

Excavation of Former Tannery Site

Problem: How to solidify very wet soil for transport without doubling or tripling waste volume?



Tannery Excavation Project.

Air temperature = 32-34° F

Very wet soil/sludge.

Excavation below water table.



Small, side pit dug into corner of large pit for sludge/polymer mixing.



Waste Lock[®] Polymer Addition

Polymer applied with plastic (coffee) cup to sludge surface...



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Mixing of Sludge & Polymer



More sludge is added to top of polymer/sludge mixture.

More polymer is added to fresh, wet sludge.

Clamshell bucket mixes sludge & polymer in side pit.



Removal of Solidified Sludge from Pit

The clamshell scooped solidified sludge from side mixing pit into 3 yard bucket of front loader.

Front loader set 3 yard loads on plastic sheet for additional absorbency time before loading.



Front loader then filled 30 yard dump truck for transport to treatment facility.



***Waste Lock*[®] Solidified Sludge**

Ready for Shipping



Final Result:

75 lbs of *Waste Lock*[®] added to approx. 30 tons of wet sludge. (Estimated weight of 50,000 lbs.)

Absorbency ratio of 800 X on weight basis.

Time for work: 2 hours.

Increase in waste weight or volume: *Negligible.*

