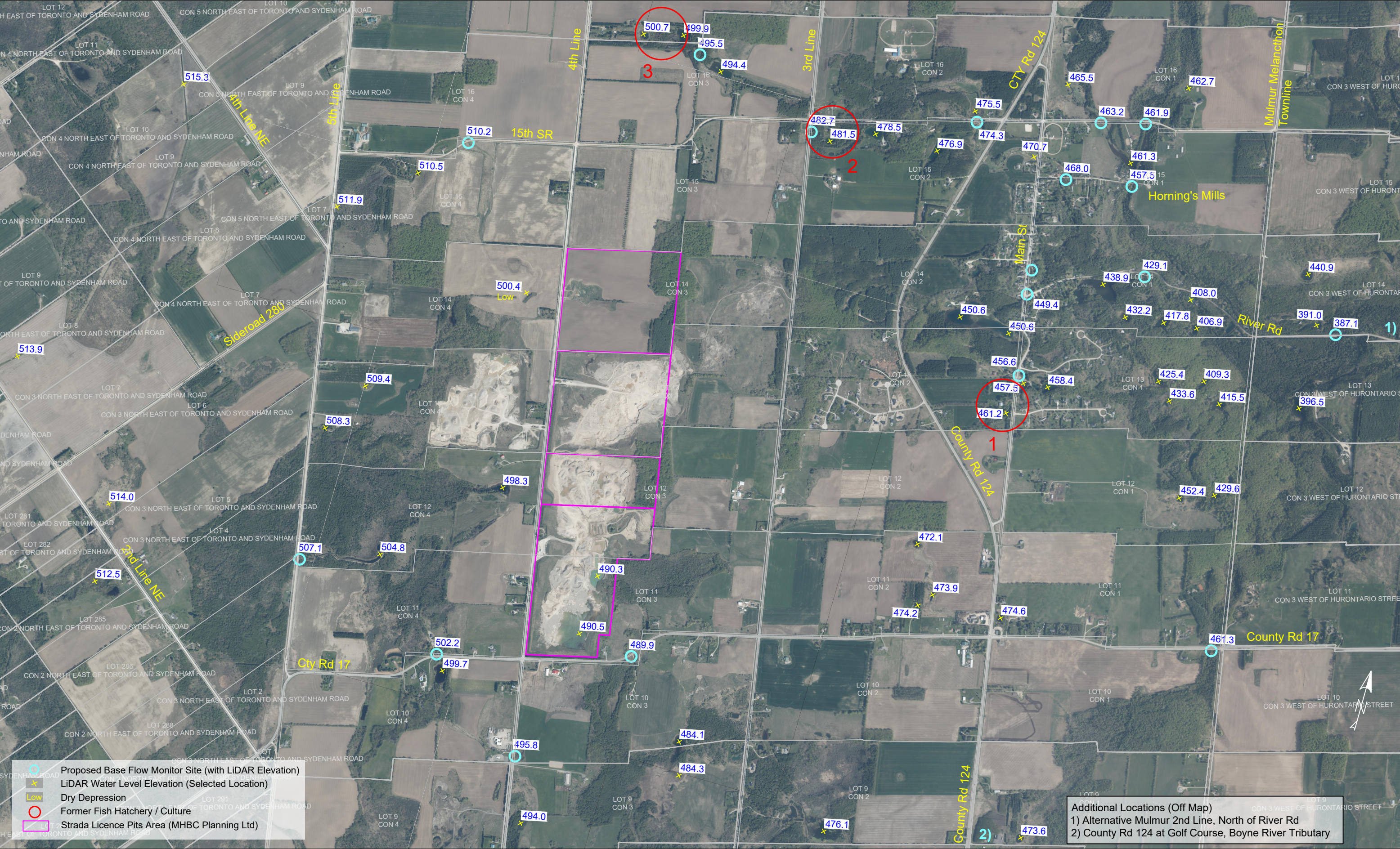




