Message

From: Strynar, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5A9910D5B38E471497BD875FD329A20A-STRYNAR, MARK]
Sent: 10/13/2017 7:20:10 PM
To: Buckley, Timothy [Buckley.Timothy@epa.gov]; Lindstrom, Andrew [Lindstrom.Andrew@epa.gov]
CC: Medina-Vera, Myriam [Medina-Vera.Myriam@epa.gov]; Biales, Adam [Biales.Adam@epa.gov]
Subject: RE: Update

<!--[if lte mso 15 || CheckWebRef]-->

Strynar, Mark has shared a OneDrive for Business file with you. To view it, click the link below.

10-13-17 GenX and NTA table site visit Chemours.docx

<!--[endif]-->

Here is the table to 3 significant figures. I eliminated the Flags column. The samples were run once and not diluted and reran if the curve was exceeded unlike past assays. For the NTA work the dash indicates not detected. For the GenX targeted work the "*" indicated exceeded upper end of calibration curve.

Mark

From: Buckley, Timothy
Sent: Friday, October 13, 2017 2:08 PM
To: Strynar, Mark <Strynar.Mark@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Cc: Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>; Biales, Adam <Biales.Adam@epa.gov>
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Mark,

Do you think James would be able/willing to put this in spreadsheet format amenable to creating a Word table like we have previously used?

Tim

Table 3. PFAS Concentrations (ng/L)

n	Quantified Using Targeted Analysis												Quantified Using Non-Targeted Analysis				
	GenX	Legacy PFAS											PFMOAA	PFO2HxA	PFO3OA	PFESA BP1	PFESA BP2
		PFBA	PFPeA	PFHxA	PFHpA	PFOA	PFNA	PFDA	PFBS	PFHxS	PFOS						
7	-	-	21.7	18.4	10.9	-	-	-	-	-	-		34.1	307.0	-	-	-
7	81.7	30.0	30.0	22.5	14.1	9.6	-	-	-	-	-		574	57.8	31.6	-	3,640
1	307*	-	-	-	-	-	-	-	-	-	-		327	78.6	10.6	-	68.0
1	19,100	162	224	19.5	36.7	60.9	-	-	-	-	-		23,500	5,090	1,630	-	6,060
1	17,100	161	251	18.8	39.7	63.3	-	-	-	-	-		26,500	4,680	1,440	-	5,270
1	26,700*	161	251	18.8	39.7	63.3	-	-	-	-	-		24,900	5,210	1,300	-	8,080

1	21,500	165	247	21.3	38.1	59.2	-	-	-	-	-	26,900	5,750	1,500	-	6,440
2	5,990	56.8	232	-	-	-	-	-	-	-	-	44,300	3,250	1,190	-	281
3	6,130	130	601*	-	11.5	-	-	-	-	-	-	108,000	5,420	1,380	-	168
4	9,720	328*	1,030	22.6	43.0	-	-	-	-	-	-	83,000	5,550	1,320	14.1	1,590
5	41,000*	385*	1,860	85.7	407*	-	-	-	-	-	-	285,000	21,200	13,500	-	3,810
5	6,540	105	239	14.3	33.8	70.7	19.7	-	-	-	-	24,400	1,680	590	-	6,860
1	1,520	11.1	20.3	-	-	10.5	-	-	-	-	-	1,500	242	119	-	635
	13,700	59.7	226	74.3	126	1,960	-	-	-	-	-	93,600	4,660	1,590	78.5	1,510
	22,700	447*	1,400	96.6	186	2,100	-	-	-	-	-	738,000	38,600	13,300	20,600	12,300
9	12,800	419*	273*	62.2	39.2	38.8	-	-	-	-	-	12,600	-	399	24,500	2,460
0	10.7	-	-	-	-	-	-	-	-	-	-	283	-	-	-	-
1	2,580	24.8	26.0	-	-	23.9	-	-	-	-	-	5,650	330	-	-	389
2	767	16.4	20.8	-	-	-	-	-	-	-	-	3,670	206	-	-	-

Flag Codes:

dash "-" = concentration below limit of detection of 10 ng/L
1 = Samples Diluted 25X
2 = Samples Diluted 50X
3 = Samples Diluted 100X
* = analyte outside range of calibration curve after dilution

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Ex. 6 Personal Privacy (PP))

From: Strynar, Mark
Sent: Thursday, October 12, 2017 10:08 AM
To: Buckley, Timothy <Buckley.Timothy@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Cc: Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>; Biales, Adam <Biales.Adam@epa.gov>
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Andy,

Please take a look at these when you get a chance. I ran these on the TOFMS to get GenX and the Nafion BP1, BP2 and the related PFECAS in one run rather than running the MS/MS and then TOFMS. In general the std curve is good from 25-1000 ng/L. The QCs (blank is blank, and the 250 and 1000 ng/L seem good). I did not calculate the replicate precision, however we had three samples replicate analyzed (Huske L&D, Chemours Old Waste Tributary, Chemours 001 discharge). They all seem like <20% for GenX analysis.

For 5 samples GenX was above the calibration curve (shown in red bold). Three samples exceeded the curve by 8-9x. The high QC exceeded the calibration curve similar to the two samples around 1,200 ng/L. None of these samples were reanalyzed with dilution. Concentrations above the calibration curve should be considered estimates for GenX.

For the other analytes (Nafion BP1, BP2, and the related compounds to GenX) estimations of concentrations were done by comparing the area ratio of the analyte to GenX and estimating concentration by multiplying by the measured GenX concentrations. This is how we did this estimation in past assays.

Give this a look and let me know what you see as soon as you can.

Thanks,
Mark

From: Buckley, Timothy
Sent: Thursday, October 12, 2017 8:28 AM
To: Strynar, Mark <Strynar.Mark@epa.gov>; Lindstrom, Andrew <Lindstrom.Andrew@epa.gov>
Cc: Medina-Vera, Myriam <Medina-Vera.Myriam@epa.gov>; Biales, Adam <Biales.Adam@epa.gov>
Subject: FW: Update

Where are we with these data?

Tim

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Ex. 6 Personal Privacy (PP) (C)

From: Culpepper, Linda [mailto:linda.culpepper@ncdenr.gov]
Sent: Tuesday, October 10, 2017 1:56 PM
To: Buckley, Timothy <Buckley.Timothy@epa.gov>
Subject: Update

Hi Tim – any idea of when we would receive the data from the Chemours process area samples?

Thank you.

Linda Culpepper
Deputy Director
Division of Water Resources
North Carolina Department of Environmental Quality

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