

On Nov 11, 2021, at 9:44 AM, Laura Green <[REDACTED]> wrote:

John: please substitute this wording in the relevant section of your draft document ...

As indicated above, the analytical chemical results show that the proposed synthetic field-materials contain smaller (indeed, typically undetectable) concentrations of lead and other heavy metals than are found on the existing dirt and natural grass fields. The data indicate that the proposed field-materials will not contaminate groundwater, and will not affect childrens' health or wellbeing.

Please note that small concentrations of a perfluorinated copolymer, PVDF-HFP, are used in manufacturing the synthetic grass blades. This fluoropolymer is similar to that used in surgical sutures, implantable meshes, and many other materials, because it is biocompatible and inert. This copolymer does not dissolve in rainwater; will not contaminate groundwater, surface water, or ambient air; and will not permeate skin or clothing. Such insoluble copolymers are thus distinct from water soluble PFOA, PFOS, and other small PFAS and precursors thereto, such as are present in many aqueous film forming foams used for firefighting, which have contaminated some groundwaters locally, nationally, and internationally.

with thanks and best regards,

Laura

Laura C. Green, Ph.D., D.A.B.T.

President & Senior Toxicologist

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[https://link.edgepilot.com/s/abc624dd/Jc16xrBscK2NUqzkmzvbAw?](https://link.edgepilot.com/s/abc624dd/Jc16xrBscK2NUqzkmzvbAw?u=http://www.greentoxicology.com/)
[u=http://www.greentoxicology.com/](http://www.greentoxicology.com/)

[REDACTED] (cell)

On Thu, Nov 11, 2021 at 8:59 AM Diane O'Neil <[REDACTED]> wrote:

Please note that small concentrations of a perfluorinated copolymer, PVDF-HFP, are used in manufacturing the synthetic grass blades.

I feel there should be a sentence after the sentence above that states something like, the same process and materials are used to make surgical sutures, etc.....

We really need to explain this in layman's terms, and we really need to push how safe these materials are.

Just my two cents.

From: Laura Green <[REDACTED]>
Sent: Thursday, November 11, 2021 7:47 AM
To: John McMeeking <[REDACTED]>
Cc: Elizabeth H. [REDACTED]; Diana O'Neil <[REDACTED]>; Michael Horton <[REDACTED]>; Mandy Vasil <[REDACTED]>; Marie McNeil <[REDACTED]>; Kimberly Kubisch <kubischk@nps.gov>; [REDACTED]; Logan [REDACTED]; [REDACTED]; David Fredericks <[REDACTED]>; Daniel Bartlett <[REDACTED]>; [REDACTED]; Nat Lowell <[REDACTED]>; Ken Beaugrand <[REDACTED]>; [REDACTED]; Jana Duarte <[REDACTED]>; Sam Aloisi <[REDACTED]>; Tom Hanlon <[REDACTED]>; Jamie Foster <[REDACTED]>; Mark Willett <[REDACTED]>; Jason Bridges <[REDACTED]>; Vaughan Machado <[REDACTED]>; Tom Garrette <[REDACTED]>; TJ Alenore <[REDACTED]>; Ernie Strang <[REDACTED]>; [REDACTED]; Nick Vaughn <[REDACTED]>; Richard Webb <[REDACTED]>; [REDACTED]; Dr. Laura Green <[REDACTED]>
Subject: Re: NPS - CWMP Project Description & HDC Update

Thank you kindly, John, for sharing this very nice draft document. I've suggested a few changes. Please see attached.

(Please note that because I translated the .pdf into a Word .doc, some formatting may have changed ...)

with thanks again and best regards,

Laura

Laura C. Green, Ph.D., D.A.B.T.

President & Senior Toxicologist