

organic fluorine

Laura Green <laura.carolyn.green@gmail.com>

Sat 2/27/2021 6:05 AM

To: Alex Elvin <elvin@mvcommission.org>; Adam Turner <turner@mvcommission.org>;

Dear Alex and Adam,

It's unfortunate that Tetra Tech, HW, and I have not been working together. Had we been, I could have let them know, for example, that the source of the organic fluorine in the turf is an inert fluoropolymer similar to what's used in medical-grade, biocompatible materials such as surgical sutures and skin-wearable sensors ... perhaps you can pass along this information.

with best regards,
Laura

Laura C. Green, Ph.D., D.A.B.T.
President & Senior Toxicologist

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Fwd: Brock Fill and Brock YSR testing data

Laura Green <laura.carolyn.green@gmail.com>

Thu 2/25/2021 2:00 PM

To: Dan Sawyer <dsawyer@brockusa.com>; Lucy Morrison <morrison@mvcommission.org>; Richie Smith <rsmith@mvyps.org>; Kimberly Kirk <kimberly.kirk@mvyps.org>; Kris O'Brien <vineyardkris@comcast.net>; Sullivan Joe <jsullivan@dpi-boston.com>;

Cc: Alex Elvin <elvin@mvcommission.org>; Adam Turner <turner@mvcommission.org>; Chris Huntress <chris@huntressassociates.com>;

Dear Dan and others,

The results of both the total fluorine (TF) test (it was not in fact a total organic fluorine test, although that's what Tetra Tech asked Alpha Analytical to run ... doesn't matter, though ...) and the total oxidizable precursors (TOP) test are (i) not unexpected and in any event are (ii) entirely irrelevant.

The former tests for **both** fluorine and fluoride ... and the largest "result," which was 70 ppm, is simply **F of any form** ... as you may know, toothpaste intentionally contains about 1,000 ppm of fluoride, for example ... and if one were to analyze for total F in any **topsoil**, for example, one would find much more ... there was zero sensible reason to run this test ... as for the TOP test, it too is meaningless ... this test is run at pH greater than 12 -- which is essentially Drano -- and at 185 degrees F ... so, again, it's an entirely needless and irrelevant test and set of test-results ... and, again, topsoil throughout the Western world has lots more TOP in it than any of the synthetic fields materials or Brockfill at issue ... so, I wouldn't waste my time on this, were I you ...

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Re: Thoughts from the most recent MVC hearing on the synthetic field project.

Laura Green <laura.carolyn.green@gmail.com>

Thu 2/25/2021 9:36 AM

To: Kimberly Kirk <kimberly.kirk@mvyps.org>;

Cc: Laura Green <Green@greentoxicology.com>; Richie Smith <rsmith@mvyps.org>; Terry Donahue <tjd2650@gmail.com>; Chris Huntress <chris@huntressassociates.com>; Joseph Sullivan <JSullivan@chacompanies.com>; Mike Taus <mvmiketaus@gmail.com>; Kris O'Brien <vineyardkris@comcast.net>; Adam Turner <turner@mvcommission.org>; Ron <ron.myrick@tetrattech.com>; Alex Elvin <elvin@mvcommission.org>;

As you know, as a toxicologist, the environmental toxin I care most about with regard to children's health is lead (Pb). In that regard, I was alarmed to discover how few children in Oak Bluffs, for example, are screened for their blood Pb-levels – despite the well-known **legal and medical requirements** for having such screening performed for **every** child who enters daycare, pre-school, and kindergarten. You can see this for yourself by using the Massachusetts Environmental Public Health Tracking program, available at https://matracking.ehs.state.ma.us/Health-Data/Childhood_Blood_Lead_Levels.html Parents of young children in some MV towns do much better than those in Oak Bluffs ... but the fact that **any** town in the Commonwealth leaves so many of its young children unscreened is unconscionable, especially given the ubiquity of antique furniture, older homes, and other sources of leaded paint (such as some kinds of pottery) prevalent on MV and elsewhere throughout New England ...

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On Sat, Feb 20, 2021 at 1:17 PM Kimberly Kirk <kimberly.kirk@mvyps.org> wrote:

Hi Laura,

Thank you for sharing these thoughts. It has bothered me for some time that the lab results were not discussed prior to public comment. It just didn't make sense because inevitably those issues would be raised. I look forward to those results being shared and explained at the next meeting to put some of those issues to rest.