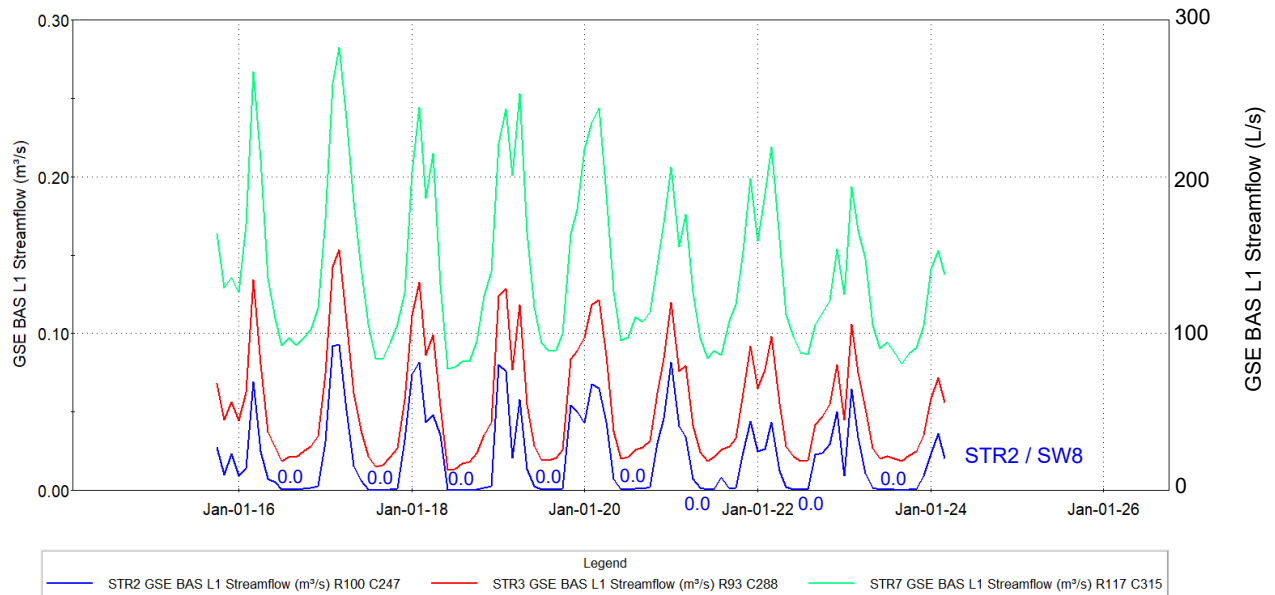
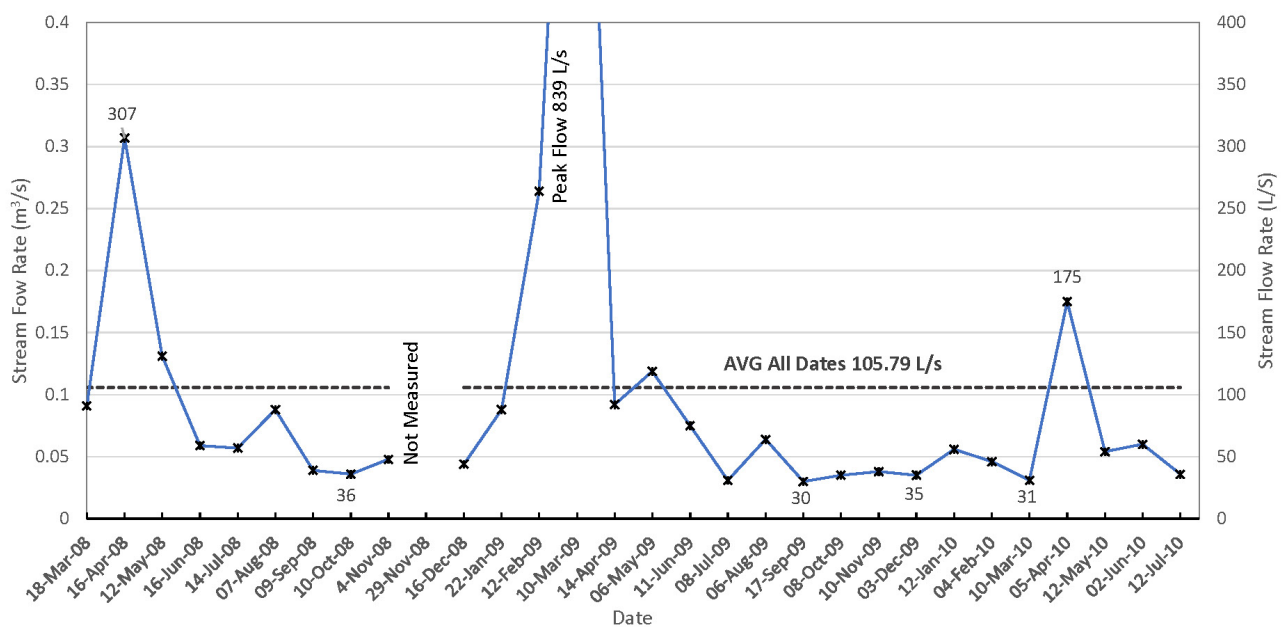


