWTI 024 risk assessment of BC naturally contained landfills completed and CFIA amended requirements allowing landfills to be used. • CFIA present information at the agency up-date meeting held November 7, 2007. 	<p>2006 Coordinator explained CFIA regulations and policies as understood 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>2007 Coordinator continued to explain regulations to all interested parties.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>2007 Action item 1.1.1. can be considered completed.</p> </div>
<p>Action Item 1.1.2. Determine which slaughter plants existing disposal methods will not be able to meet the CFIA conditions.</p>	<p>2005</p> <ul style="list-style-type: none"> • Slaughter facilities were not evaluated. • 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. <p>2006</p> <ul style="list-style-type: none"> • Coordinator kept in contact with slaughter plant operators regarding CFIA regulations causing the facilities to be shut down. <p>2007</p> <ul style="list-style-type: none"> • Coordinator continued to keep in contact with slaughter plant operators regarding CFIA regulations causing the facilities to be shut down. 	<p>2007 No slaughter plants have been forced to close due to the impact of CFIA regulations.</p>

Proposed Activities	Actual Activities	Comments
<p>Action Item 1.1.3. 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>2005</p> <ul style="list-style-type: none"> A program was started to address the need for individual planning LWT009 "Situation Analysis and Solution Identification Program". <p>2006</p> <ul style="list-style-type: none"> Nine slaughter plants were evaluated for waste disposal options through LWT1 009. <p>2007</p> <ul style="list-style-type: none"> No new activity. 	<p>2007 Most of the slaughter plants existing in 2005 that are not served by a waste collector have now completed a review of their disposal options. Not expecting any more activity in this action item.</p>
<p>Action Item 1.1.4. The Management Committee delivers a project best suited to meet the need of the slaughter plants that need temporary help.</p>	<p>2005</p> <ul style="list-style-type: none"> No requests for temporary assistance were received. <p>2006</p> <ul style="list-style-type: none"> No requests for temporary assistance were received. <p>2007</p> <ul style="list-style-type: none"> No requests for temporary assistance were received. 	<p>2007 Some slaughter plants are facing very high costs for waste tissue removal service. Once a medium to long term solution is identified and commitment made to implement the solution these slaughter plants may require temporary funding assistance.</p>
<p>Action Item 2.1.1. A clear understanding 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>2005</p> <ul style="list-style-type: none"> 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. <p>2006</p> <ul style="list-style-type: none"> Projects LWTI 021 landfill requirements, LWTI 022 air emission requirements and LWTI 024 landfill risk assessment initiated by LWTI. <p>2007</p> <ul style="list-style-type: none"> Projects LWTI 021 landfill requirements, and LWTI 022 air emission requirements completed and MOE developed new regulations based on project results for slaughter plant waste management. LWTI 024 landfill risk assessment completed and CFIA amended requirements allowing landfills to be used. 	<div style="border: 1px solid black; padding: 5px;"> <p>2007 Action item 2.1.1. can be considered completed.</p> </div>
<p>Action Item 2.1.2. 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>2005</p> <ul style="list-style-type: none"> Four feasibility projects were approved: LWTI 001, LWT 003, LWT006, and LWT007. <p>2006</p> <ul style="list-style-type: none"> New projects approved: LWTI 015, LWTI 019. <p>2007</p> <ul style="list-style-type: none"> New projects approved: LWTI 026 and LWTI 027. 	
<p>Action Item 2.1.3. 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>2005</p> <ul style="list-style-type: none"> No activity. <p>2006</p> <ul style="list-style-type: none"> New projects approved: LWTI 017. <p>2007</p> <ul style="list-style-type: none"> New project approved: LWTI 031. 	

