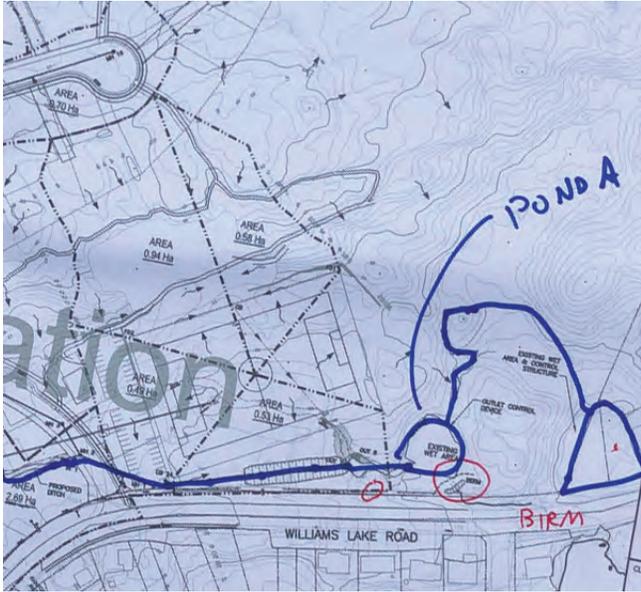
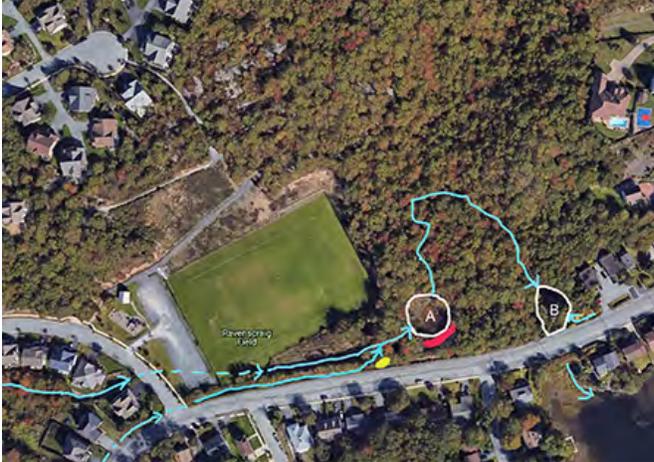


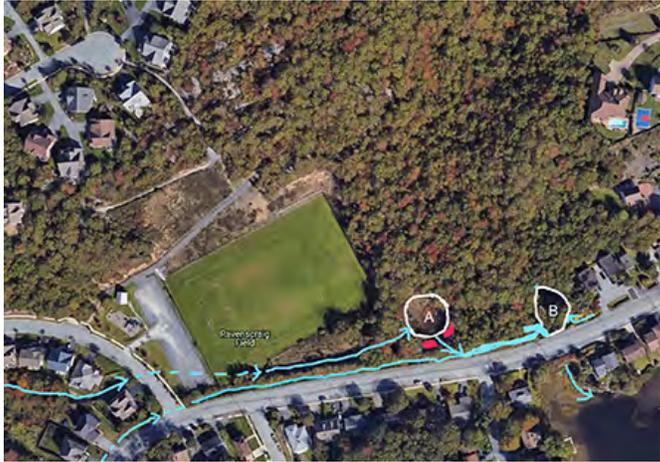
Water flow from Ravenscraig into Williams Lake
 Report from the Williams Lake Conservation Company - July 2021 (williamslakecc.org)



Original design by Polycorp showing position of wetland along the edge of the playing field engineered to lead all water from Ravenscraig hillside to settling pond A.



Original water flow



Current water flow

Water flow from Ravenscraig into Williams Lake

Water flow (blue arrows)(dashed blue indicates where water is channeled through culverts and underground pipes) is shown as originally intended (left) and current situation (right).

The original design slowed water run-off from the Ravenscraig development and hillside by ensuring water first went to settling pond A and from there followed a natural water course leading out of the back of Pond A through the woods to Settling Pond B. This gave time and a place for road run-off particulates and other suspended matter to settle out and hydrocarbons and other volatiles to evaporate before the water could move under the road and into Williams Lake.

Due to erosion of the original berm created by Polycorp on the Williams Lake Road side of settling pond A (shown in red) and clearance of a rock ridge (in yellow) by Halifax Water in 2017 (opposite house number 101) that had been diverting water coming down the ditch along the north side of Williams Lake Road into Pond A, water now goes rapidly straight to Settling Pond B which is overwhelmed and overgrown. Water now moves through the system too rapidly compromising the quality and quantity of water reaching the western end of Williams Lake.

- Solutions:
1. the earthen berm needs to be repaired
 2. the diversion in the ditch where the rock was removed needs to be reinstated
 3. Settling Ponds need to be periodically cleared