

From: [Lujan - DNR, Carlos](#)
To: [Stuart Hall](#)
Subject: Re: Piceance Energy Hawxhurst 24-09 Spill Sampling
Date: Wednesday, June 17, 2015 11:32:41 AM

Stuart,

I apologize for the delay in responding to your email. I was out of town since last Thursday and now I am trying to catch up.

No need to conduct additional sampling. High SAR on the pad surface is not an issue at this point. On the contrary, it will help control weeds. And most likely during final reclamation, pad surface will be covered with clean soil to recontour.

Let me know if there is anything else to discuss. I will be in and out doing some inspections this week but will be in my office otherwise.

Thanks,
Carlos

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On Fri, Jun 12, 2015 at 10:32 AM, Stuart Hall <shall@olssonassociates.com> wrote:

Hi Carlos- Attached is the data for the follow-up sampling for the Hawxhurst 24-09 spill. I have also included a summary of the soil data. I have a question regarding the sampling that you requested for the spill path. The data shows that SAR and EC are elevated for all of the samples collected along the spill pad on the pad surface. However, I would anticipate to have high SAR and EC on the pad surface regardless of the spill because of the Magnesium Chloride used to construct the pad. Additionally, these constituents would not pose an issue on the pad surface until the reclamation stage. Do you anticipate the requirement of any additional sampling or excavation for this spill? Please give me a call to discuss when you have a chance.

Thank you

Stuart Hall | Olsson Associates

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