

**NOAA-NMFS-2013-0056**  
**Docket No. 130321272-4020-01**

**EXHIBIT A TO THE  
PEER REVIEW COMMENTS  
OF MIAMI SEAQUARIUM**

**May 23, 2014**

**From:** "Mike Ford - NOAA Federal" <mike.ford@noaa.gov>  
**To:** "Lynne Barre - NOAA Federal" <lynne.barre@noaa.gov>  
**Date:** 6/17/2013 10:21:39 AM  
**Subject:** Fwd: Lolita

FYI - I will include this in the status review update.

----- Forwarded message -----

**From:** HOELZEL A.R. <a.r.hoelzel@durham.ac.uk>  
**Date:** Thu, Jun 13, 2013 at 11:19 PM  
**Subject:** RE: Lolita  
**To:** Mike Ford - NOAA Federal <mike.ford@noaa.gov>

Hi Mike, Good to hear from you. Yes - sorry about that! I responded to the call for comments, which I guess you've seen - hope that was useful. Of course if there is some level of gene flow that doesn't preclude the DPS status of the population. With respect to Lolita, she's number 4 on the structure plot in Hoelzel et al 2007 - some evident admixture at that resolution, but falls in best with SR, and has the SR mtDNA haplotype. I never had any reason to think that sample may not fit with the SR population. With respect to the acoustic data, I found when investigating Skana in captivity that although she produced calls from her pod of origin's (K-pod) repertoire, the proportions were very different and the number of calls produced much reduced (see discussion on this in Hoelzel & Osborne 1986 - page 391 in 'Behavioral Biology of Killer Whales'). Hope that helps, Best, Rus

**From:** Mike Ford - NOAA Federal [mailto:mike.ford@noaa.gov]  
**Sent:** 13 June 2013 18:23  
**To:** HOELZEL A.R.  
**Subject:** Lolita

Hi Rus,

I hope you are well. I have been deeply immersed in several of your papers of late, helping NMFS respond to the petition last year to delist the southern residents. It has been fun to really catch up on all the literature again.

On a related note, we are also dealing with a petition to include "Lolita" in the listed southern resident distinct population segment, based on her origin from this population. As far as I can tell, it is clear from the capture records that she originated from the SR population and I do not believe anyone disputes this. However, Lynne Barre at the NMFS Northwest Regional Office mentioned to me that she had heard from someone that you may have done a genetic analysis as well. In the interest of being thorough, I wanted to at least check with you to see if you had any additional genetic-based information on her origins and if so whether there is any reason to believe she is not from the SR population. In the petition itself there is also some speculation as to her exact lineage, based largely (as far as I can tell) on acoustic information. It would be interesting to know if the genetic data are consistent with that. I can send you a copy of the petition in case you are interested and have not seen it (the scanned pdf is very large so I didn't just include it in this email).

Any information you have that you are willing to share (and potentially have cited as a pers com in an FR notice) would be appreciated.

Thanks,

Mike Ford