Message

From: Nesci, Kimberly [Nesci.Kimberly@epa.gov]
Sent: 11/24/2020 2:47:32 PM
To: Messina, Edward [Messina.Edward@epa.gov]; Reaves, Elissa [Reaves.Elissa@epa.gov]
CC: Goodis, Michael [Goodis.Michael@epa.gov]; Layne, Arnold [Layne.Arnold@epa.gov]; Dinkins, Darlene [Dinkins.Darlene@epa.gov]
Subject: RE: Additional ? re. Anvil/Massachusetts

Will do. Thanks.

From: Messina, Edward <Messina.Edward@epa.gov>
Sent: Tuesday, November 24, 2020 9:37 AM
To: Nesci, Kimberly <Nesci.Kimberly@epa.gov>; Reaves, Elissa <Reaves.Elissa@epa.gov>
Cc: Goodis, Michael <Goodis.Michael@epa.gov>; Layne, Arnold <Layne.Arnold@epa.gov>; Dinkins, Darlene <Dinkins.Darlene@epa.gov>
Subject: FW: Additional ? re. Anvil/Massachusetts

Fyi. Might want to draft something.

Ed Messina, Esq.
Acting Office Director
Office of Pesticide Programs
Office of Chemical Safety & Pollution Prevention
U.S. Environmental Protection Agency
Washington, D.C.
p: (703) 347-0209

From: Deegan, Dave <Deegan.Dave@epa.gov>
Sent: Tuesday, November 24, 2020 9:35 AM
To: Messina, Edward <Messina.Edward@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>
Cc: Deegan, Dave <Deegan.Dave@epa.gov>; Barmakian, Nancy <Barmakian.Nancy@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>
Subject: Additional ? re. Anvil/Massachusetts

Hi Folks,

We've been asked a few further questions by the Administrator's Office re. the statement we worked on yesterday. We wanted to check whether OPP is ok with discussing Ex. 5 Deliberative Process (DP), since I don't think we have specifically stated that yet. (I don't know yet whether the AO would want this info in the desk statement or not.)

Thanks!
Dave
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Dave Deegan
U.S. EPA, New England Regional Office
Office of Public Affairs
phone: 617.918.1017 | mobile: 617.594.7068
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From: McGuire, Karen <Mcguire.Karen@epa.gov>
Sent: Tuesday, November 24, 2020 9:21 AM
To: Chow, James <chow.james@epa.gov>; Deegan, Dave <Deegan.Dave@epa.gov>
Cc: Hayes, Sharon <Hayes.Sharon@epa.gov>; Barmakian, Nancy <Barmakian.Nancy@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

Does OCSPP want to share that Ex. 5 Deliberative Process (DP)
Ex. 5 Deliberative Process (DP)

From: McGuire, Karen <Mcguire.Karen@epa.gov>
Sent: Tuesday, November 24, 2020 9:14 AM
To: Deegan, Dave <Deegan.Dave@epa.gov>
Cc: Hayes, Sharon <Hayes.Sharon@epa.gov>; Chow, James <chow.james@epa.gov>; Barmakian, Nancy <Barmakian.Nancy@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

What about adding #3 below? We should confirm OECA comms okay with this.
Also, I've attached some highlights of R1involvement Sharon pulled together if helpful.

From: Deegan, Dave <Deegan.Dave@epa.gov>
Sent: Tuesday, November 24, 2020 8:54 AM
To: McGuire, Karen <Mcguire.Karen@epa.gov>; Barmakian, Nancy <Barmakian.Nancy@epa.gov>
Cc: Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>
Subject: FW: FOR REVIEW: Globe PFAS story

Hi, FYI on request for further clarification in email below. I've sketched in brief responses below but please weigh in on substance since I'm not at all positive that what I'm suggesting is 100% accurate.

Ex. 5 Deliberative Process (DP)

Thanks!
Dave
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Dave Deegan
U.S. EPA, New England Regional Office
Office of Public Affairs
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phone: 617.918.1017 | mobile: 617.594.7068

From: Hoverman, Taylor <hoverman.taylor@epa.gov>
Sent: Tuesday, November 24, 2020 8:39 AM
To: Deegan, Dave <Deegan.Dave@epa.gov>; Drinkard, Andrea <Drinkard.Andrea@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

Sorry for delay – two questions as I edit:

- Ex. 5 Deliberative Process (DP)

Taylor Meredith
Senior Advisor to the Administrator
U.S. Environmental Protection Agency
C: 202-494-3662
O: 202-566-2705

