

**From:** Ron Martel [rmartel@mountpolley.com]  
**Sent:** Wednesday, October 26, 2011 10:51 AM  
**To:** Dufault, Daryl A  
**Subject:** FW: Settling test using Glacial till  
**Attachments:** 2011.xml

Hi Daryl fyi, please file for future discussion

RON M

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**From:** Ron Martel  
**Sent:** Monday, August 15, 2011 10:21 AM  
**To:** Tim Fisch; Art Frye  
**Cc:** 'Paul Sterling'; Brian Kynoch; Don Parsons  
**Subject:** FW: Settling test using Glacial till

Hi Tim and Art,

I conducted a lab scale settling test using Long Ditch Water. The first test "Base Case" used Long Ditch water having a Total Suspended content of approximately 70 mg/L. The second test included adding glacial till to the base case test. Both tests ran for 72 hours, four (4) samples were taken for each test, (after 0, 24, 48 and 72 hours).

It seems that 24 hours is sufficient to settling the majority of the suspended solids and total metals. The glacial till added to the second test resulted in additional solid settling from 5 to 1.5 mg/L and consequently further reduction in most base metal by 50%.

The long ditch water quality improves when you remove the solid fraction; most metals are removed however Selenium and Sulphate remains unchanged.

Ron M