

Technical Tips

Typical Drawings and Specifications for Road Deactivation Planning and Prescriptions".

The concept of the contract was to develop more detailed typical drawings for road deactivation activities such as:

- road deactivation mapping symbols
- cross-sections
- sidecast pullback
- fill placement
- road deactivation profiles
- ford design, and
- standard vehicle dimension templates

The consultant went through a step by step consultative process with regional WRP staff to produce the typical drawings. The process included research to ensure a product based on engineering principles, with due consideration of actual field work procedures.

The final product of the contract is a set of typical drawings that will clearly and effectively present the

concepts of road deactivation to a wide spectrum of users. Figure 1, adapted for Streamline from Drawing 012094-00-03-02, illustrates typical cross ditch templates for two-wheel drive, four wheel drive and All Terrain Vehicle access. It is expected that users of the drawings will include, licensees, staff of the Ministry of Forests, consultants, contractors, and land-use planners.

The typical drawings have been very well received in the Kamloops Forest Region, and are currently being distributed to the other forest regions in the province. Together with a similar set of drawings done for the Vancouver Forest Region, they form the basis for the new Advanced Road Deactivation Course being offered at regional centers this fall.

For information contact:

Ernie Carson

*WRP Engineer, Kamloops Forest Region,
Ministry of Forests, 515 Columbia St.,
Kamloops, B.C. V2C 2T7;
Tel: 250-828-4133 FAX: 250-828-4154 ▲*

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Conferences

Squamish River Watershed Fisheries Sustainability Forum. November 27-29. A first call for presentations has been issued. Major objectives include exchange of information between a wide array of stakeholder groups, discussions about fisheries sustainability, and how to achieve it in the Squamish River watershed over the long-term. For information, send a FAX to 604-685-5373 or write to the sponsors: Sustainable Fisheries Foundation, 2376 Yellow Point Rd, RR#3, Ladysmith, B.C., V0R 2E0, and the Squamish River Watershed Fisheries, c/o Forest Alliance of B.C., P.O. Box 49312, 1055 Dunsmuir St., Vancouver, B.C. V7X 1L3

The following conferences sponsored by Insight Information will be held at the Four Seasons Hotel in Vancouver. For more information contact: Tel: 416-777-2020 FAX: 416-777-1292.
Site Deactivation and Rehabilitation Under the B.C. Forest Practices. December 2. Cost \$695.50. Covering new application requirements; differ-

ing deactivation standards under the Code, on private land and for the FRBC; developing reclamation planning strategies; and techniques to restore natural drainage, rehabilitate soil and re-vegetate the sites.

Recent Initiatives to Streamline Forest Practices in B.C. December 3-4. Cost - \$909.50. Effects of the most recent development in the evolution of the Code will be explored, including: industry experiences in complying with the reduced planning requirements, trends in logging costs under the Code, standards to protect community watersheds, new economic effects criteria, extending the Code to private land, the effect of the new amendments on enforcement and the impact of the recently announced Jobs and Timber Accord.

Training Courses and Seminars

Watershed Restoration Program

The Ministry of the Environment is offering several short training workshops this fall: Fish Habitat Assessment and Rehabilitation Procedures

(FHAP/FHRP) in Port Hardy from October 20-24, and Channel Conditions and Prescriptions Assessment (CCPA). The CCPA will be offered in Kamloops on October 15-16, Chilliwack on October 29-30, and Nanaimo on November 3-4. A pilot workshop on Riparian Assessment and Prescription Procedures is under development. To receive registration information on WRP training courses, please call Irma Stevens (250-741-2678) and ask to be placed on the BC Forestry Continuing Studies Network's WRP mailing list.

The Ministry of Forests is continuing to sponsor a number of courses and seminars this fall, also through the BC Forestry Continuing Studies Network. Contact your closest Network office for course details of date, cost, and location.

The 1997 Forest Site Rehabilitation Workshop. This annual workshop will be held on November 27-28, at the Coast Bastion Inn in Nanaimo. The Workshop Organizing Committee request participants interested in presenting 20 to 25 minute talks about their rehabilitation projects or expe-

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riences to contact: Irma Stevens, BC Forestry Continuing Studies Network, Malaspina University College, Nanaimo, BC, V9R 5S5 Tel: 250-741-2678. FAX: 250-741-2190.

Forest Road Deactivation. This is a well-established course on basic road deactivation. It was developed by BCIT and has been available for the past three years. The three-day course will be offered in both Chilliwack and Campbell River, October 7-9.

