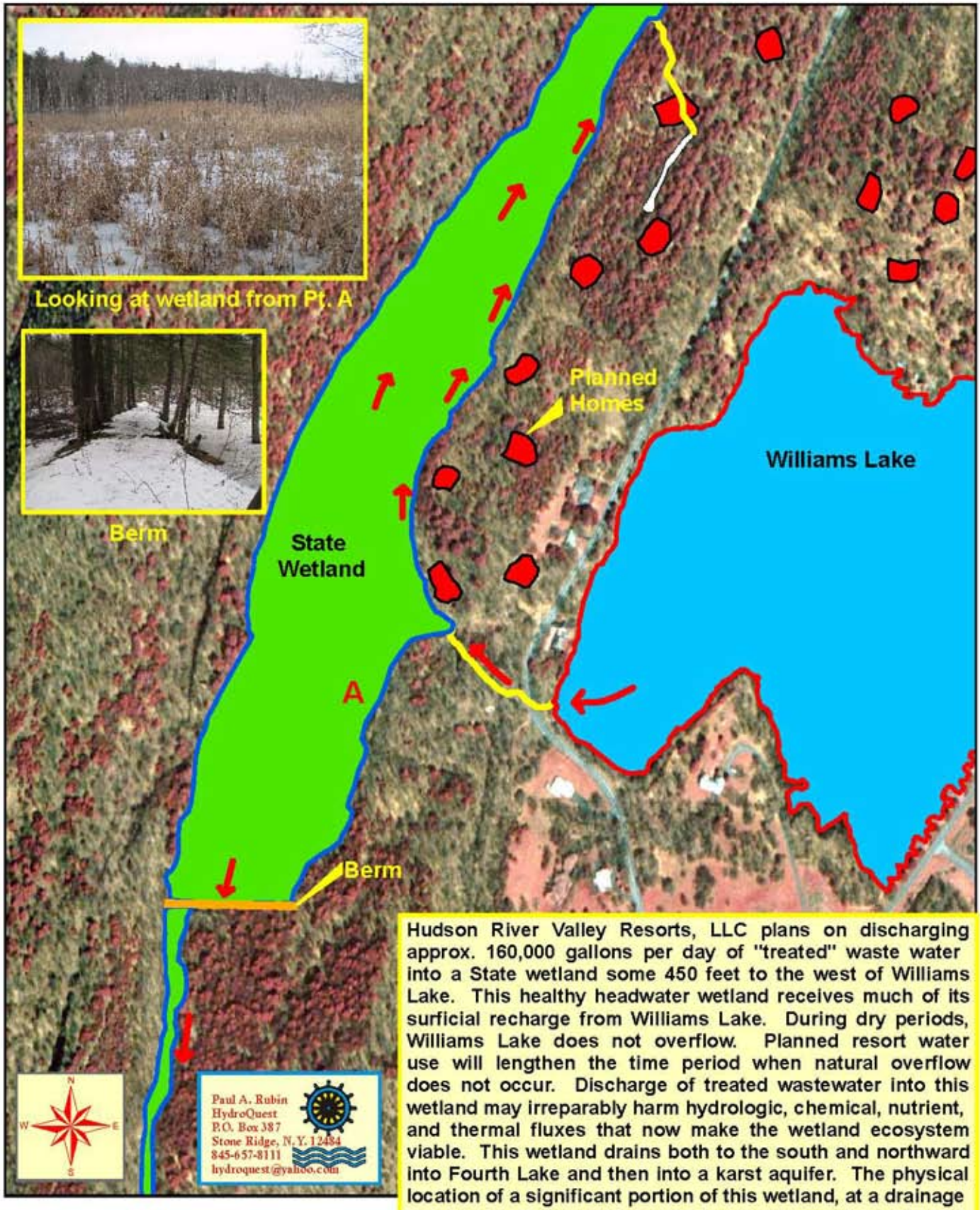
Wetland Flow Direction Analysis; Williams Lake Area, Rosendale

To Fourth Lake



Hudson River Valley Resorts, LLC plans on discharging approx. 160,000 gallons per day of "treated" waste water into a State wetland some 450 feet to the west of Williams Lake. This healthy headwater wetland receives much of its surficial recharge from Williams Lake. During dry periods, Williams Lake does not overflow. Planned resort water use will lengthen the time period when natural overflow does not occur. Discharge of treated wastewater into this wetland may irreparably harm hydrologic, chemical, nutrient, and thermal fluxes that now make the wetland ecosystem viable. This wetland drains both to the south and northward into Fourth Lake and then into a karst aquifer. The physical location of a significant portion of this wetland, at a drainage divide with little additional recharge, makes it particularly vulnerable to contaminant inputs and habitat modification.

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Figure 1