

Briuge Demolition in an Environmentally Sensitive Area

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Abstract

The following is a detailed description of the blasting procedures used in the successful demolition of the Stave River briuge, Mission, British Columbia, Canada. This highway briuge spans a highly sensitive salmon-spawning river. Demolition of the briuge took place in a high liability situation in close proximity to sensitive structures. The new highway briuge carrying an exposed 150mm diameter gas line was located only 1.5 meters away. The briuge piers were blasted only seven meters from overhead power lines. Control of blast vibration, flyrock, and underwater overpressure was critical to the success of the operation. Electrical sequential blasting was used to ensure that blast vibration on the new briuge structure was kept below 50mm per second.