

## Methods Forum –Open Forum Discussion Topics

*Wednesday, February 24, 2016 – Albuquerque, NM*

### Topics Discussed During Open Forum:

1. How to sample product with suspended and non-suspended solids (Kristen in NY)– responses included processes for diluting samples
2. How to dispose of samples after testing – responses included waste stream if not hazardous waste/grounds
3. Dion’s suggestion – Have “Usergroup” workgroup breakouts for various topics – responses included Methods Forum is mechanism
4. Ammonium volatilization (James)– responses included prior to analysis depending on amount of time it sits, should there be directions given in these cases?
5. Dick Camp – Kronos zinc sulfate, Chinese zinc sulfate (contains significant amount of insoluble zinc)...Dick speaking for zinc sulfate manufacturers in US
6. Soluble guarantees – need to have a way to be sure farmers are getting what they pay for. Hugh indicated there was an issue with manganese in FL? Hugh-regulatory needs require total vs. water soluble on tag. Is there a need?
7. Universal Nutrient Extraction procedure (Bill ). There were 4 interested regulatory folks and 5 industry. Those willing to help work on this include Hugh Rodriguez, Thelma ?, Brian ?, Patty Lucas, Dick Camp and Sharon Webb. Discussion included whether to do citrate vs. water soluble for soluble guarantees; oxide vs. sulfate and which nutrients? Mn, Fe, Cu, Zn?
8. Microbial/humic/organic guarantees – Joe Slater-shelf life issue, West coast. Not finding it when tested; species issue. Ryan from Concept Ag – Microbial manufacturer-plating, need antibacterial sols, augers/DNA sequence. Elaine from CA mentioned real time PCR – can see some DNA/RNA but doesn’t tell you if it was alive.
9. For humic/fulvic/SR/microbial testing by commercial labs – James- need for QC sample to be done with it. From additional discussion – backup – not a good method for determining bacterial/fungi/similar species; storage conditions are an issue too-living organisms.
10. Any states testing for analytes/microbials that aren’t supposed to be there?