

**Zamora, Phil**

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**From:** Boudreau, Paul R  
**Sent:** May 28, 2003 2:37 PM  
**To:** Winchester, Peter  
**Cc:** Surette, Tim; Stewart, Andrew R.J.; Zamora, Phil; Ross, Jim; Rose, Carol Ann (O&E)  
**Subject:** FW: White Point Quarry Blasting Plan

**Attachments:** Paintbrush Picture

Hi Peter:

Please find the attached e-mail from Diadromous Division received yesterday. It was written in response to our request for expert advice regarding the review of the blasting plan submitted by Nova Stone Exporters Inc. for their 3.9-ha test quarry at Whites Point, Digby Neck. The nearby Tiverton Quarry, Provincial Approval # 2003-032388, which was assessed by you in March, 2003, has similar blasting plans to the 3.9 hectare quarry at Whites Point.

Since inner Bay of Fundy Atlantic salmon are on the endangered species list, it is my opinion that the Tiverton Quarry file should be reassessed to determine if a HADD is likely to occur in light of this new information. Although the protection of most fish is achieved by DFO "Guidelines for the Use of Explosives in or Near Canadian Fisheries Waters" - 1998, the presence of species listed by COSEWIC requires a closer examination than the general guideline can provide.

If you would like to discuss this issue, contact Phil Zamora.

Cheers,

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-----Original Message-----

**From:** Amiro, Peter  
**Sent:** Tuesday, May 27, 2003 2:58 PM  
**To:** Zamora, Phil  
**Cc:** Boudreau, Paul R; Records, BIO; Marshall, Larry  
**Subject:** White Point Quarry Blasting Plan

Phil,

Larry Marshall asked me to respond to your inquiry of May 23, 2003 concerning the White Point, Digby Neck, quarry blasting application and possible impact on inner Bay of Fundy Atlantic (iBoF) salmon. Historic fishing, scientific sampling and theoretic modeling indicates that there could be migrating or resident iBoF Atlantic salmon in the area from May until October.

The coastal area of Digby Neck on the Bay of Fundy is a known area of cooler oceanic water entering the Bay of Fundy. These currents enter through the trough north of George's Bank, are driven to the surface and circulate in a counter clockwise pattern. The cooler portions are located toward the mouth of Bay of Fundy and are preferred habitat areas for Atlantic salmon. These cool water areas fluctuate monthly. Habitat area, suitable for Atlantic salmon, is available in this area during May and June and again in October and November. During July to September the cool water south of Digby Neck is perhaps critical to iBoF salmon. In general from December to April there is virtually no habitat suitable for Atlantic salmon in that area and few migrating Atlantic salmon.

Of particular note is the fact that Atlantic salmon, both post-smolt (50 to 150 g) and adult,(1000 to 2500 g) tend to travel in

very close proximity to the shoreline. In fact, many shore mounted stake nets were once fished in the inter tidal zone along the southeast shore of the Bay of Fundy. This fishery was a consistent source of tagged smolt, many from inner Bay of Fundy rivers. The fisheries were closed or restricted since 1983.

Based on these observations it is likely that Atlantic salmon of iBoF could be found in close proximity to the shore line of White Point from May to October.

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