

Re: KRS – artificial weathering

Source: <http://sci.tech–archive.net/Archive/sci.archaeology/2004–09/2471.html>

From: Eric Stevens (*eric.stevens_at_sum.co.nz*)

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On Mon, 20 Sep 2004 06:45:44 GMT, "zolota" <zolota3@REMOVEshaw.ca> wrote:

>
> "Daryl Krupa" <icycalmca@yahoo.com> wrote in message
> news:c70365ef.0409191839.57b928de@posting.google.com...
>> "zolota" <zolota3@REMOVEshaw.ca> wrote in message
>> news:<YX92d.441656\$gE.137762@pd7tw3no>...
>>
>> <snip>
>>
>>> As I said before, sulphuric acid cannot eat a calcite crystal.
>>> I also assume that you know that.
>> <snip>
>>
>> Yes; I was thinking about protecting the calcite from the
>> effects of the sulfuric acid sufficiently to avoid
>> the possibility of forming a gypsum layer,
>> and so avoid detection of application
>> of the sulfuric acid.
>
> True, but agogle on minnesota, groundwater, so4 gives over 2,300 hits and i
> quote one:
> Sulfate (SO4) occurs naturally in most of Minnesota's groundwater, with
> higher levels common in the western part of the state. At high levels,
> sulfate can give water a bitter or astringent taste and can have laxative
> effects. This brochure provides a basic discussion of sulfate in well water
> and discusses action you can take to minimize it effects.

Apparently the local soil is a limey till with pH of 7.5 [Wolters 2003].

>
> <http://www.health.state.mn.us/divs/eh/wells/sulfate.html>
>
> In other words, finding a calcite crystal with a gypsum surface is entirely
> logical in Kensington so could anyone say that it's presence is
> questionable? They could say that only if they have tested other local rocks
> that contain calcite and found gypsum to be absent. By the same reasoning i

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>would expect the same depth or nature of sulphate in calcite on both the
>ancient back of the KRS and the inside of the letters.

>

>>

>>> A good page that covers several of the topics is available.

>>> Note the coment about oxidation of biotite mica.

>>>

>>> <http://gpc.edu/~pgore/geology/geo101/weather.htm>

>>

>> Yes, I agree, good background, and I've noted that page already.

>> There is also this one, which Hmmm, I wonder, might have

>> inspired Wolter to test slate tombstones instead of marble ones

>> (marble, at least, is similar in composition to the calcite

>> on / in the KRS):

>>

>> <http://www.uwgb.edu/dutchs/EarthSC202Slides/soilslid.htm>

>>

>>> Than you, thank you very much.

>>

>> <http://homepages.compuserve.de/thkoern/elvis.gif>

>>

>> Roll with them Stones . . .

>>

>> <http://www.omelete.com.br/imagens/televisao/news/simpsons/rock.jpg>

>>

>> http://figures.nohomers.net/Customs/Custom_Bart_as_Elvis.JPG

>>

>> Daryl Krupa

>> (still playing D.A., still on the case, awaiting deposition)

>

>Of gypsum?

>

>Z

>

Eric Stevens