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From: dmayer@tenera.com
Sent: Wednesday, March 25, 2009 1:29 PM
To: Catherine Hagan (George)
Cc: dmayer@tenera.com; Halter, Amanda (OC); Garrett, Christopher (SD); Jansma, Garrett (OC); pmaclaggan@poseidon1.com
Subject: Re:
Attachments: untitled-2

Ms Catherine Hagan. The information and equations in the papers cited below deal in wet weights. The papers are easily available to any California university or college student or professor, for instance Dr. Raimondi. Best regards. David Mayer

Aspects of the Reproduction of the Bat Ray, *Myliobatis californica*, in Central California
 Linda K. Martin; Gregor M. Cailliet
 Copeia, Vol. 1988, No. 3. (Aug. 3, 1988), pp. 754-762.

Age and Growth Determination of the Bat Ray, *Myliobatis californica* Gill, in Central California
 Linda K. Martin; Gregor M. Cailliet
 Copeia, Vol. 1988, No. 3. (Aug. 3, 1988), pp. 762-773.
 >

Dr. Mayer,
 > I am sorry to be obtuse, but I assume that your response also includes the
 > Martin and Cailliet paper (in addition to the 316(b) study) such that the
 > paper also reports wet weights?. I just want to make sure I understand clearly.
 > Thank you for your assistance.
 > Catherin
 >
 > Catherine George Hagan
 > Senior Staff Counsel
 > Office of Chief Counsel
 > State Water Resources Control Board
 > chagan@waterboards.ca.gov
 >
 > *****
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 >
 >
 > e

>>>> <dmayer@tenera.com> 3/25/2009 11:38 AM >>>

>
 > Ms Catherine Hagan. All wet weights, as found in all RWQCB 316(b) impingement studies. Best regards. David Mayer

4/1/2009

>> Dr. Mayer,
>> Thank you for the response. It does not directly answer the question about dry and wet weights which we are hopeful you can answer.
>> Specifically,
>> 1. Are the reported weights of impinged organisms (Tables A and B of Attachment 8, and correspondingly in Tables 5-1, 5-2 and Attachment 3, all in the March 9, 2009 Minimization Plan) reported in dry weight or wet weight? and
>> 2. Are the weights of bat ray pups reported in the Martina and Cailliet paper (i.e., 0.16 kg and 0.21 kg) you reference in dry weight or wet weight?
>> We appreciate your assistance in helping to clarify this information. Thank you.
>> Catherin
>> Catherine George Hagan
>> Senior Staff Counsel
>> Office of Chief Counsel
>> State Water Resources Control Board
>> chagan@waterboards.ca.gov
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>> e
>>>>> <dmayer@tenera.com> 3/25/2009 9:40 AM >>>
>> Ms Catherine Hagan.
>> The bat ray data question that you reference in your email request to L&W
>> as copied below is perfectly consistent with data we have collected in impingement studies at a number of California power plants over the years.
>> I have no reason to doubt the accuracy of the data; in addition, I took the time to actually look at the readily available scientific literature
>> pertinent to the question you seemed to be raising.
>> Here's a sentence quoted verbatim out of the Martina and Cailliet paper on
>> bat rays...
>> "Disc width at birth in bat rays from this study
>> ranged from 220 mm DW (0.16 kg), the size of
>> the smallest free-living specimen collected, to
>> 305 mm DW (0.21 kg), the largest full-term
>> fetus collected."
>> Our bat ray weights are reasonably consistent with Martina and Cailliet reported findings, and I again find no reason to question their accuracy.
>> Please let me know if I am missing your question; I will be glad to look
>> into your question from another point of view.
>> Best regards, David MayerDavid,
>> Do you think you can respond to Catherine Hagan on this point re the accuracy of the weights provided, per my earlier email?
>> Chris
>> _____
From: Garrett, Christopher (SD)
>> Sent: Tuesday, March 24, 2009 6:45 PM
>> To: 'Catherine Hagan (George)'; Philip Wyels
>> Subject: RE: FW: Poseidon project - Raimondi Initial Review
>> I asked Dr. Mayer to get back to you on this issue as well.
>> I believe that he told me today that he had confirmed that the weights presented were correct.

4/1/2009

>>

From: Catherine Hagan (George) [mailto:CHagan@waterboards.ca.gov (

>> compose.php?send_to=CHagan%40waterboards.ca.gov)]

>> Sent: Tuesday, March 24, 2009 5:44 PM

>> To: Garrett, Christopher (SD); Philip Wyels

>> Subject: Re: FW: Poseidon project - Raimondi Initial Review

>> Chris,

>> On a related matter, in the initial review, Dr. Raimondi asks for clarification about the reported weights in the data. He asks: "Are these dry or wet weights (this becomes very important later on). If they are wet they seem low - at least for some species. For example, it was reported that 50 *Myliobatis californica* were in the sample count with a total weight of 20000 grams (20 kg). This means that the average weight was 400 grams. This value is lower than the typical birth weight of a bat ray pup. Indeed the total weight of all the bat rays (20kg) is not much more than the average weight for adults. Obviously the accuracy of the weights is important - especially for the consideration of mitigation and the use of fish production in that assessment."

>> Has anyone from Poseidon or David Mayer gotten back to him to clarify? If not, when do you think they will be able to provide the

>> clarification?

>> Thanks.

>> Catherine

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