Regarding the soil and water lab #2, plastic, microplastics, dirt, and fertilizer could influence 70 per cent of the agricultural land. During our research lab, we noticed how the main movement would be runoff which could pollute the water and cause many floods. We tested the soil to see the color of it and what it meant. We analyzed the soil on SIUE campus by the lake. The color of the soil was a dark faded brown with the code of 10YR 3/3.

According to the data, the data that has been looked over has patterns regarding the different soil types. As we analyzed, the soil was in fact hydric soil. Hydric soil is stated to be soil that is formed under conditions that have to do with water issues that can affect the color, smell and roots of the soil. If you don't know, soil plays an epic role in the ecosystem that helps to support animals and people. Based on the first sample of soil, the observations were the soil being gray at the bottom as clay was spread throughout the soil which means that it was low in oxygen or iron. The second soil sample was a very dark color and crumbled which means that it had more of an organic matter. Lastly, the third sample was very long, thick and had a brownish grey color that represented low in iron, oxygen or simply meant iron oxide.

When it comes to what may have influenced the patterns in the soil and water, a major impact comes from how precipitation is able to move and whether it seeps into the soil. If precipitation hits concrete on the surface, it will run off down the nearest incline towards a body of water. During this runoff, the water collects many pollutants that will end up in the final body of water. This affects the water quality as these pollutants usually are not healthy for the water nor its inhabitants. This can show up as a change in pH, DO, and TDS levels. On the contrary, when precipitation hits soil on the surface, the water seeps into the soil, affecting the color, softness and texture of the soil.



Field notes of site observations/soil probes

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Hypothesis on potential influencers of soil quality