You make an excellent point on Title IX, one that should be raised.

Best regards,
Kimberly Kirk

Sent from my iPhone

On Feb 20, 2021, at 8:13 AM, Laura Green <laura.carolyn.green@gmail.com> wrote:

Dear Richie *et al.*,

Listening during the most recent MVC hearing on the synthetic field project, I had the following thoughts.

First, I think it unfortunate that the actual test-data (available since last December) have yet to be discussed. Because of this, some people seem to still be under the impression that the proposed synthetic field-system will somehow be a significant source of PFAS to, presumably, the aquifer and/or to players or coaches. As you know, this is not true. There's undoubtedly more PFAS in MV topsoils than in these products (see my January slides ...). Ditto for potentially toxic metals, such as arsenic and lead ...

More generally, it is odd to me that this project is so controversial. Once you decided to not use recycled tires as infill, the "environmental/health" discussion should have ceased.

Which brings up the irony that several citizens persevere on whether and how you will recycle the carpet at the end of its life, while at the same time they themselves would never allow recycled tires to be part of MV fields or, presumably, playgrounds ...

It's also striking that your opponents are mostly women ... But think about it: if they had been born in the early 1950's or earlier, they would have been in high school, as I was, prior to the passing of Title IX of the amended Education Act, which, as you know, finally began to grant equity to girls (and to blind students) with regard to education opportunities, **including educational athletics**. This amended Act, passed in 1972, has resulted in massive increases in the number of girls (finally!) being able to play any number of sports at the high school level and beyond ... and this, of course, is the primary reason that new athletic fields are needed (I gather that the MVRHS was constructed in the 1950's). Boys in high school have always had fields to play football on ... while girls, of my generation, were limited to being, um, cheerleaders.

Finally, although it was cool to hear from Coach Amy Griffin, it seems to me that preferring to play soccer on grass as opposed to plastic is fine, but not really the point. Think of it like tennis: there are grass tennis courts, various kinds of clay tennis courts, and even harder tennis courts with various acrylic surfaces ... you as a player probably prefer one or two over the others ... but if you are going to become a serious tennis player, you need to learn to play on them all, don't you? (Billy Jean King, one of my personal heros, certainly thought so ...).

with best regards,
Laura

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Re: TOF and TOP tests?

Laura Green <laura.carolyn.green@gmail.com>

Mon 2/15/2021 11:36 AM

To: Myrick, Ron <ron.myrick@tetrattech.com>;

Cc: Green@greentoxicology.com <Green@greentoxicology.com>; Alex Elvin <elvin@mvcommission.org>; Chris Huntress <chris@huntressassociates.com>; Richie Smith <rsmith@mvyps.org>; Terry Donahue <tjd2650@gmail.com>; Kimberly Kirk <kimberly.kirk@mvyps.org>; Edmund Crouch <crouch@greentoxicology.com>;

Hi, Ron. Might you please ask Alpha Analytical laboratories to reference/cite the specific analytical method they used to perform their total oxidizable precursor assay? As you may know, their report does not specify this; there is no U.S. EPA method for this assay; and though I could guess at how they did this assay -- there are several relevant publications in the literature -- I'd like to know for certain. In particular, I'd like to know at what pH they ran the assay (pH 12? higher?). A simple citation to a published method should suffice.

with thanks and best regards,
Laura

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On Fri, Feb 5, 2021 at 3:10 PM Myrick, Ron <ron.myrick@tetrattech.com> wrote:

Yes Laura,

We distributed the attached with the analysis plan, and we will present in our report the results represent both organic and inorganic fluorine in our report.

Thank you,

Ron

Ronald E. Myrick, Jr., P.E., L.S.P. | Vice President

Infrastructure Northeast (INE)

Direct: 508-786-2363 | Mobile: 508-561-6893

ron.myrick@tetrattech.com

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From: Laura Green <laura.carolyn.green@gmail.com>

Sent: Friday, February 5, 2021 3:01 PM

To: Myrick, Ron <ron.myrick@tetrattech.com>

Cc: Alex Elvin <elvin@mvcommission.org>; Chris Huntress <chris@huntressassociates.com>; Richie Smith <rsmith@mvyps.org>; Terry Donahue <tjd2650@gmail.com>; Kimberly Kirk <kimberly.kirk@mvyps.org>

Subject: Re: TOF and TOP tests?

