
April 7, 2015

District of Squamish
37955 2nd Avenue
PO Box 310
Squamish, BC
V8B 0A3

Attention: Application Review Staff

**Subject: Application for a Development Permit and Site Alteration Permit –
Squamish River Estuary –Geophysical and Geotechnical Investigations –
Eagle Mountain – Woodfibre Gas Pipeline Project**

Please accept this application to the District of Squamish for a Development Permit and Site Alteration Permit to conduct geotechnical and geophysical investigations in the Squamish River Estuary.

FortisBC proposes to conduct geotechnical and geophysical investigations to provide subsurface data in order to further assess the feasibility of a trenchless pipeline crossing of the Squamish River and parts of the Squamish River Estuary as part of the Eagle Mountain – Woodfibre Gas Pipeline Project.

FortisBC has received permission from provincial and federal regulators to undertake the proposed activities.

FortisBC is proposing to undertake geophysical investigations in the Squamish River Estuary and undertake geotechnical investigations at boreholes E-BH-4 and E-BH-6 (see attached map).

The geophysical surveys will consist of Ground Penetrating Radar, Electrical Resistivity Tomography or Multi-channel Analysis of Surface Waves, or a combination of these methods. All methods use portable equipment that is easily carried and used in the field. An approximate 1 m wide clearing is needed for the geophysical investigation. It is anticipated that the clearing will be limited to brush, tree branches and potentially small trees (< 10 cm).

Each borehole location will include a vertical bore of approximately 80 m below ground level and two lateral bores of 800 m. The lateral drill paths from E-BH-4 would extend southwest under the Squamish River in the direction of proposed KP 40. The lateral drill paths from E-BH-6 would extend northeast under a portion of the Squamish River Estuary in the direction of the proposed Sabre Compression Station Site. The lateral drills would occur at two depths, approximately 30 m and 70 m below ground level.

Table 1 presents the location of the boreholes.

TABLE 1 SUMMARY OF BOREHOLE SITES

Borehole	Location	Northing	Easting	Approximate Pad Size	Ownership
E-BH-4	Spit Road (Squamish River Dike)	5506556	487901	25 m x 6 m	Crown land
E-BH-6	Spit Road (Squamish River Dike)	5506884	487900	25 m x 6 m	Crown land

The drill paths will extend beneath several lots as identified in Table 2.

TABLE 2 SUMMARY OF LOTS

Borehole	Lateral Direction	District Lot	Title No.	Parcel Identifier	Owner
E-BH-4	Southwest	610	A33416	015-980-022	Crown
		Unsurveyed Crown land	--	--	Crown
		--	--	015-861-244	Crown
E-BH-6	Northeast	610	A33416	015-980-022	Crown
		Unsurveyed Crown land	--	--	Crown
		7897	BR210757	025-392-239	BCR Properties Ltd.
		4261	BT124726	015-857-841	BCR Properties Ltd.
		7913	BA179207	025-392-026	BCR Company
		4262	BW188180	013-336-169	BCR Properties Ltd.
		4262	--	013-336-282	Private (Rail yard)

Field work for the geotechnical and geophysical investigation program is proposed to begin in early June. To reduce the duration of the investigations, FortisBC proposes to be on-site approximately 11 hours per day, 7 days a week. The duration of the investigation program is anticipated to be 6 to 8 weeks. Table 3 provides a tentative schedule for the proposed geotechnical and geophysical investigations.

TABLE 3 TENTATIVE SCHEDULE FOR THE PROPOSED INVESTIGATION

Task	June 2015				July 2015			
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Equipment transport from staging area to E-BH-4 and conduct the investigation.	■							
Equipment transport from E-BH-4 to E-BH-6 and conduct the investigation.					■			
Geophysical investigation.	■							

The following documents, along with this letter, are included as part of the Development Permit and Site Alteration Permit Applications:

- a Land Development Application Form;
- a Land Development Document Checklist;
- a 1:5,000 Sketch Plan;
- a disposal of wood waste and land clearing debris statement;
- letters from Fisheries and Oceans Canada, the BC Oil and Gas Commission, the Agricultural Land Commission, the BC Ministry of Forests, Lands and Natural Resource Operations; and BC Rail;
- a cost estimate to complete revegetation works;
- a Riparian Assessment Report;
- a site profile of the two boreholes on Spit Road; and
- an Environmental Management Plan which contains a comprehensive project description and mitigation strategies to reduce potential effects from the proposed geotechnical and geophysical investigation activities.

Should you have any questions with respect to this letter or the attached information, please contact me.

Sincerely,



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