

## Carter, Katharine@Waterboards

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**From:** Martorano, Nicholas@Waterboards  
**Sent:** Tuesday, April 15, 2014 10:01 AM  
**To:** Abriol, Kevin@Waterboards; Agulto, Eudeline@Waterboards; Bingen, Evan@Waterboards; Booth, Richard@Waterboards; Bucknam, Stephanie@Waterboards; Cali, Alex@Waterboards; Camacho, Steve@Waterboards; Carter, Katharine@Waterboards; Costa, Francisco@Waterboards; Cox, Joanne@Waterboards; Davis, Gene@Waterboards; Feger, Naomi@Waterboards; Fiore-Wagner, Mary@Waterboards; Fitzgerald, Rebecca@Waterboards; Flemming, Terrence@EPA; Gillespie, Stacy@Waterboards; Gorham, Cynthia@Waterboards; Guiliano, Dave@EPA; Hamilton, Mary@Waterboards; Holmes, Lisa@Waterboards; Lichten, Keith@Waterboards; Lim, Jeong-Hee@Waterboards; Loflen, Chad@Waterboards; Looker, Richard@Waterboards; Lunde, Kevin@Waterboards; Martorano, Nicholas@Waterboards; Maxfield, Jessie@Waterboards; McConnell, Sue@Waterboards; Nagoda, Carey@Waterboards; Nilson, Carly@Waterboards; Nye, LB@Waterboards; Pulver, Barry@Waterboards; Rai, Rajmir@Waterboards; Rasmussen, Rik@Waterboards; Rice, William@Waterboards; Rose, Chris@Waterboards; Rowell, Jaclyn@Waterboards; Saiz, Steve@Waterboards; Sandhar, Nirmal@Waterboards; Shukry-Zeywar, Nadim@Waterboards; Simi, Jay@Waterboards; Smythe, Mark@Waterboards; Sussman, Daniel@Waterboards; Voong, Man@Waterboards; Wang, Kangshi@Waterboards; Webber, Lori@Waterboards; Yang, Calvin@Waterboards; Yu, Helen@Waterboards; Zhu, Jun@Waterboards  
**Subject:** AB411 Binomial Listing and Delisting Tables  
**Attachments:** RE: Possible Typo in Table of Exceedance Frequencies; BinomBal\_for AB411\_List.txt; BinomBal\_AB411\_Delist.txt

Hi All,

I just received some clarification from Steve Saiz the father of the binomial distribution table. For AB411 beaches where the exceedance rate is 4% the attached output files apply for listing and delisting respectively. The minimum sample size for both is 22 based on both error rates being below 0.2. For listing you need at least 3 exceedances, for Delisting you would need at least 22 samples with 2 or less exceedances. Let me know if you have any questions.



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