

Hogelin, Thomas G.

From: Dave Nicholson <dknicholson@q.com>
Sent: Wednesday, April 26, 2017 8:49 AM
To: Thomas Hogelin
Cc: Derek Johnson
Subject: Evaluation of Nutrient levels for O-29 and Latham I-02 Landfarms

Tom

For the O-29, ammonia is present at 67.5 mg/kg and nitrate is at 2.92 mg/kg, reflecting the shorter time period for the formation of nitrate at this site. Total nitrogen is present at approximately 2.3 times the ideal concentration of 30 mg/kg. Ortho-phosphate is present at 107 mg/kg, or about 5.35 times the ideal concentration of 20 mg/kg. The ratio of organic carbon, nitrogen, and phosphorous is 3,636:10:15, indicating excess phosphorous. No fertilizer should be applied to this landfarm this year.

For the Latham I-02, ammonia was not detected and nitrate is at 2.92 mg/kg, indicating a shortage of nitrogen. Ortho-phosphate is present at 18.6 mg/kg, or slightly below the ideal concentration of 20 mg/kg. The ratio of organic carbon, nitrogen, and phosphorous is 46,996:10:65.7., also demonstrating a shortage of nitrogen. Fertilizer should be applied to this landfarm in the same amount as previous applications.

For both landfarms, fulvic/humic acid may help nutrient bioavailability as we have discussed.

Dave

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