Proposed Activities	Actual Activities	Comments
<p>Action Item 2.2.1. Provide technical assistance to slaughter plant operators for on-site and to communities for off-site waste containment or destruction systems</p>	<p>2005</p> <ul style="list-style-type: none"> • A program was started to provide technical assistance when evaluating disposal options, LWT009 "Situation Analysis and Solution Identification Program". <p>2006</p> <ul style="list-style-type: none"> • Nine slaughter plants were evaluated for waste disposal options through LWTI 009. • New projects approved: LWTI 013 and LWTI 014. • Slaughter industry meeting held September 23 to explain agency regulations and permitting process. • Web page contains links to regulations. • Coordinator provided technical advice to individual slaughter plant operators. <p>2007</p> <ul style="list-style-type: none"> • Slaughter industry meeting held January 30 to explain agency regulations and permitting process. • Coordinator provided technical advice to individual slaughter plant operators. 	
<p>Action Item 2.2.2. Provide financial assist to slaughter plant operators who are install infrastructure to manage SRM separately from other wastes.</p>	<p>2005</p> <ul style="list-style-type: none"> • No activity. <p>2006</p> <ul style="list-style-type: none"> • No activity. <p>2007</p> <ul style="list-style-type: none"> • No activity. 	<p>2007 Projects that would fit under this action item are being funded through the BC SRM Management Program.</p>
<p>Action Item 2.2.3. Provide financial assist to slaughter plant operators who are install infrastructure to manage waste containment or destruction systems.</p>	<p>2005</p> <ul style="list-style-type: none"> • No activity. <p>2006</p> <ul style="list-style-type: none"> • No activity. <p>2007</p> <ul style="list-style-type: none"> • No activity. 	<p>2007 Projects that would fit under this action item are being funded through the BC SRM Management Program.</p>
<p>Action Item 2.2.4. 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>2005</p> <ul style="list-style-type: none"> • 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." <p>2006</p> <ul style="list-style-type: none"> • Ministry of Environment workshop February 15 to explain challenges slaughter industry facing. • One slaughter plant assisted through LWTI 010. <p>2007</p> <ul style="list-style-type: none"> • One slaughter plant requested assisted through LWTI 025. • Agency meeting November 7 to gain common understanding of all the regulations slaughter plant operators need to follow. • Coordinator worked with slaughter plant operators and agencies to expedite where possible the permit approval process. 	

Proposed Activities	Actual Activities	Comments
<p>Action Item 2.3.1. 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>2005</p> <ul style="list-style-type: none"> • Local government emergency planners and waste managers and other interested stakeholders were invited to attend one of eight regional meetings where existing Ministry of Environment and proposed CFIA requirements were explained. <ul style="list-style-type: none"> ○ 22 local government staff attended the meetings. ○ 27 agency staff attended the meetings. ○ 24 other interested stakeholders attended the meetings. <p>2006</p> <ul style="list-style-type: none"> • No specific activities. <p>2007</p> <ul style="list-style-type: none"> • Coordinator contacted all Regional Districts regarding their landfills receiving SRM and the CFIA permits required. • Coordinator involved in community meeting looking for community options for waste tissue disposal. 	<p>2006 Coordinator explained regulations and issues around SRM management (from both slaughter plants and emergency events) 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>2007 Coordinator continued to educate all interested parties.</p>
<p>Action Item 3.1.1. Inventory of existing SRM management practices used and considered for use in BC.</p>	<p>2005</p> <ul style="list-style-type: none"> • Through phone interviews and confirmation at the eight community meetings a data base of slaughter plants was developed. Information on existing disposal practices was tabulated. <p>2006</p> <ul style="list-style-type: none"> • Through discussions with individual slaughter plant operators the coordinator was aware of all SRM management practices being considered by the industry. <p>2007</p> <ul style="list-style-type: none"> • Through continued discussions with individual slaughter plant operators and industry partners the coordinator was aware of all SRM management practices being considered by the industry. 	<div style="border: 1px solid black; padding: 5px;"> <p>2007 Action item 3.1.1. can be considered completed.</p> </div>
<p>Action Item 3.1.2. Identify existing applicable risk assessments and conduct an information gap analysis.</p>	<p>2005</p> <ul style="list-style-type: none"> • This action item was not completed by the LWTI because CFIA completed risk assessments for all disposal methods of interest to BC. <p>2006</p> <ul style="list-style-type: none"> • The coordinator performed the gap analysis and identified the need for a risk assessment for BC naturally contained landfills typically used in BC. <p>2007</p> <ul style="list-style-type: none"> • No new risk assessments were identified. 	<div style="border: 1px solid black; padding: 5px;"> <p>2007 Action item 3.1.2. can be considered completed.</p> </div>

