



**Penn's Trail Environmental, LLC**  
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Mr. Steven N. Kline  
Regan Kline Cross, LLC  
7670 Queen Street, Suite 200  
Wyndmoor, PA 19038

October 15, 2021

**RE: Alluvial Soil Evaluation**  
**222 Church Road Property**  
**Cheltenham Township, Montgomery Co., PA**  
**PTE #5303**

Dear Mr. Kline:

Penn's Trail Environmental, LLC has completed an alluvial soil evaluation at the referenced property during the month of September 2021. The purpose of this evaluation was to determine the extent of any stream deposited (alluvial) soil at this site. This study indicated that alluvial deposits and/or soil are present and have been flagged in the field. The Alluvial soil conditions occur within the bank and channel limits of the stream and wetlands also delineated and flagged in the field. The limit of Alluvial soils concur with and are contained within the bank and channel of the stream and limits of flagged wetlands as shown on the attached site plan entitled "*Existing Features Plan*" last dated October 15, 2021 and created by Robert E. Blue Consulting Engineers.

A registered professional soil scientist using a hand-turned auger evaluated the site. Soil classification was determined based on criteria as established by the National Cooperative Soil Survey. Morphological characteristics of the soil including color, texture, structure, redoximorphic features and horizonation were evaluated. Those features were used to establish soil depth, parent material, and drainage classification. These are the primary classification criteria applied to define a specific soil series.

Features that indicate alluvial deposition are contrasting particle size (sand over silt), stratification (or layering) of sediment, contrasting coloring of sediment (light over dark), indications of buried material (particularly organic material that has not decayed), or contrasting lithology (rock type) of rock fragments in the sediment. These characteristics result from recent changes caused by the addition of new material to the profile as the result of flooding. The presence of these conditions indicates that streams are influencing or have influenced soil development. Again, the only areas with these specified morphological criteria are contained within the stream corridor and the wetland limits commensurate with the mapping as shown on the attached site plan.

Thank you for choosing our firm to work with you on this project. Should any questions arise, please do not hesitate to contact our office

Sincerely;  
**Penn's Trail Environmental, LLC**

Maureen McDermott  
Soil Scientist/Partner