From: Deegan, Dave <Deegan.Dave@epa.gov>
Sent: Monday, November 23, 2020 3:20 PM
To: Drinkard, Andrea <Drinkard.Andrea@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>; Hewitt, James <hewitt.james@epa.gov>; Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>; Messina, Edward <Messina.Edward@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>; Barmakian, Nancy <Barmakian.Nancy@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Hull, George <Hull.George@epa.gov>; Hoverman, Taylor <hoverman.taylor@epa.gov>; Block, Molly <block.molly@epa.gov>; Ozmen, Shamus <Ozmen.Shamus@epa.gov>; Norcross, Jeffrey <Norcross.Jeffrey@epa.gov>; Deegan, Dave <Deegan.Dave@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

Changing Ex. 5 Deliberative Process (DP)
Missing the word Ex. 5 Deliberative Process (DP)

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Statement

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Background

Ex. 5 Deliberative Process (DP)

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Thanks!
Dave
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Dave Deegan
U.S. EPA, New England Regional Office
Office of Public Affairs
phone: 617.918.1017 | mobile: 617.594.7068

From: Drinkard, Andrea <Drinkard.Andrea@epa.gov>
Sent: Monday, November 23, 2020 2:55 PM
To: Dennis, Allison <Dennis.Allison@epa.gov>; Deegan, Dave <Deegan.Dave@epa.gov>; Hewitt, James <hewitt.james@epa.gov>; Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>; Messina, Edward <Messina.Edward@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Hull, George <Hull.George@epa.gov>; Hoverman, Taylor <hoverman.taylor@epa.gov>; Block, Molly <block.molly@epa.gov>; Ozmen, Shamus <Ozmen.Shamus@epa.gov>; Norcross, Jeffrey <Norcross.Jeffrey@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

Sorry, Allison, and all for the resend, I forgot to tweak the sentence you mentioned. Updated below.

From: Drinkard, Andrea
Sent: Monday, November 23, 2020 2:51 PM
To: Dennis, Allison <Dennis.Allison@epa.gov>; Deegan, Dave <Deegan.Dave@epa.gov>; Hewitt, James <Hewitt.James@epa.gov>; Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>; Messina, Edward <Messina.Edward@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>

Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Hull, George <Hull.George@epa.gov>; Hoverman, Taylor <hoverman.taylor@epa.gov>; Block, Molly <block.molly@epa.gov>; Ozmen, Shamus <Ozmen.Shamus@epa.gov>; Norcross, Jeffrey <Norcross.Jeffrey@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

Thanks, Allison. Cleaned up and slightly rearranged for flow. Does anyone have additional edits? Dave D, how are we doing on timing with the reporter? I'd like Taylor to weigh in as well, if she has time.

Statement

Ex. 5 Deliberative Process (DP)

Background

Ex. 5 Deliberative Process (DP)

From: Dennis, Allison <Dennis.Allison@epa.gov>
Sent: Monday, November 23, 2020 2:43 PM
To: Deegan, Dave <Deegan.Dave@epa.gov>; Hewitt, James <hewitt.james@epa.gov>; Drinkard, Andrea <Drinkard.Andrea@epa.gov>; Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>; Messina, Edward <Messina.Edward@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Hull, George <Hull.George@epa.gov>; Hoverman, Taylor <hoverman.taylor@epa.gov>; Block, Molly <block.molly@epa.gov>; Ozmen, Shamus <Ozmen.Shamus@epa.gov>; Norcross, Jeffrey <Norcross.Jeffrey@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

Can we change this sentence:

Ex. 5 Deliberative Process (DP)

FYI – I don't want to give an impression that Ex. 5 Deliberative Process (DP)

From: Deegan, Dave <Deegan.Dave@epa.gov>
Sent: Monday, November 23, 2020 2:38 PM
To: Dennis, Allison <Dennis.Allison@epa.gov>; Hewitt, James <hewitt.james@epa.gov>; Drinkard, Andrea <Drinkard.Andrea@epa.gov>; Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>; Messina, Edward <Messina.Edward@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Hull, George <Hull.George@epa.gov>; Hoverman, Taylor <hoverman.taylor@epa.gov>; Block, Molly <block.molly@epa.gov>; Ozmen, Shamus <Ozmen.Shamus@epa.gov>; Norcross, Jeffrey <Norcross.Jeffrey@epa.gov>; Deegan, Dave <Deegan.Dave@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

Hi All,
Here are combined input from Region 1. First a few points for clarification, then below we show an edited statement:

Region 1 has not Ex. 5 Deliberative Process (DP)

In addition, we recommend Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

We defer to OCSPP, but also would Ex. 5 Deliberative Process (DP)

Finally, while we're not sure this is helpful in the response, Ex. 5 Deliberative Process (DP)
Ex. 5 Deliberative Process (DP)

We've included suggested edits in the text below.