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Hi, Ron. For what it's worth, the way I read it, the recent fluorine assay that was performed by the subcontracted lab (Galbraith) was **not** an analysis for "total organic fluorine," but was instead an analysis that captures **both** organic fluorine **and** inorganic fluoride.

As such, the results are even less informative than they might otherwise have been ... Regardless, as you know, the analyses that had already been performed, back in December 2020, for PFAS *per se*, are the ones that **do** provide the information that the Commissioners apparently sought ...

I'd be happy to discuss.

with best regards,

Laura

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

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On Fri, Feb 5, 2021 at 9:53 AM Myrick, Ron <ron.myrick@tetrattech.com> wrote:

That is correct Alex. We have requested the GLI revise a typo as well (BLOCK SHOCK PAD should be BROCK SHOCK PAD).

Ron

Ronald E. Myrick, Jr., P.E., L.S.P. | Vice President

Infrastructure Northeast (INE)

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From: Alex Elvin <elvin@mvcommission.org>

Sent: Friday, February 5, 2021 9:48 AM

To: Green@greentoxicology.com

Cc: Myrick, Ron <ron.myrick@tetrattech.com>; Chris Huntress <chris@huntressassociates.com>

Subject: Re: TOF and TOP tests?

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I meant to mention that the "L2100733-O2X" sample represents the Brock Shock Pad that was submitted by Alpha after GAI requested additional sample material due to the low density. Ron, please correct me if I'm wrong.

Thanks,

Alex

Alex Elvin

Development of Regional Impact (DRI) Coordinator

Martha's Vineyard Commission

The Olde Stone Building

33 New York Avenue

Oak Bluffs, MA 02557

(413) 884-3289

From: Laura Green <laura.carolyn.green@gmail.com>

Sent: Friday, February 5, 2021 9:18 AM

To: Alex Elvin

Cc: Green@greentoxicology.com; Ron

Subject: Re: TOF and TOP tests?

Thanks in return.

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

President & Senior Toxicologist

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On Fri, Feb 5, 2021 at 9:05 AM Alex Elvin <elvin@mvcommission.org> wrote:

Hi Laura,

Sorry for the delay. Here are the results from Alpha.

Best,

Alex

Alex Elvin

Development of Regional Impact (DRI) Coordinator

Martha's Vineyard Commission

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Oak Bluffs, MA 02557

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From: Laura Green <laura.carolyn.green@gmail.com>

Sent: Friday, February 5, 2021 6:42 AM

To: Alex Elvin

Cc: Ron

Subject: TOF and TOP tests?

Good morning, Alex.

Might you please let me know when I'll be able to review these test-results?

with thanks and best regards,

Laura

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

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Re: TOF and TOP tests?

Laura Green <laura.carolyn.green@gmail.com>

Fri 2/5/2021 9:58 AM

To: Alex Elvin <elvin@mvcommission.org>;

Cc: Green@greentoxicology.com <Green@greentoxicology.com>; Ron <ron.myrick@tetrattech.com>; Chris Huntress <chris@huntressassociates.com>;

Yes, thank you, I understand this from the notes to the report that you kindly forwarded to me this morning.

As I have been indicating since mid-January, neither the TOP nor the TOF, **when performed on materials such as these**, can provide, and in fact have not provided, any usable information.

And, again, had the lab(s) been asked to run these same tests on field soils, **higher** concentrations would have been detected.

I continue to be surprised that tens of thousands of dollars have been spent, and yet the Commissioners still have not been told what these tests and test-results do and do not signify.

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On Fri, Feb 5, 2021 at 9:48 AM Alex Elvin <elvin@mvcommission.org> wrote:

I meant to mention that the “L2100733-O2X” sample represents the Brock Shock Pad that was submitted by Alpha after GAI requested additional sample material due to the low density. Ron, please correct me if I'm wrong.

