

WRG

**Monzeglio, Hope, NMENV**



**From:** Riege, Ed [Ed.Riege@wnr.com]  
**Sent:** Tuesday, April 27, 2010 1:22 PM  
**To:** Monzeglio, Hope, NMENV  
**Cc:** Cobrain, Dave, NMENV; Van Horn, Kristen, NMENV; Scott T. Crouch; Rajen, Gaurav  
**Subject:** RE: closure of the aeration lagoons

Hope:  
Sorry for the delay in responding to your questions.

When dewatering the aerations lagoons and Evaporation Pond 1, we would anticipate a volume reduction of 5 to 30%. This is compared to a potential volume reduction of 10 to 60% with bioremediation. Obviously, the pilot study will provide better information on the effectiveness of bioremediation.

We define "dewatering" as simply a reduction in the percent moisture through air drying aided by in-situ mechanical mixing. Mechanical mixing would be used to help dewater the entire thickness of sludge in the impoundments, recognizing that drying is only taking place in the upper portion of the sludge. When referring to a "reduction in volume", we are discussing a reduction in total volume of material that would be required to be disposed of off-site.

I hope this addresses your questions, please let me know if you require further information.

Ed

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*Safety starts with "S", but always begins with "You"*

**From:** Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]  
**Sent:** Monday, March 15, 2010 9:55 AM  
**To:** Riege, Ed  
**Cc:** Cobrain, Dave, NMENV; Van Horn, Kristen, NMENV; Scott T. Crouch  
**Subject:** closure of the aeration lagoons

Ed  
In reference to the Corrective Measures Implementation Work Plan Solid Waste Management Unit (SWMU) No. 1 Wastewater Aeration Lagoons, can you provide me with the following information: when dewatering Aeration Lagoon 1, 2 and Evaporation Pond 1 would occur, what is the anticipated reduction in volume in each lagoon and pond from just dewatering verses the reduction in volume from dewatering and use of the proposed bioremediation? Also include how Gallup defines dewatering (e.g., volume reduction of sludges and to what depth, volume reduction of contaminants) and how Gallup defines "reduction in volume." Does it mean reduction in actual volume or just reduction in volume of hazardous waste?  
Thanks  
Hope

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