Statement

Ex. 5 Deliberative Process (DP)

Background

Ex. 5 Deliberative Process (DP)

Ex. 5 Deliberative Process (DP)

Thanks!
Dave
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Dave Deegan
U.S. EPA, New England Regional Office
Office of Public Affairs
phone: 617.918.1017 | mobile: 617.594.7068

From: Dennis, Allison <Dennis.Allison@epa.gov>
Sent: Monday, November 23, 2020 1:55 PM
To: Hewitt, James <hewitt.james@epa.gov>; Drinkard, Andrea <Drinkard.Andrea@epa.gov>; Deegan, Dave <Deegan.Dave@epa.gov>; Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>; Norcross, Jeffrey <Norcross.Jeffrey@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Hull, George <Hull.George@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>; Hoverman, Taylor <hoverman.taylor@epa.gov>; Block, Molly <block.molly@epa.gov>; Ozmen, Shamus <Ozmen.Shamus@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

Please add Ex. 5 Deliberative Process (DP)

I think R1 is best to take the lead on this ask: Are we able to make it clear Ex. 5 Deliberative Process (DP)
Ex. 5 Deliberative Process (DP)

From: Hewitt, James <hewitt.james@epa.gov>
Sent: Monday, November 23, 2020 12:59 PM
To: Drinkard, Andrea <Drinkard.Andrea@epa.gov>; Deegan, Dave <Deegan.Dave@epa.gov>; Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>; Norcross, Jeffrey <Norcross.Jeffrey@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>; Hull, George <Hull.George@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>; Hoverman, Taylor <hoverman.taylor@epa.gov>; Block, Molly <block.molly@epa.gov>; Ozmen, Shamus <Ozmen.Shamus@epa.gov>
Subject: RE: FOR REVIEW: Globe PFAS story

DRAFT AND DELIBERATIVE
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I want to move further to the top that Ex. 5 Deliberative Process (DP)

Are we able to make it clear Ex. 5 Deliberative Process (DP)

From: Drinkard, Andrea <Drinkard.Andrea@epa.gov>
Sent: Monday, November 23, 2020 12:50 PM
To: Deegan, Dave <Deegan.Dave@epa.gov>; Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>; Norcross, Jeffrey <Norcross.Jeffrey@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>; Hull, George <Hull.George@epa.gov>; Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>; Hoverman, Taylor <hoverman.taylor@epa.gov>; Block, Molly <block.molly@epa.gov>; Hewitt, James <hewitt.james@epa.gov>; Ozmen, Shamus <Ozmen.Shamus@epa.gov>
Subject: FOR REVIEW: Globe PFAS story

DRAFT DELIBERATIVE

In the interest of time, I wanted to get an updated statement around to this group for input. Please send me any edits you have ASAP and I will compile them and share a new draft. Our deadline is this "afternoon."

One question I did have was whether we wanted to address Ex. 5 Deliberative Process (DP)
Ex. 5 Deliberative Process (DP)

Statement

Ex. 5 Deliberative Process (DP)

Background

Ex. 5 Deliberative Process (DP)

From: Deegan, Dave <Deegan.Dave@epa.gov>
Sent: Monday, November 23, 2020 7:33 AM
To: Deziel, Dennis <Deziel.Dennis@epa.gov>; Szaro, Deb <Szaro.Deb@epa.gov>; Gutro, Doug <Gutro.Doug@epa.gov>; Norcross, Jeffrey <Norcross.Jeffrey@epa.gov>; McGuire, Karen <Mcguire.Karen@epa.gov>
Cc: Grantham, Nancy <Grantham.Nancy@epa.gov>; Leifer, Kerry <Leifer.Kerry@epa.gov>; Dennis, Allison <Dennis.Allison@epa.gov>; Hull, George <Hull.George@epa.gov>; Drinkard, Andrea <Drinkard.Andrea@epa.gov>;

Siedschlag, Gregory <Siedschlag.Gregory@epa.gov>
Subject: Fwd: Globe PFAS story

Hi All, flagging for awareness Boston Globe inquiry below.

Assuming we will coordinate between HQ and region.

Dave

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Dave Deegan
US EPA, Region 1
Office of Public Affairs
deegan.dave@epa.gov
617.918.1017 office
617.594.7068 iPhone

Begin forwarded message:

> **From:** "Abel, David" <dabel@globe.com>
> **Date:** November 22, 2020 at 6:14:43 PM EST
> **To:** "Leifer, Kerry" <Leifer.Kerry@epa.gov>, "Deegan, Dave" <Deegan.Dave@epa.gov>
> **Subject: Globe PFAS story**

Hi Kerry and Dave,

I hope all's well. I'm working on a potential story about elevated levels of PFAS found in Anvil, the insecticide Massachusetts and other states use to spray for EEE. Below is a table of findings from DEP, as well as a press release and other documents from PEER, urging the state to ban the use of the chemicals.