Figure 3.22: Baseline Surface Water flows at Stream locations north-east of the site

Data Source: NDACT DRAFT Impact Assessment Report, by Earthfx Inc. August 2024

Surface Water Flow Rate - SW8 / STR2

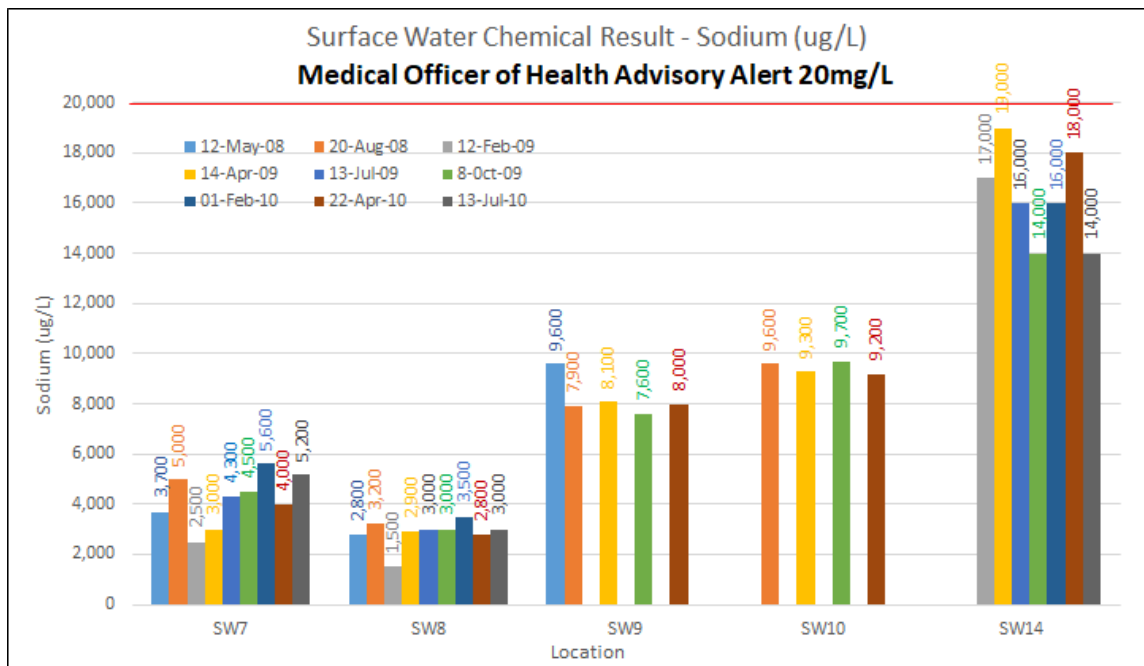
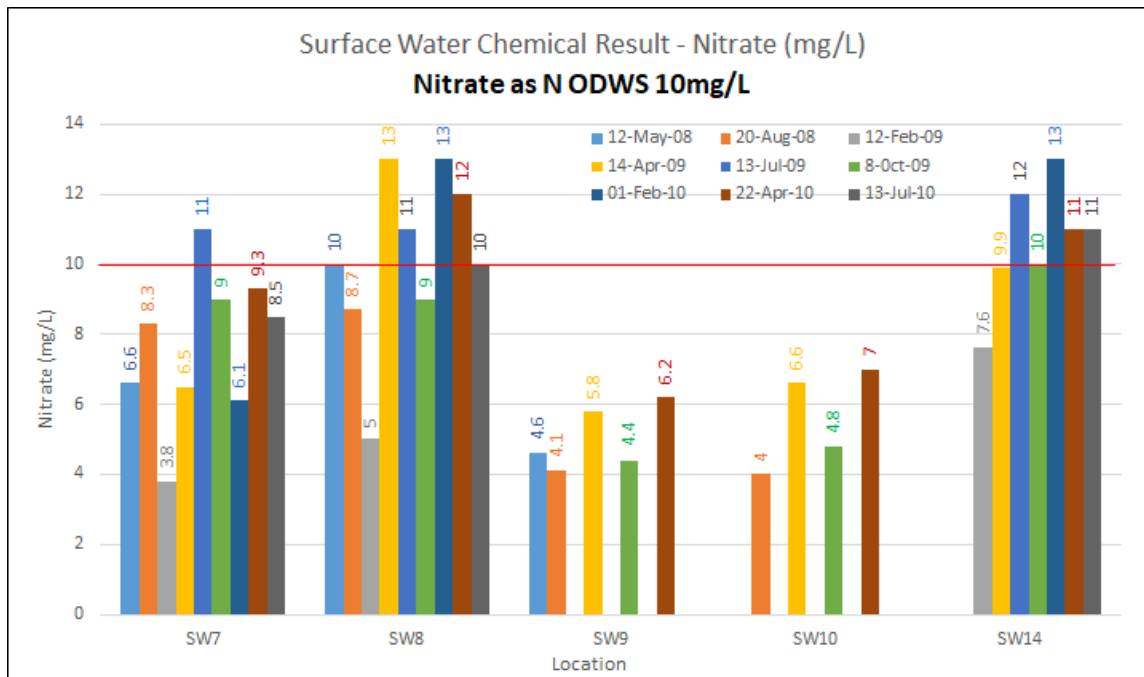