Proposed Activities	Actual Activities	Comments
Action Item 3.1.3. Conduct risk assessments for the identified information gaps.	2005 <ul style="list-style-type: none"> No activity in this area. 2006 <ul style="list-style-type: none"> Project LWTI 024 was initiated by LWTI in response to the identified need. 2007 <ul style="list-style-type: none"> Project LWTI 024 risk assessment of BC naturally contained landfills completed and CFIA incorporated the information generated into permitting decisions for BC landfills. 	Risk assessments for practices used in BC are published by CFIA or in the landfill risk assessment done for LWTI. No other risk assessments have been identified as needed for BC. <div style="border: 1px solid black; padding: 5px; width: fit-content;"> 2007 Action item 3.1.3. can be considered completed. </div>
Action Item 3.1.4. Produce a document summarizing the absolute and relative risks associated with SRM management methods.	2005 <ul style="list-style-type: none"> No activity in this area. 2006 <ul style="list-style-type: none"> No activity. 2007 <ul style="list-style-type: none"> No activity. 	At the present time it not felt that a summary document is needed <div style="border: 1px solid black; padding: 5px; width: fit-content;"> 2007 Action item 3.1.4. can be considered completed. </div>
Action Item 4.1.1. Scan other jurisdictions for technology options or alternative uses for tissue wastes and report on findings	2005 <ul style="list-style-type: none"> Not started. 2006 <ul style="list-style-type: none"> Coordinator attend CFIA SRM workshop in Alberta September 27. 2007 <ul style="list-style-type: none"> Coordinator met with a number of technology providers to discuss the applicability of their technology in SRM management. 	
Action Item 4.1.2. Research promising technologies and alternative uses for tissue wastes that if proven successful may be adopted by BC tissue waste generators or service providers.	2005 <ul style="list-style-type: none"> Not started. 2006 <ul style="list-style-type: none"> No applications for projects. 2007 <ul style="list-style-type: none"> No applications for projects. 	2006 & 2007 Coordinator efforts were to demonstrate technologies that are well proven. No technologies of interest for use in BC are at the research stage.
Action Item 5.1.1. 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.	2005 <ul style="list-style-type: none"> 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. 2006 <ul style="list-style-type: none"> Coordinator working closely with UBCM to start and oversee project LWTI 018 to develop a template for local governments to use. 2007 <ul style="list-style-type: none"> Project LWTI 018 completed. New project LWTI 029 started enabling UBCM to fund local government emergency planning. 	
Action Item 5.1.2. 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.	2005 <ul style="list-style-type: none"> Not started. 2006 <ul style="list-style-type: none"> Not started. 2007 <ul style="list-style-type: none"> Not started. 	2006 & 2007 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.

Proposed Activities	Actual Activities	Comments
<p>As part of Strategy 5.1 In 2006 the province instructed LWTI to also consider emergency planning for farmed salmon mass carcass disposal.</p>	<p>2006</p> <ul style="list-style-type: none"> • Project LWTI 020 started. <p>2007</p> <ul style="list-style-type: none"> • Coordinator worked with the consultant, agencies and Salmon Farmers on project LWTI 020. 	
<p>Action Item 5.2.1. Develop a new Foreign Animal Disease Emergency Support Plan to reflect what was learned through BSE and AI outbreaks.</p>	<p>2005</p> <ul style="list-style-type: none"> • 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. <p>2006</p> <ul style="list-style-type: none"> • Phase I (LWTI 005a) completed and phase II (LWTI 005b) of FADES started. <p>2007</p> <ul style="list-style-type: none"> • Phase II completed and phase III (LWTI 030) of FADES started. 	<p>Project is expected to be completed when phase III is completed.</p>
<p>Action Item 5.2.2. 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>2005</p> <ul style="list-style-type: none"> • Not started. <p>2006</p> <ul style="list-style-type: none"> • Not started. <p>2007</p> <ul style="list-style-type: none"> • Not started. 	<p>2006 & 2007 This action item can not start until local governments have completed their emergency plan funded thought action item 5.1.1.</p>
<p>Action Item 5.2.3. Determine the need for and possible locations of new carcass disposal options and suggest what those options are.</p>	<p>2005</p> <ul style="list-style-type: none"> • Not started. <p>2006</p> <ul style="list-style-type: none"> • Coordinator attended USDA workshop on mass carcass disposal planning and options. <p>2007</p> <ul style="list-style-type: none"> • Project LWTI 023 emergency disposal of large animals in the Fraser Valley started. 	
<p>Action Item 5.2.4. Conduct preliminary design of options identified in 5.2.3. Starting with the areas with the largest shortfall in capacity.</p>	<p>2005</p> <ul style="list-style-type: none"> • Not started. <p>2006</p> <ul style="list-style-type: none"> • Not started <p>2007</p> <ul style="list-style-type: none"> • Not started 	<p>2006 & 2007 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>