

B.C. MINISTRY OF TRANSPORTATION
SA11 – LOCAL AREA SPECIFICATION #1
HORIZONTAL DRAIN MAINTENANCE

1. OBJECTIVE

To maintain continued effectiveness of the drainage system for slide stabilization and frost heave drainage.

This service area has a minimum of 7 horizontal drain sites with a minimum of 1 drain per site and one with 21 drains. All site locations are identified by odometer to the nearest landmark with individual drain detail in the attached Appendix 1. Appendix 1 of this Local Area Specification lists current slide sites with horizontal drains. Additional sites/drains may be added during the term of the contract, but the number is expected to be minimal.

2. GENERAL PERFORMANCE SPECIFICATIONS

2.1 Routine Maintenance Services

All services for this Local Area Specification are routine.

Site plans for the Moyie Bluff drains are available to view at the East Kootenay District office.

2.2 Quantified Maintenance Services

Not applicable to this Local Area Specification.

3. DETAILED PERFORMANCE SPECIFICATIONS

3.1 Routine Maintenance Services

The Contractor must:

- a) ensure access to all horizontal drain sites are free of Debris;
- b) clear vegetation cover to access drain outlets and collector system cleanouts; ensure drains are free draining;

- c) flush the drain casings of sediment and clean the slots and perforations of obstructions and caking;
- d) inspect all sites and drains to ensure efficiency and notify the Province of failures or safety concerns;
- e) collect and record data on flow rates and drain condition from each drain and record the length of insertion by the cleaning tools;
- f) repair and/or reconstruct collector systems and drains at sites where drain discharge is saturating the slope or surrounding area.

3.1.1 Performance Time Frames

The Contractor must:

- a) maintain access to site as required;
- b) not allow vegetation to exceed 20 cm or density to impede drainage; minimum once per year or more frequently if required;
- c) flush and clean drains within 30 days of every annual inspection;
- d) inspect all sites and drains once per year or sooner as specified by the Ministry;
- e) collect and record data on flow rates and drain conditions before and after each flushing/cleaning;
- f) repair and/or reconstruct collector systems and drains within 30 days from the time the deficiency was detected by or notified to the contractor.

3.2 Quantified Maintenance Services

Not applicable to this Local Area Specification.

3.2.1 Performance Time Frames

Not applicable to this Local Area Specification.

3.3 Materials

Refer to Section B of the Introduction to the Maintenance Specifications.

4. WARRANTY

Not applicable to this Local Area Specification.

Local Area Specification # 1

Appendix 1

List of Slides Sites with Horizontal Drains in SA11

Road Name	LKI Segment	LKI Distance	LKI Offset Meters from centre line	RFI Landmark	RFI Offset (km)	Slide Name	Comments
Rte 95A	2115	53.45	-6.5 m	6300	1.4	Sand Hill	Sand Hill
Rte 95A	2115	15.73	+6.0	6000	0.050	Portious Rd	Frost heave drain north of Portious Road
Rte 3/93	1385	19.205	+6.0	3705	2.407	Steamboat Hill	
Rte 3/95	1380	43.489	+4.0/7.2	3315	0.800	Moyie Bluffs	1 Drain 2-300mm Dia x 540 meters, c/w 6 manholes and 2 clean outs
Rte 3	1395	24.714	+10.0	4719	3.413	Fernie Slide	21 drains, 1 km west of ski hill turn off
Rte 3	1395	76.74	+6.0	5290	.0984	Sparwood Scale	1 Drain at Sparwood Scale
Road #26	N/A	N/A	N/A	N/A	N/A	Corbin Rd	6 Drains approx. 1 km from Hwy # 3