Message

From: Sobus, Jon [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=3FEF00D2138C4A1DA30B70036A30124C-SOBUS, JON]
Sent: 12/14/2021 4:39:25 PM
To: Strynar, Mark [strynar.mark@epa.gov]; McCord, James [mccord.james@epa.gov]
Subject: RE: CLAM high volume sampling for organics per your inquiry

Proof-of-concept comparison could be very useful. Brett and Angela said their POCIS get vandalized and stolen often.

From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Tuesday, December 14, 2021 11:37 AM
To: Sobus, Jon <Sobus.Jon@epa.gov>; McCord, James <mccord.james@epa.gov>
Subject: RE: CLAM high volume sampling for organics per your inquiry

Consider I already have 10 POCIS samplers in hose in stead as a proof of concept unless CLAM is that different. Not sure.

Mark

From: Sobus, Jon <Sobus.Jon@epa.gov>
Sent: Tuesday, December 14, 2021 11:17 AM
To: McCord, James <mccord.james@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>
Subject: RE: CLAM high volume sampling for organics per your inquiry

Ok, we're going to attempt to buy 5 to get us started on the AltEn work. But it would be cool if they can do double duty. We're hoping to deploy and send extracts to Angela and Brett, while keep some here. Perhaps even support EDA? Depends on how much final extract we have, I guess. But it's sounding exciting!

From: McCord, James <mccord.james@epa.gov>
Sent: Tuesday, December 14, 2021 11:16 AM
To: Sobus, Jon <Sobus.Jon@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>
Subject: RE: CLAM high volume sampling for organics per your inquiry

No reason it shouldn't. We have worked with passive POCIS samplers before and this is pretty similar.

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James McCord

From: Sobus, Jon <Sobus.Jon@epa.gov>
Sent: Tuesday, December 14, 2021 11:05 AM
To: McCord, James <mccord.james@epa.gov>; Strynar, Mark <Strynar.Mark@epa.gov>
Subject: FW: CLAM high volume sampling for organics per your inquiry

Any chance this would work on PFAS?

From: Blackwell, Brett <Blackwell.Brett@epa.gov>
Sent: Tuesday, December 14, 2021 10:55 AM
To: Ulrich, Elin <Ulrich.Elin@epa.gov>; Sobus, Jon <Sobus.Jon@epa.gov>; Batt, Angela <Batt.Angela@epa.gov>
Subject: FW: CLAM high volume sampling for organics per your inquiry

Here's the company contact and additional info on the samplers

From: Jamie Aderhold <jamie@aqualytical.com>
Sent: Tuesday, November 09, 2021 7:10 PM
To: Blackwell, Brett <Blackwell.Brett@epa.gov>
Cc: Brent Hepner <b.hepner@aqualytical.com>
Subject: CLAM high volume sampling for organics per your inquiry

Hello Brett,
Thank you for your inquiry regarding the use of the CLAM for extracting high volume samples through SPE media in the field to investigate mainly wastewater indicators, pesticides, pharmaceuticals. The custom high capacity CLAM Disks (HLB or C-18) will field extract a volume of water relative to how much and the size distribution of sediment in the water. In cleaner waters, it is common to extract 40-90 liters in a 24 hour deployment and that number goes down with how dirty the matrix is. Even if the CLAM Disk filter is completely plugged on retrieval, the CLAM now has a volume totalizer on board that displays the exact volume of water that was extracted. Because the water is being field extracted, lab modifications cannot be made, so KOW value greatly affects the recoveries of a given compound. Typically, the C-18 is used for pesticides or other compounds with KOWs over 4 with good recoveries and the HLB for more polar compounds with good recoveries down to about a KOW of 2.
Our website has most of the 3rd party papers written on using the CLAM and can be found at:
https://aqualytical.com/water-monitoring-documentation/
The papers on the left side of the field studies (USGS, WADOE, CADPR) would probably be most relevant to your work.
We have just received a new publication from Europe on a novel Non-Targeted approach to determine pesticide and biocide residues in the aquatic environment that used the CLAM for coastal water and drinking water analysis. This document is attached.
NOAA is about to publish some controlled laboratory evaluation of use of the CLAM and field use of the CLAM that is very positive. I could probably provide contacts there if you are interested and might know them.
I have also attached a price list.
How else can I help?
I look forward to corresponding with you in the future.
Thanks again,

Jamie Aderhold
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