Thanks,

Alex

Alex Elvin
Development of Regional Impact (DRI) Coordinator
Martha's Vineyard Commission
The Olde Stone Building
33 New York Avenue
Oak Bluffs, MA 02557
(413) 884-3289

From: Laura Green <laura.carolyn.green@gmail.com>
Sent: Friday, February 5, 2021 9:18 AM
To: Alex Elvin
Cc: Green@greentoxicology.com; Ron
Subject: Re: TOF and TOP tests?

Thanks in return.

Laura C. Green, Ph.D., D.A.B.T.
President & Senior Toxicologist

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On Fri, Feb 5, 2021 at 9:05 AM Alex Elvin <elvin@mvcommission.org> wrote:

Hi Laura,

Sorry for the delay. Here are the results from Alpha.

Best,

Alex

Alex Elvin
Development of Regional Impact (DRI) Coordinator
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(413) 884-3289

From: Laura Green <laura.carolyn.green@gmail.com>
Sent: Friday, February 5, 2021 6:42 AM
To: Alex Elvin
Cc: Ron
Subject: TOF and TOP tests?

Good morning, Alex.
Might you please let me know when I'll be able to review these test-results?

with thanks and best regards,
Laura

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RE: Synthetic field test results

Chris Huntress <chris@huntressassociates.com>

Thu 1/28/2021 12:44 PM

To: Alex Elvin <elvin@mvcommission.org>; Green@greentoxiology.com <Green@greentoxiology.com>;

Cc: Myrick, Ron <ron.myrick@tetrattech.com>; Richie Smith <rsmith@mvyps.org>; Kimberly Kirk <kimberly.kirk@mvyps.org>; Adam Turner <turner@mvcommission.org>;

Thanks Alex, I'm all set...I appreciate your help.

Chris

From: Alex Elvin <elvin@mvcommission.org>
Sent: Thursday, January 28, 2021 12:36 PM
To: Chris Huntress <chris@huntressassociates.com>; Green@greentoxiology.com
Cc: Myrick, Ron <ron.myrick@tetrattech.com>; Richie Smith <rsmith@mvyps.org>; Kimberly Kirk <kimberly.kirk@mvyps.org>; Adam Turner <turner@mvcommission.org>
Subject: Re: Synthetic field test results

Yes, we had also communicated with HW about doing this in two phases. I can provide documentation if you'd like.

Alex

Alex Elvin
Development of Regional Impact (DRI) Coordinator
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From: Chris Huntress <chris@huntressassociates.com>
Sent: Wednesday, January 27, 2021 3:10 PM
To: Green@greentoxiology.com; Alex Elvin
Cc: Myrick, Ron; Richie Smith; Kimberly Kirk; Adam Turner
Subject: RE: Synthetic field test results

Alex, for the record, it was always my understanding that the decision to move forward with TOP and TOF would be made AFTER the first round of test results were complete and reviewed. It appears that you are now relying on the original recommendation from HW back in October. This is fine, but it is different than we had discussed with both you and Adam.

Chris
Christian C. Huntress, RLA
President

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www.sportsfieldaerials.com

From: Laura Green <laura.carolyn.green@gmail.com>
Sent: Wednesday, January 27, 2021 3:07 PM
To: Alex Elvin <elvin@mvcommission.org>
Cc: Green@greentoxicology.com; Myrick, Ron <ron.myrick@tetrattech.com>; Chris Huntress <chris@huntressassociates.com>; Richie Smith <rsmith@mvyps.org>; Kimberly Kirk <kimberly.kirk@mvyps.org>; Adam Turner <turner@mvcommission.org>
Subject: Re: Synthetic field test results

Thank you kindly for your reply.
No, HW is not correct.

Laura C. Green, Ph.D., D.A.B.T.
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On Wed, Jan 27, 2021 at 3:04 PM Alex Elvin <elvin@mvcommission.org> wrote:

Hi Laura,

We had agreed to do the regular PFAS testing first, and then the TOF and TOPA in a second phase, which is why those tests are still underway. It is our understanding from HW that this approach is extremely common. We expect to have the results this week.

