Message

From: Wickersham, Lindsay [wickersham.lindsay@epa.gov]
Sent: 4/22/2020 2:10:06 PM
To: Wickersham, Lindsay [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=85135672b9d741a6ae92855a8beffacf-Wickersham,]; McCord, James [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=McCord, James]
Subject: Conversation with Wickersham, Lindsay

Wickersham, Lindsay 9:54 AM:

Hi can I ask you a quick question

McCord, James 9:54 AM:
Sure what's up

Wickersham, Lindsay 9:55 AM:
Did you give semi-quantitative results to West Virginia in your last report to them?

McCord, James 9:55 AM:
I don't think those reports have been delivered

McCord, James 9:55 AM:
But no I did quant for the two compounds they asked for

McCord, James 9:55 AM:
and just non-targeted for the rest

McCord, James 9:55 AM:
no estimated concentrations

Wickersham, Lindsay 9:55 AM:
okay gotcha. that makes more sense

Wickersham, Lindsay 9:55 AM:
I'm in a meeting and the boomers are getting confused

McCord, James 9:56 AM:
We did estimated concentrations for NJ

McCord, James 9:56 AM:
for the ClPFECA

McCord, James 9:56 AM:
and we have done it for NC and NH

McCord, James 9:56 AM:
but not WV

Wickersham, Lindsay 9:56 AM:
So you can only do quantitative for targeted not non-targeted?

Wickersham, Lindsay 9:56 AM:
or for specific compounds

McCord, James 9:57 AM:
We can only do quant on specific compounds at this point

McCord, James 9:58 AM:

We can kinda estimate concentrations using non-targeted data if we run a calibration curve for a surrogate and quantify as if it was the other compound

McCord, James 9:58 AM:
but that's very error prone

McCord, James 9:58 AM:
like up to 100x off

Wickersham, Lindsay 9:58 AM:
okay, I'll be sure to pass that along-- thank you

McCord, James 9:58 AM:
possible as low as 1% off, but up to 100x off

McCord, James 9:58 AM:
and no way to know which of those two circumstances you are in

McCord, James 9:59 AM:
we are working on semi-quant approaches though

Wickersham, Lindsay 10:01 AM:
Great! That's definitely something that we are interested in...but understand it's really hard and will take a while

Wickersham, Lindsay 10:01 AM:
Do you guys have an experiment in mind to help work on the semi-quant approach?

McCord, James 10:01 AM:
We have several ongoing

McCord, James 10:01 AM:
Hannah has done some GC work

McCord, James 10:01 AM:
Jon Sobus and Louis have been working with the ENTACT data

McCord, James 10:01 AM:
I had Kelsey and Nelson collect some data before the shutdown

McCord, James 10:02 AM:
Basically you have to collect a bunch of data and try to figure out what makes a good surrogate

McCord, James 10:02 AM:
so we are at the stage of building models to determine good surrogates

McCord, James 10:02 AM:
Hannah and Louis are working on their papers already

McCord, James 10:02 AM:
GC is much better than LC in terms of being able to predict

Wickersham, Lindsay 10:03 AM:
Yes, they were talking about that as well. I'll get in touch with them and see what they have in mind/where the research is

Wickersham, Lindsay 10:03 AM:
Thank you, this is been more helpful then all the speculating going on in this meeting

McCord, James 10:04 AM:
It's all very speculative at this point

McCord, James 10:04 AM:
there is actually not a lot of work out there on doing semi-quant from NTA

McCord, James 10:04 AM:
I know because I'm writing a review while we are quarantined

McCord, James 10:04 AM:
Basically two or three research groups trying to model in-solution concentrations from MS response

McCord, James 10:05 AM:
and doing....okay

Wickersham, Lindsay 10:09 AM:
I'm going to send this convo to stephen too, he's got more experience with this so I have a feeling he'll know what questions to ask