

## **10.0 THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN (TESC PLAN)**

### **10.1 General**

The temporary erosion and sediment control plan (TESC Plan) constitutes the measures designed and installed by the contractor to address matters of erosion and sediment control which the contractor anticipates during the construction contract and includes activities up to the point of final acceptance of the construction work. The TESC Plan is prepared by the contractor and forms one component of the ECO Plan which is also prepared by the contractor.

### **10.2 Contractor's Responsibility**

The contractor is required to prepare and submit an ECO Plan to the consultant prior to construction. In order to develop a proper TESC Plan, the contractor should incorporate recommendations of the consultant's PESC Plan and Environmental Risk Assessment.

Responsibilities of the Consultant and Contractor as well as the guidelines on preparing an ECO Plan are outlined in the most current version of the ECO Plan Framework which can be found on Alberta Transportation's website at <http://www.transportation.alberta.ca/571.htm>.

### **10.3 TESC Plan Documentation**

As a minimum, the following should be addressed in the TESC Plan:

- Design of the TESC Plan including addressing procedural or minimum requirements, required BMPs and site specific designs;
- Shut Down considerations;
- Inspection, Monitoring and Maintenance requirements; and
- Emergency Response Plan and incident reporting requirements.

### **10.4 Site Inspection During Construction**

During construction, before final acceptance of the construction contract works, the responsibility for the inspection, maintenance and repair of all TESC measures lies with the contractor. A schedule of planned maintenance activities is required with the submission of the ECO Plan. When implemented controls are insufficient or not working as intended, changes to the TESC Plan component must be made by the contractor to ensure continued compliance.

All erosion and sediment control measures must be inspected daily by the contractor and following heavy rainstorms or snowmelt events. Some measures will require periodic replacement and/or removal of accumulated sediment.

Damage or deficiencies to control measures should be corrected immediately.

Details on inspection, maintenance and repair activities shall be recorded on the "Inspection and Maintenance Form" presented in Appendix D.

### **10.5 Shutdown Considerations**

The TESC Plan must include provisions for erosion and sediment control during shutdown periods. Shutdowns are considered any extended period of time during which the contractor is not actively developing the project site and may no longer have personnel or equipment on-site. Shutdowns may or may not be planned and may result from seasonal work stoppages, adverse weather events, or contractual disagreements.

During a shutdown, erosion and sediment control measures must still be inspected and maintained. This will include during winter shutdown and more importantly, during spring snow melt prior to construction re-start when the contractor must provide timely, regular monitoring and maintenance as well as install additional measures as necessary.

### **10.6 Emergency Response Plan**

The TESC Plan must show preparedness for an emergency response to erosion and sediment related problems. The contractor should reference the most current versions of the ECO Plan Framework and EMS Manual and should also reference the consultant's PESC Plan for information on requirements and procedures.

### **10.7 Inspection and Incident Reports**

All inspection, maintenance and repairs performed on erosion and sediment control measures should be recorded on the "Inspection and Maintenance Form" presented in Appendix D. Inspection and maintenance report and repair records must be kept at the construction site for review by construction personnel, inspectors, consultants and AT.

### **10.8 Post Construction**

After final acceptance, the inspection and maintenance responsibilities of any installations that must remain in operation will be transferred from the construction contractor to the Maintenance Contract Inspector (MCI) and AT's Maintenance Contractor in the post construction phase. The respective maintenance responsibilities at the Construction Phase and Post Construction Phase are described in Construction Bulletin #12, which is available on Alberta Transportation's website at [www.transportation.alberta.ca/920.htm](http://www.transportation.alberta.ca/920.htm).

Inspection and maintenance must continue until the BMP is no longer required, at which time the BMP will have to be properly removed. The following circumstances and conditions will permit BMPs to be removed:

- Revegetation of bare soil is successful;
- No obvious erosion scour is observed;
- No obvious bed load of silt and sediment laden runoff is observed; and
- AT maintenance staff will assess and decide on performance of the structures and requirement for necessary removal.