

Florida Sample Analysis

(Silt Stop Blend / Floc Log Applications)

Sample Location	Description	APS Application	Results and Special Instructions
8/8/05 Analysis by: LBS	Sample Type	Floc Log type	Reaction Time / NTU Reading
1 Johnson, Mirmiran & Thompson 615 Crescent Executive Ct. Suite 106 Lake Mary, FL 32746 407-833-9898 407-833-9899 fax J. Alexander George (Alex)	Soil & Water Sample City of Gainesville SE 12th St Reconstruct. Job # F03-541.00.02 pHi- 7.58 NTUi-313	706b 703d + 706b (used together) / 25-30 sec / 16.3 NTU 703d + 706b (duplex)	20-25 sec/ 26.3 NTU 20 sec + 20 sec/ 13.8 NTU
		Stabilization Type 705 powder	Spray or dry application

Note: This sample contains some swelling clays. It is difficult to clarify the water using the 706b Floc Log alone. Very low NTU values may be difficult to obtain using the logs alone as described above. **Mixing / reaction times will be very important when using the Floc Logs with the mixing being continuous for the time stated to obtain the best results.**

Duplex systems require the 703d Floc Log to be placed first in the system followed by the 706b. All logs should be at least 10 feet apart or less in a series (one after the other). Mixing / reaction times will be very important when using the Floc Logs listed above. The mixing must be continuous for the time stated to obtain the reported results. A mixing ditch, pipe or flume system may be used with either a pump or gravity flow to meet this requirement. Particulate formed may be captured by filtering through silt fence, mulch, straw or jute fabric after the mixing reaction has been completed. The dosage rate should be 25-35 GPM flow / each Floc Log placed in a series 5-10 feet apart in a row. The use of particle curtains may greatly increase settling efficiency with these Floc Logs.

Stabilization of the soil at the source may be obtained by spreading 20-40 pounds/acre of the 705 powder onto the soil surface (can be mixed with other additives such as seed, fertilizer, etc.) than covering the soil with straw, mulch or matting. If hydroseeding the 705 powder or may be added as a final additive to the normal mix. This will perform as a stabilizer for reducing clay movement into the runoff water and as a tackifier to hold the soil/organic matrix in place. **We highly suggest using both methods to assure best stormwater quality discharges.**

Areas where high water velocity may occur (ditch lines, swales, etc.) should be "soft armored" by placing "jute" matting flush to the ground surface than spreading the 705 powder (dry) over the jute. All Rock Checks should be covered with jute and the 705 powder applied to the jute. This will greatly reduce erosion in these areas and greatly increase water clarity.