Advanced Road Deactivation. This course was developed in 1997 and first delivered in May at Ucluelet. Also a three-day course, it is intended to complement the Forest Road Deactivation course, which is a prerequisite. The advanced course will be offered in the following locations: Ucluelet – Oct. 6-9, Oct. 14-17, Oct. 20-23; Vernon – Oct. 15-17; Terrace – Oct. 15-17; Williams Lake – Oct. 21-23; Prince George – Oct. 21-23; Nelson – Oct. 7-9.

Landslide Rehabilitation Assessment Procedures and Prescriptions For Treatment. This two-day course is designed to enable participants to develop prescriptions for landslide rehabilitation. It was developed and offered in the fall of 1996 and spring of 1997 in Ucluelet. Courses will be conducted in: Vernon – Oct. 7-8, 9-10, Nov. 3-4; Williams Lake – Nov. 6-7; Terrace – Oct. 21-22, 23-24.

Understanding and Using Terrain Maps. This newly developed two-day course is designed to familiarize participants with terrain symbols, terrain maps and their interpretation and the characteristics of terrain and surficial materials. The course will be conducted at Campbell River 3 times, Chilliwack twice; and once each at Queen Charlotte City, Squamish, Bella Coola, Nanaimo, Powell River, Williams Lake, Kamloops, Kelowna, Nelson, Cranbrook, Revelstoke, Smithers, Terrace and Prince George. Campbell River – Oct. 28-29, Oct. 30-31, & Nov. 17-18; Chilliwack – Nov. 13-14; Nanaimo – Oct. 21-22; Powell River – Nov. 20-21; Kelowna – Oct. 16-17; Kamloops – Oct. 6-7.

Soil Bioengineering. Also two days

long, this newly developed course will familiarize participants with the principles of slope stabilization using soil bioengineering techniques. One session will be offered at Mesachi Lake, October 22-23. Further courses will be offered in early 1998 after training sites have been identified and developed.

Information

Watershed Restoration Program Technical Circular 9, Fish Habitat Rehabilitation Procedures. (approx. 250 pp.) produced by Ministry of Environment, Lands and Parks (MELP), is now available without charge to those actively involved in WRP projects. Contact your MELP Region Fisheries Specialist to receive a copy. For those not actively involved in WRP stream rehabilitation work, contact Nicole Cote at the Forest Renewal BC Coordination Office: Tel: 250-356-7611.

River Biota: Diversity and Dynamics. Edited by G. Petts and P. Calow. Blackwell Science, Inc., Cambridge, Massachusetts. 1996. 257 pp. \$49.95. Tel: 412-741-5700. The ecology and adaptation of flora and fauna to riverine environments is covered in 12 chapters includes algae, macrophytes, microbes, invertebrates, fishes, food webs, detritus processing, primary production, sampling problems, responses to hydrologic change, and prediction of responses.

Restoring and Protecting Marine Habitat: The Role of Engineering and Technology Edited by the National Research Council. National Academy Press, Washington, DC. 1997. \$31 Tel: 202-334-3313 or Tel: 800-624-6242. Papers treat nontraditional approaches to habitat protection and the role of coastal engineering to protect, restore and create marine habitats.

The Cost of Doing Nothing: The Economic Burden of Salmon Declines in the Columbia River Basin. By the Institute for Fisheries Resources, Eugene, Oregon. 1996. 64 pp.

\$10 (paper). Contact: Institute for Fisheries Resources, P.O. Box 11170, Eugene, OR 97440-3370; Tel: 541-689-2000.

Websites

www.4sos.org

For the Sake of Salmon focuses on Pacific Northwest projects and activities. The site includes a technical resource library on habitat protection and restoration, current events and watershed project profiles.

Streamline

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B.C. Ministry of Environment, 2204 Main Mall, Vancouver, B.C. V6T 1Z4
FAX: 604-660-1849
email: csoto@ubc.env.gov.bc.ca

Editor: Cristina Soto
Contributing Editor: Aubrey Brown
Design: Diana McPhail

Streamline's goals are to communicate information on practical approaches to watershed restoration including the rehabilitation of stream channels, riparian zones and hillslopes, and to act as a link between geographically-separated WRP proponents and their contractors by facilitating the sharing of information and ideas between the regions of B.C. We rely on our readers' participation. Please send articles and project descriptions (with relevant photos and drawings), as well as information for our "Update" section. We reserve the right to edit submissions for appropriate content, style and relevance to the Technical Bulletin.

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