Data Source: Table E-2, Surface Water Flow Rates, The Highland Companies Proposed Melancthon Quarry Hydrogeologic and Hydrologic Assessment, Geographic Township of Melancthon, County of Dufferin, Volume 4 of 4, by Genivar Inc., January 2011

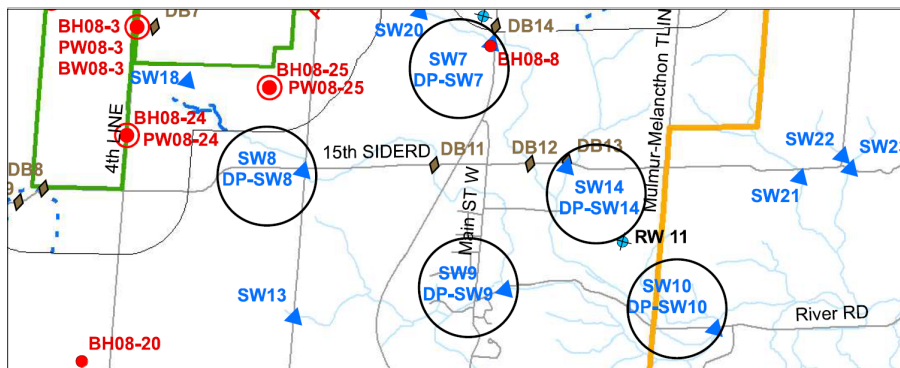
Notes:

- 1) Genivar (2011) Table H-27 reported simulated Groundwater Discharge Rate at SW8/STR2 at 3,520 m³/day (40.7 L/s) and calculated observed low baseflow at 3,575 m³/day (41.4 L/s).
- 2) Newell / Funston Commercial Aquaculture (Fish Hatchery / Rearing Ponds) MECP Permit PTTW #7121-9Y7HP7 total is 741 m³/day (8.6 L/s) (Earthfx Aug 2024, pg D-102) immediately downstream of SW8/STR2.
- 3) Genivar DP-SW8 reported Mean Flow at 0.35 m³/sec (350 L/s) in Earthfx Aug 2024 Table 3.6, pg D-57 and Table 4.3, pg C-83 or in the source material. This flow is an obvious error.
- 4) Earthfx (August 2024) Fig 3.22 pg 37 Simulated Virtual Model Baseline Condition Dry Weather Flow at SW8/STR2 is at 0.0 L/s.

The Earthfx Model Calibration for Baseline Conditions is obviously not validated for assessment prediction purposes.



Data Source: Table E-6 General Chemical Results -Surface Water, The Highland Companies Proposed Melancthon Quarry Hydrogeologic and Hydrologic Assessment, Geographic Township of Melancthon, County of Dufferin, Volume 4 of 4, by Genivar Inc., January 2011



Source: Figure H-3 Monitoring Locations Map, The Highland Companies Proposed Melancthon Quarry Hydrogeologic and Hydrologic Assessment, Geographic Township of Melancthon, County of Dufferin, Volume 4 of 4, by Genivar Inc., January 2011

File: Strada
File Date: September 10, 2024

