Message

From: Qian, Yaorong [qian.yaorong@epa.gov]
Sent: 6/16/2021 2:08:44 PM
To: Kalmykova, Yulia [YKalmykova@trccompanies.com]; Nguyen, Thuy [Nguyen.Thuy@epa.gov]
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

Hi Yulia,

Yes, we analyzed the remaining samples twice and we did not find any PFAS in all the equipment and field blanks. We also did not find any PFAS in the remaining five samples (Aqua Zenivex E20 Lot 1 and Lot 2, Suspend SC and Suspend PZ, Vectobac 12AS).

However, we are not happy with the spike recovery from the spiked matrix sample for many compounds. The recovery for some compounds are high and for some are low. We are still exploring different ways to process the samples with high amount surfactants to achieve good recoveries.

I will let you know after we have a good method and the samples are re-analyzed.

Sorry about the slow progress.

Thanks,

Yaorong

From: Kalmykova, Yulia <YKalmykova@trccompanies.com>
Sent: Tuesday, June 15, 2021 5:32 PM
To: Qian, Yaorong <qian.yaorong@epa.gov>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

Hi Yaorong,

Just checking if you have any updates on the analyses. Please let me know.

Thank you!

Yulia Kalmykova, Ph.D.
Senior Project Manager

TRC

2 Liberty Square, Boston, MA 02109
Phone: 857.301.3932

From: Qian, Yaorong <qian.yaorong@epa.gov>
Sent: Tuesday, May 25, 2021 11:22 AM
To: Kalmykova, Yulia <YKalmykova@trccompanies.com>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hi Yulia,

Thanks for checking. It is on my to do list this week. Sorry about the delay.

Yaorong

From: Kalmykova, Yulia <YKalmykova@trccompanies.com>
Sent: Tuesday, May 25, 2021 10:44 AM
To: Qian, Yaorong <qian.yaorong@epa.gov>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

Hi Yaorong,

I was just wondering of you analyzed more samples since your e-mail below.
Please let me know.

Thank you,

Yulia Kalmykova, Ph.D.
Senior Project Manager

TRC

2 Liberty Square, Boston, MA 02109
Phone: 857.301.3932

From: Qian, Yaorong <qian.yaorong@epa.gov>
Sent: Thursday, May 6, 2021 4:16 PM
To: Kalmykova, Yulia <YKalmykova@trccompanies.com>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hi Yuliya,

Just want to drop you a note to tell you that we analyzed half of the Plymouth and Georgetown split samples you sent to us earlier. We will work on the remaining samples next week.

For the samples we analyzed, we only found low levels of some PFAS in some samples, mostly are near or below our limit of quantitation (LOQ). Our LOQ is 0.025 ppb for these oily samples.

	Plymouth Field dup 1	Plymouth Field dup 2	Georgetown field dup	Plymouth Anvil unopen lot 1	Plymouth Anvil unopen lot 2	Plymouth BVA 2 open	Plymouth BVA unopen	Georgetown Duet open	Georgetown Duet unopen
PFPeA	-	-	<LOQ	-	0.025	-	-	-	-
PFPeS	-	-	-	-	-	-	-	-	-
PFBA	-	-	0.030	-	-	-	-	-	-

N-MeFOSAA	-	-	-	-	-	-	-	-	-
N-EtFOSAA	-	-	-	-	-	-	-	-	-
PFOS	-	-	-	-	-	-	-	-	-
PFNA	-	-	-	-	-	-	-	-	-
PFNS	-	-	-	-	-	-	-	-	-
PFOA	-	-	-	-	-	-	-	-	-
PFHpS	-	-	-	-	-	-	-	-	-
PFHxS	-	-	-	-	-	-	-	-	-
PFHpA	<LOQ	-	<LOQ	<LOQ	<LOQ	-	-	-	<LOQ
PFHxA	0.058	-	0.069	0.068	0.070	-	-	<LOQ	<LOQ
PFBS	-	-	-	-	-	-	-	-	-
PFDoS	-	-	-	-	-	-	-	-	-
PFHxDA	-	-	-	-	-	-	-	-	-
PFODA	-	-	-	-	-	-	-	-	-
FOSAA	-	-	-	-	-	-	-	-	-
PFTeDA	-	-	-	-	-	-	-	-	-
PFTrDA	-	-	-	-	-	-	-	-	-
PFDoA	-	-	-	-	-	-	-	-	-
PFUdA	-	-	-	-	-	-	-	-	-
PFDA	-	-	-	-	-	-	-	-	-
PFDS	-	-	-	-	-	-	-	-	-
HFPO-DA	-	-	-	-	-	-	-	-	-
NaDONA	-	-	-	-	-	-	-	-	-

This is preliminary and it may change when we go through our QA review. After we complete all the analysis, we will send you a final report.