Thanks,

Alex

Alex Elvin
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From: Laura Green <laura.carolyn.green@gmail.com>
Sent: Tuesday, January 26, 2021 4:41 PM
To: Alex Elvin
Cc: Myrick, Ron; Green@greentoxicology.com; Chris Huntress; Richie Smith; Kimberly Kirk
Subject: Re: Synthetic field test results

It appears that:

- (i) HW made their recommendation to you (including for TOF and TOP) in mid-October;
 - (ii) the samples were collected in late November;
 - (iii) all analyses were performed in December;
- yet
- (iv) you note, in your annotation to the lab spreadsheet, that the TOF and TOP tests are still "still underway".

As I have explained, TOF and TOP test-results cannot provide useful information. You already know what you need to know from the PFAS tests done in December.

Perhaps HW agree, and this is why these tests remain "still underway"?

At your convenience, please advise.

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On Tue, Jan 26, 2021 at 3:49 PM Alex Elvin <elvin@mvcommission.org> wrote:

Hi everyone,

Please see the attached:

Alpha test result data (all spreadsheets)

Horsley Witten recommendation for TOF and TOPA (see "HW final comments" question 2.A.1)

Thanks,

Alex

Alex Elvin
Development of Regional Impact (DRI) Coordinator
Martha's Vineyard Commission
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33 New York Avenue
Oak Bluffs, MA 02557
(413) 884-3289

From: Laura Green <laura.carolyn.green@gmail.com>
Sent: Monday, January 25, 2021 5:37 PM
To: Myrick, Ron
Cc: Green@greentoxiology.com; Alex Elvin; Chris Huntress; Richie Smith
Subject: Re: Synthetic field test results

Well, not quite. You might want to refer to the diagrams that show the compacted stone drainage system underneath the pad ... yes, of course rainwater will get through the synthetic field-system, but, for several reasons, considering the solid synthetic pad to be "comparable" to surface soil, even with regard to groundwater protection, for example, would not be accurate. Of course, this is why the synthetic leachate testing was performed ... though, again, the fact that leachate testing was not done on any soils in the other fields is questionable.

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On Mon, Jan 25, 2021 at 3:40 PM Myrick, Ron <ron.myrick@tetrattech.com> wrote:

I agree that the shockpad is isolated from direct contact. However, I believe that it would still be contacted by precipitation.

Ron

**Ronald E. Myrick, Jr., P.E., L.S.P. | Vice President
US Infrastructure Division**
Direct: 508-786-2363 | Mobile: 508-561-6893
ron.myrick@tetrattech.com

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From: Laura Green <laura.carolyn.green@gmail.com>
Sent: Monday, January 25, 2021 3:37 PM
To: Myrick, Ron <ron.myrick@tetrattech.com>
Cc: Laura Green <Green@greentoxicology.com>; Alex Elvin <elvin@mvcommission.org>
Subject: Re: Synthetic field test results

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Nor is it appropriate to compare concentrations in shockpad, e.g., to soil screening levels. But, you know that. Does HW??

On Mon, Jan 25, 2021, 3:27 PM Myrick, Ron <ron.myrick@tetrattech.com> wrote:

Laura,

The data is presented in a standard Alpha Excel template that compares the samples to soil standards. For that reason, the tab states soil. It is understood that the samples are not soil, and our deliverable will present the data differently and clearly indicate that the samples are solids or materials.

Ron

**Ronald E. Myrick, Jr., P.E., L.S.P. | Vice President
US Infrastructure Division**
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ron.myrick@tetrattech.com

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From: Laura Green <laura.carolyn.green@gmail.com>
Sent: Monday, January 25, 2021 3:15 PM
To: Myrick, Ron <ron.myrick@tetratech.com>
Subject: Fwd: Synthetic field test results

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President & Senior Toxicologist

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

From: Alex Elvin <elvin@mvcommission.org>
Date: Thu, Jan 21, 2021 at 3:23 PM
Subject: Synthetic field test results
To: Laura Green <laura.carolyn.green@gmail.com>
Cc: Chris Huntress <chris@huntressassociates.com>, Smith Richie <rsmith@mvyps.org>

Hi Laura,

I know there was some back and forth between Horsley Witten and Tetra Tech about the synthetic field test results, so I wanted to make sure you had the latest data from the lab, which

is attached here. Let me know if you have any questions.

Thanks,

Alex

Alex Elvin
Development of Regional Impact (DRI) Coordinator
Martha's Vineyard Commission
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