

From: "Cox, Al (Grants)" <ACox@barrick.com>
To: "Ron Linton" <RCL1@nrc.gov>
Date: 09/12/2007 1:27:55 PM
Subject: RE: Evap pond question

Ron,

Yes, we have been 'dosing' the ponds for several years. Odor is a problem seasonally, and we have been trying to manage that the best we can. It certainly has improved since the 2001-02 timeframe; but, it must be realized by all that the odor cannot be eliminated - it is brine-type water with high TDS and smells very similar to what you see in tidal esuarine environments in ocean embayments, etc.

What we dose with is a combination of copper sulfate and citric acid. The citric acid, I am told, keeps the copper sulfate bio-available for algae and therefore keeps algae bloom down (kills algal growth) when the water temperature rises in the ponds during the summer months. This chemical combination, obviously, acts as an algicide.

Any other questions, please advise.

Thanks.....Al

-----Original Message-----

From: Ron Linton [mailto:RCL1@nrc.gov]
Sent: Wednesday, September 12, 2007 10:46 AM
To: Cox, Al (Grants)
Cc: Kump, Dan (Grants)
Subject: Evap pond question

Al:

What does HMC do to help eliminate odors from the evaporation ponds. Is there something that is added to control odor, etc.

Ron

CC: "Kump, Dan (Grants)" <dkump@barrick.com>

Mail Envelope Properties (46E8218E.208 : 4 : 45576)

Subject: RE: Evap pond question
Creation Date 09/12/2007 1:27:04 PM
From: "Cox, Al (Grants)" <ACox@barrick.com>
Created By: ACox@barrick.com

Recipients

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RCL1 (Ron Linton)

barrick.com
dkump CC (Dan (Grants) Kump)

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