Thanks,

Yaorong

From: Kalmykova, Yuliya <YKalmykova@trccompanies.com>
Sent: Wednesday, April 28, 2021 2:54 PM
To: Qian, Yaorong <qian.yaorong@epa.gov>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

That's right, Yaorong. You didn't receive Waltham samples because this was our first location and we were not yet notified to send you split samples.

Thank you,

Yuliya Kalmykova, Ph.D.
Senior Project Manager

TRC
2 Liberty Square, Boston, MA 02109
Phone: 857.301.3932
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Qian, Yaorong <qian.yaorong@epa.gov>
Sent: Wednesday, April 28, 2021 2:18 PM
To: Kalmykova, Yuliya <YKalmykova@trccompanies.com>; Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Thanks Yuliya.

I checked the samples we received and found that the samples received include

Georgetown Vectobac 12AS
Plymouth Anvil 10+10 (Lot 1 and Lot 2)
Georgetown Suspend SC and Suspend PZ
Plymouth Agua Zenivex E20 (lot 1 and lot 2).

We do not have

Waltham vectobac 12AS
Waltham Mavrik.

We will get these samples analyzed as soon as possible.

Thanks,

Yaorong

From: Kalmykova, Yuliya <YKalmykova@trccompanies.com>
Sent: Wednesday, April 28, 2021 1:49 PM
To: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Cc: Qian, Yaorong <qian.yaorong@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

Hello Thuy,

Following-up on our call about pesticide samples.
PFAS has been detected in several samples, including in the products from containers that were reportedly non-fluorinated.

Below is the priority list from MassDEP that you maybe can use as a guidance for selecting samples to analyze:
#1 = Georgetown: vectovbac (one) and waltham vectobac 12as (all 3);
#2 = Plymouth: Anvil 10+10 (lot 1 and lot 2);
#3 = Georgetown: Suspend (both) and Waltham Mavrik (both);
#4 =Plymouth: Aqua Zenivex

Thank you,

Yuliya Kalmykova, Ph.D.
Senior Project Manager

2 Liberty Square, Boston, MA 02109
Phone: 857.301.3932
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From: Kalmykova, Yuliya
Sent: Monday, April 26, 2021 12:03 PM
To: Qian, Yaorong <qian.yaorong@epa.gov>
Cc: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

Hi Yaorong,

We have the results from Alpha. MassDEP requested that we summarize all the results from this sampling campaign in a technical memorandum.

Please let me know when you can share results from your lab.

Thank you,

Yuliya Kalmykova, Ph.D.
Senior Project Manager

2 Liberty Square, Boston, MA 02109
Phone: 857.301.3932
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Qian, Yaorong <qian.yaorong@epa.gov>
Sent: Tuesday, March 16, 2021 12:13 PM
To: Kalmykova, Yuliya <YKalmykova@trccompanies.com>
Cc: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

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Hi Yuliya,

We received the samples you sent to us. The samples are received on ice and in good condition. Attached is the signed COC for these samples.

Thanks,

Yaorong Qian, Ph.D
Senior Chemist
Analytical Chemistry Branch
BEAD, Office of Pesticide Programs

U.S. EPA
701 Mapes Rd.
Ft. Meade, MD 20755
410-305-2636

From: Kalmykova, Yuliya <YKalmykova@trccompanies.com>
Sent: Monday, March 15, 2021 7:42 AM
To: Qian, Yaorong <qian.yaorong@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

Hi Yaorong,

Thank you for the prompt reply. We will collect 100ml for formulated products and 250ml for field and equipment blanks.
Samples are expected to be delivered to EPA by 10.30 AM on Tuesday (tomorrow).

Thank you,

Yuliya Kalmykova, Ph.D.
Senior Project Manager

TRC
2 Liberty Square, Boston, MA 02109
Phone: 857.301.3932
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Qian, Yaorong <qian.yaorong@epa.gov>
Sent: Friday, March 12, 2021 12:06 PM
To: Kalmykova, Yuliya <YKalmykova@trccompanies.com>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

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Hi Yuliya,

What are the sample types? Formulated products or water samples? We do not need much for the formulated products. We can work with as little as 20 ml. If we can get 100 ml, it would be great.

For water samples, we can work with as little as 50 ml.

