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MCRD PARRIS ISLAND
5090.3a

EMAIL REGARDING U S EPA REGION IV COMMENTS ON HUMAN HEALTH RISK FOR FISH
CONSUMPTION FOR THIRD BATTALION POND AT SITE 3 CAUSEWAY LANDFILL MCRD
PARRIS ISLAND SC
5/1/2009
U S EPA REGION IV

From: Llmas.Lila@epamail.epa.gov
To: [Sladic, Mark](#)
Subject: Re: message
Date: Friday, May 01, 2009 4:11:16 PM

FYI -

I actually caught Tim Frederick at his desk on a Friday afternoon. He did not think an HI of 6 (for example) with a lot of uncertainty that explains why this is probably an overestimate (model assumes fish exposed 100% of time where as reality may be much less, etc.) accompanied with a background number estimate resulting in an HI of 5.8 (for example) is that bad of a scenario. He said an HI of 46 would give him much more heartburn, obviously. He stated that he would prefer to use a conservative fish model recommended by a scientist in the field of expertise (NOAA) which overestimates exposure that can be explained in the uncertainties section, rather than a BSAF for an invertebrate that underestimates the exposure and can be explained in the uncertainties. Either way we are using uncertainties, but the fish path seems more appropriate to use for HH fish consumption, than the invertebrate path, especially when considering a bioaccumulative chemical like mercury. Also in the uncertainties section you can discuss how these levels compare locally/regionally based on state data, etc. And hopefully we will get fish tissue concentrations back that show little or no concern and that will be what drives the risk managers decisions. The state seems to think that is what will happen, and they have the most experience with it. However, we do keep getting surprised when we assume we know what the results are going to be. : - 0

For copper, which is largely naturally metabolized in organisms, the invertebrate BSAF is actually a conservative estimate to make (as evidenced by the copper study showing levels to be an order of magnitude less.)

Tim is willing to talk to you and the others more about this, if the need still exists.

Lila

"Sladic, Mark"
<Mark.Sladic@tet
ratech.com>
05/01/2009 03:38
PM
To
Lila Llamas/R4/USEPA/US@EPA
cc
Subject
message

Message rec'd. Makes sense. I won't take the discussion toward the model, but don't know if Navy will. thanks. MS

Mark Sladic, P.E. | Project Manager
Direct: 412.921.8216 | Main: 412.921.7090 | Fax: 412.921.4040
mark.sladic@tetrattech.com

Tetra Tech NUS, Inc
661 Andersen Drive Foster Plaza 7 | Pittsburgh, PA 15220 |
www.ttnus.com,

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