



OGMCOAL DNR &lt;ogmcoal@utah.gov&gt;

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**Fwd: 0150019 Cottonwood reclamation fertilizer applied**

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**Priscilla Burton** <priscillaburton@utah.gov>  
To: OGMCOAL DNR <ogmcoal@utah.gov>

Mon, Nov 27, 2017 at 3:06 PM

----- Forwarded message -----

From: **Oakley, Dennis** <Dennis.Oakley@pacificorp.com>  
Date: Fri, Nov 17, 2017 at 12:00 PM  
Subject: RE: Cottonwood Reclamation Inspection Report  
To: Priscilla Burton <priscillaburton@utah.gov>

Fertilizer application....

Ammonium Nitrate: 30–50 lbs/ac

Triple Phosphate: 30-40 lbs/ac

*Dennis Oakley*

Senior Mine Engineer



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[dennis.oakley@pacificorp.com](mailto:dennis.oakley@pacificorp.com)

**From:** Priscilla Burton [mailto:[priscillaburton@utah.gov](mailto:priscillaburton@utah.gov)]  
**Sent:** Thursday, November 16, 2017 6:23 PM  
**To:** Oakley, Dennis <[Dennis.Oakley@pacificorp.com](mailto:Dennis.Oakley@pacificorp.com)>; OGMCOAL DNR <[ogmcoal@utah.gov](mailto:ogmcoal@utah.gov)>  
**Subject:** [INTERNET] Cottonwood Reclamation Inspection Report

**\*\* STOP. THINK. External Email \*\***

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Hello Dennis,

I have attached the report of my site visit on 11/08/2017.

The high pH values that you have recorded are very likely reflecting the high calcium content of the subsoil and its dominance on the soil exchange. Since there is no correlation between EC and SAR, we can not know the relationship of sodium to calcium, but gypsum as a soil amendment would not be useful in any case, since that would add further calcium. You mentioned that an application of ammonium phosphate and ammonium nitrate are included with the hydromulch. This will lower the pH through

the conversion of ammonium to nitrate in the soil. Could you tell me the rate of application per acre?

Let me know what values you record after you re-calibrate your meter with fresh buffer solutions. If the problem persists, I would recommend analysis of the soil sample for SAR, pH, EC to diagnose whether there is a sodic problem and N/P/K to determine if the fertilizer application is adequate or recommended.

Priscilla Burton, MS, CPSSc