Thanks,

Yaorong

From: Kalmykova, Yuliya <YKalmykova@trccompanies.com>
Sent: Friday, March 12, 2021 11:18 AM
To: Qian, Yaorong <qian.yaorong@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

Hi Yaorong,

I was wondering what minimum size of the aliquot is needed to run samples in your lab. For some products, the quantity isn't enough to fill 2*250 ml containers.

Please let me know.

Thank you,

Yuliya Kalmykova, Ph.D.
Senior Project Manager

TRC

2 Liberty Square, Boston, MA 02109
Phone: 857.301.3932
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Qian, Yaorong <qian.yaorong@epa.gov>
Sent: Tuesday, March 9, 2021 4:41 PM
To: Kalmykova, Yuliya <YKalmykova@trccompanies.com>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

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Yes, please include a field blank. You can use the address (highlighted) below for the shipment addressed to me.

Thanks,

Yaorong Qian, Ph.D
Senior Chemist
Analytical Chemistry Branch
BEAD, Office of Pesticide Programs
U.S. EPA
701 Mapes Rd.
Ft. Meade, MD 20755
410-305-2636

From: Kalmykova, Yuliya <YKalmykova@trccompanies.com>
Sent: Tuesday, March 09, 2021 4:31 PM
To: Qian, Yaorong <qian.yaorong@epa.gov>
Subject: RE: [EXTERNAL] RE: Pesticide sampling - MassDEP

Hi Yaorong,

Do you want to have a field blank? Which address should I send samples?

Thank you,

Yuliya Kalmykova, Ph.D.
Senior Project Manager

TRC

2 Liberty Square, Boston, MA 02109
Phone: 857.301.3932
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Qian, Yaorong <qian.yaorong@epa.gov>
Sent: Tuesday, March 9, 2021 1:05 PM
To: Kalmykova, Yuliya <YKalmykova@trccompanies.com>
Cc: Nguyen, Thuy <Nguyen.Thuy@epa.gov>
Subject: [EXTERNAL] RE: Pesticide sampling - MassDEP

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Hi Yuliya,

Please use the same bottles that you would use for the Alpha Analytical for the split samples that you will send to us. Please let us know if you have any questions.

Thanks,

Yaorong Qian, Ph.D
Senior Chemist
Analytical Chemistry Branch
BEAD, Office of Pesticide Programs
U.S. EPA
701 Mapes Rd.
Ft. Meade, MD 20755
410-305-2636

Begin forwarded message:

> **From:** "Kalmykova, Yuliya" <YKalmykova@trccompanies.com>
> **Date:** March 9, 2021 at 10:40:46 AM EST
> **To:** "Nguyen, Thuy" <Nguyen.Thuy@epa.gov>
> **Subject: Pesticide sampling - MassDEP**
>
> Hello Thuy,
>
> I'm Yuliya Kalmykova, project manager at TRC companies. I manage Anvil sampling campaign for MassDEP, and I was referred to you by Mark Smith at MassDEP.

Mark let us know that we should send split samples to US EPA. I was wondering whether we can use bottles that we get from Alpha Analytical or if, instead, you prefer to send us bottles from your lab. Also, should we send you a field blank along with the product samples?

Please let me know.

Thank you,

Yuliya Kalmykova, Ph.D.
Senior Project Manager

TRC

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From: Smith, C Mark (DEP) <c.mark.smith@state.ma.us>
Sent: Monday, March 8, 2021 12:07 PM
To: Denly, Elizabeth <edenly@trccompanies.com>; Kiley, Cathy (DEP) <cathy.kiley@state.ma.us>
Cc: Gardner, George (DEP) <george.gardner@state.ma.us>; Locke, Paul (DEP) <paul.locke@state.ma.us>; LaScola, Taryn (AGR) <taryn.lascola@state.ma.us>; Shaughnessy, Robert (DEP) <robert.shaughnessy@state.ma.us>; Kalmykova, Yuliya <YKalmykova@trccompanies.com>; Doherty, James <JDoherty@trccompanies.com>
Subject: Re: [EXTERNAL] RE: Pesticide sampling - DEP SARSSVI Project #102037

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Hi Liz,

EPA has requested that we have split samples sent to EPA lab as well. Could you please coordinate with Thuy on that - info below.

Let me know if you have any questions.

Mark

Thuy Nguyen

Analytical Chemistry Branch
USEPA/OPP/Biological and Economic Analysis Division (7503P)

Environmental Science Center
701 Mapes Road
Ft Meade, Maryland 20755-5350
Phone (410) 305 2905