Just wondering if you could respond to these questions:

-- Are these findings of PFAS in Anvil from the DEP concerning, and if so, why or why not?

-- Should we be as concerned about forever chemicals (which don't degrade) being sprayed by air and truck entering drinking water and other water systems, and if so, why?

-- Based on these findings, should the EPA or states ban the use of these chemicals, and if so, why or why not?

Thanks!

Best, David

Summary Table of PFAS Concentrations from MassDEP Anvil 10 + 10 Sampling:

Sample collection date	9/22	9/22	9/22	9/22	9/22	10/21	10/21	10/21	10/21	10/22
Sample type	55 gal. drum 1	55 gal. drum 2	CONTROL: sampling device rinse cntrl. for 55 gal.	2.5 gal. jug 1 (SAMPLE 3)	sampling device rinse cntrl. 2.5 gal. jug 1	55 gal. drum 1	55 gal. drum 2	55 gal. drum 3 and dupli-cate sample	Sampling device rinse cntrl. for 55 gal.	2.5 gal. jug 2 and Dupli-cate sample
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			drum 1 and 2						drum 1 and 2	
PFAS Compound	Concentration in nanograms per liter (ng/L) or part per trillion (ppt)									
Perfluorobutanoic Acid (PFBA)	**692**	171	ND ND	52.8 J	ND	**716**	174	**230** 216	ND ND	59.2 J 62.9 J
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluoropentanoic Acid (PFPeA)	296	76.6 J	0.370 J ND	35.2 J	ND	290	55.4 J	88.7 J 84.7 J	ND ND	41.5 J 41.2 J
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluorohexanoic Acid (PFHxA)	132	41.2 J	0.407 J ND	17.6 J	0.461 J	105	23.7 J	37.4 J 42.3 J	ND ND	19.7 J ND
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluoroheptanoic Acid (PFHpA)	53.4 J	23.6 J	ND ND	ND	ND	47.6 J	ND	ND 19.2 J	ND ND	ND ND
Perfluorohexanesulfonic Acid (PFHxS)	**ND**	**ND**	**ND** **ND**	**52.8 J**	**ND**	**ND**	**ND**	**ND** **ND**	**ND** **ND**	**59.2 J** **57 J**
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ND ND	ND	ND	29.8 J	31.6 J	27.6 J 28.9 J	ND ND	ND ND
Perfluorooctanoic Acid (PFOA)	**25.7 J**	**ND**	**ND** **ND**	**ND**	**ND**	**21.8 J**	**ND**	**ND** **ND**	**ND** **ND**	**ND** **ND**
Perfluoroheptanesulfonic Acid (PFHpS)	107	100	ND ND	125	ND	ND	98.9	63.0 J 52.0 J	ND ND	138 108
Perfluorononanoic Acid (PFNA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluorooctanesulfonic Acid (PFOS)	**73.1 J**	**ND**	**ND** **ND**	**76.2 J**	**2.73**	**ND**	**ND**	**ND** **ND**	**3.31** **ND**	**132** **141**
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluorodecanoic Acid (PFDA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluoroundecanoic Acid (PFUnA)	13.8 J	ND	ND ND	21.5 J	ND	184	ND	ND ND	ND ND	ND ND
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND
Perfluorododecanoic Acid (PFDoA)	ND	ND	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND ND

Table notes: ND = not detected; J = estimated value; Tube rinse cntrl. = sampling device rinsates performed at sampling site prior to sample collection to assess any sampling device contamination. All field and trip blanks were generally non-detect and are not presented. In one, PFOS was detected at 3.3 ppt.

All samples were analyzed by Alpha Analytical, Mansfield, MA. using a modified version of EPA Method 533. Stated reporting limits for product samples were below 100 ng/L with detection limits ranging from approximately 5-50 ng/L depending on the analyte. QA/QC issues were appropriately noted by Alpha Analytical in the lab reports but all QA/QC elements have not been fully reviewed by MassDEP at this time.

The September and October samples were collected by two different contractors using new sampling devices. The October 2.5 gallon jug samples were directly poured into the sample collection tubes.

Initial samples that were collected on 9/2 are not presented. These were invalidated because appropriate field controls were not collected by the contractor and results were consistent with samples being contaminated during collection. In that round, five to thirteen PFAS were detected in duplicate analyses of the single drum 1 sample collected, with a maximum concentration of 25 ug/L (25,000 ppt) for PFBA.

David Abel
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dabel@globe.com
Follow on Twitter @davabel
See my bio here, films here, and recent stories here