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March 25, 1994

Mr. Gary Foss  
Fredericksburg Christian School  
2221 Jefferson Davis Highway  
Fredericksburg, VA 22401

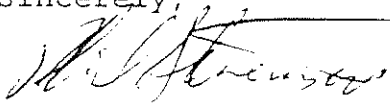
Dear Mr. Foss;

I have completed the survey for potential dwarf wedgemussel habitat within the impact zone of the proposed crossings of an unnamed tributary of Massaponax Creek. I followed the stream from the downstream edge of the Fredericksburg Christian School property upstream to and above the proposed crossings. No populations of any freshwater mussel species were found with the survey area. This visit was conducted on March 24, 1994.

The unnamed stream typically was a small, shallow stream. The width was approximately 2-2.5 meter wide and depth was 0.1 to 0.3 meters. The stream had a generally unsilted substrate consisting largely of sand, gravel, and small cobbles. It was obvious that the stream was in a high state of flow, although it was well below the bank levels. Water was very clear. I measured pH of the stream to be 5.0, which is quite acidic especially considering the high level of flow. Few fish were observed and no mollusks of any kind were seen. Given the acidic nature of this stream, its small size, and the lack of other mollusks, I believe that freshwater mussels including the dwarf wedgemussel (*Alasmidonta heterodon*) do not occur here. I have attached a figure to this letter indicating the area I searched relative to the proposed crossing.

Thank you for allowing me to be of service in this matter. If you have any further questions regarding this survey, please contact me.

Sincerely,



CC: Geoff Straughn, Spectrum Engineers, P.C.

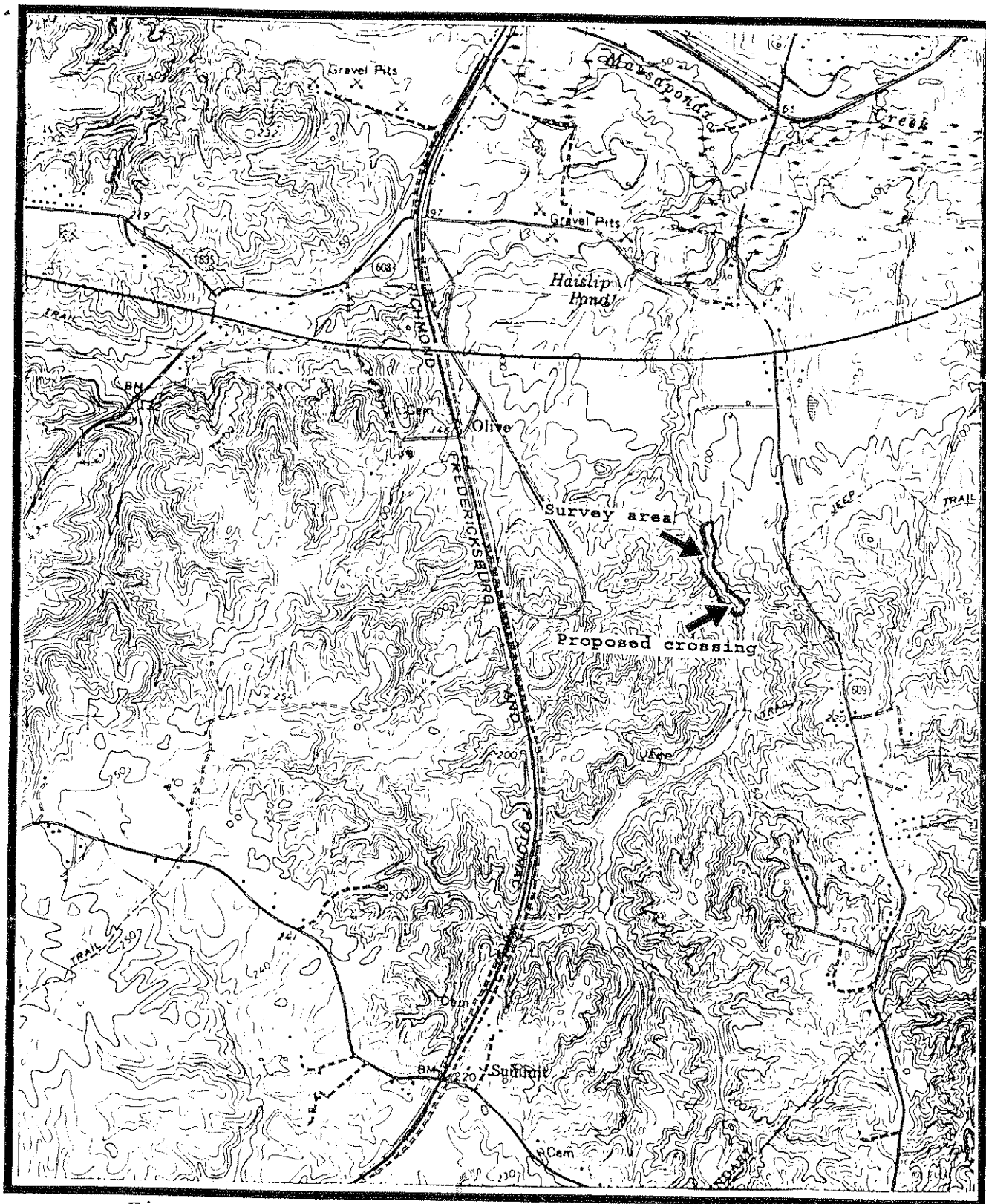


Figure 1. Mussel Habitat Survey in unnamed tributary of Massaponax Creek, Spotsylvania County, Virginia