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TBPE No. F-726

memorandum

To: Board of Directors
Harris County MUD 500

From: Truman C. Edminster, P.E.

Date: March 25, 2019

Subject: Source of Siltation in Harris County Municipal Utility District No. 500 Lakes

Silt deposits in lakes are a by-product of erosion. Particulate material conveyed by storm water is carried, in our case, into Harris County Municipal Utility District No. 500's (MUD 500) lakes. The lakes serve as a detention pond and stilling basin that will distribute silt throughout the lake.

The question has been asked, "Why are we already dredging the lakes; did the homebuilders cause this?" The answer is basically "no".

The primary source of silt in MUD 500's lakes is Cypress Creek, in particular the last two regional flood events: the Tax Day Flood and Hurricane Harvey. Massive quantities of storm water flowed into MUD 500's lakes from Cypress Creek. Silt was carried in suspension and was dispersed throughout the lakes.

When the storms passed and MUD 500's lakes drained, the silt material settled to the bottom of the lakes causing the silt deposits. Many residents may recall after Hurricane Harvey the massive amounts of silt on the banks of the lakes when the water surface level returned to normal.

From time to time residents may witness activities in Towne Lake that cause silt to be deposited into the streets or the lakes. So what can you do? You can contact Harris County. They are the enforcement agency for storm water compliance matters - not MUD 500. Harris County also may have the ability to assess fines for violations.

Please report all suspected storm water compliance violations directly to Harris County at 713-920-2831.