

Action Opportunities Worksheet



Team: SR/Beneficial

Near Term

Silicon - Champion Steve a preferred method has been identified and being fine-tuned

Methodology proof of SR for nutrients, specifically P - Contact Carolina for additional work on specific products and applications.

SR Micros (polymer coated compound) - 7 day Dissolution test - Use SR, method but may need a new champion. Chinese, Japanese, Scotts,

Engage Sadepan to cooperate with method validation and development.

Contact Bob Ames...

Sampling - Bulk Bag Study Submission
FFAA Study Take Comments ->180 seconds,
Astroturf vs catch pans how much to catch,
Liquids - Don't go there!

Sizing - Sieves vs Auto Sieve vs Electronic,
More BB Workshop, Automated Sieve analysis and calculations

Sample Prep Grinding, recommendations, grind size and Dust control addition impacts micros analysis heat, DCA, impacts SR/CR Colaborators & Samples

Long Term

Identify analytical method for Biochemical substances (byproducts of microorganisms) identify substances and quantify in a concentrate applied to fertilizer or soil (soil amendment now want to claim as a beneficial substance). Range of products that could be registered (e.g. phosphytase enzymes). Add biochemistry additive without organism to see if it is efficacious a problem pull biochemical and analyze. Reference product might show difference in the extract.

Model to correlate EEF's to NUE - Call Dr. Reitz
IPNI/FAR - Collect use and yield/ environmental data
conduct correlation study - **Sounds like a good idea! Pass on to Harold Reetz**

Additive method that would measure products that **extend availability** of nutrients and tests that could validate the effectiveness Bill will find Avail proposed def. email. **Mel the draft Modified Availability Term for SR contact SFP**

Slow Release Water Soluble N
Method develop for measuring controlled release content (HPLC, C 13, NMR) Research CEN Method, contact Hojjatie, Champion- Kurt Gabrielson GP

Slow Release Water Soluble N
Method development to correlate % CRN to soil incubation method - SLV on soil method - possible variation with more soil or other media to increase CEC to assess liquid WSSA materials. Kurt will investigate media to mimic higher retention capacity soils.

VRT Calibration and delivery,

Definitions, SRC, Release of UF and MU's
Need Standard, Salt out temp for Liquid SR materials

Action Priorities Worksheet



Team:

Not Capable/High Priority

Correlate real life /agronomic studies to the soil method

Correlate CR products through blending, handling and spreading

How to engage/test Organic/Natural Mtls.

How do microbial products impact product release for Organic materials

Older methods do not perform with newer products scope/matrix

Size distribution for slow/controlled release materials labeling, sampling and analysis, Correlate CR products through blending, handling and spreading

Capable/High Priority

Correlate AI to new methods

Best practices grinding coated materials

Method for Salt out temp of liquids as NWIP for ISO TC-134

Labeling - Slow Release/Soluble Boron claims and tests also other Micros

How will SR/CR method relate to label claims

Way of having an AAPFCO guidance/site that can be a way aiding consumers in using/understanding products

Not Capable/Low Priority

Capable/Low Priority

Methods - Slow Release/Soluble Boron claims and tests also other Micros by ICP

Method Extension of Sharon's method?



Action Assignments



Team:

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1	Action Idea: Water Soluble Slowly Available N Method develop for measuring controlled release content (HPLC) Research CEN Method	Champion: Contact Kurt	Date Started:
			Target Completion:
WHAT needs to be done?		WHO will do it?	WHEN will it be done? ✓
Contacts , Leon Terlingen, Gary Schmunck & Greg Volgas, Helena Chem.		Mike	06/12 ✓
Develop soil method modification to determine release rate for WSSAN products. Update in 08/09		Bill	06/15 ✓
Research current HPLC methods (US 2003.14 and CEN 15705) for quantitation. May need standards.		Mike	6/12 ✓
Contacts: Claire Reinbergen 800-648-7626 Growth Prod. Call Kurt Gabrielson-770-593-6848 kurt.gabrielson@kochind.com		Bill	3/12 ✓
Complete			✓

2	Action Idea: Methodology proof of SR for nutrients, specifically P & K	Champion: Bill	Date Started:
			Target completion:
WHAT needs to be done?		WHO will do it?	WHEN will it be done? ✓
Contact Dr. Sartain (UF) on specific product applications – support making claims for SR P & K		Bill	5/15 ✓
Plan Accelerated work for Millorganite Total & Available		Bill	04/11 ✓
P & K Research P & K work, IFAS, Max Schlossburg PA, Ostara		Bill	5/15
Provide history of APA		Harold	3/1/15
Research if data supporting SR portion (total – available) of product has agronomic benefit exists.		Bill	05/11

Reg – Can total P be added to the label? Yes , if agronomic data can be provided that the non – “method” available portion is available over time can a SR claim be made? What data would be needed? Joe SR & labeling agenda	Bill/Joe/Teresa + Lynn Sheridan	5/11	√
Research data for biosolids and other organic sources to see if P availability data exists. Contact Converted Organics for data.	Richard	06/12	
Organically complexed S Contact Sola	Bill		
Elemental S as SR S Identify Specific Microbe Thiobacillus Oxidation/conversion rate	Bill		
Contributors – Scotts, Everris, Agrium, Chisso, Sidepan, Florikan, John Deere, Chinese SCU & PSCU, Lebanon, (Methex), ICL	Bill	8/12	
Bill will pull data for P, K , Sec and Micros into one presentation	Bill	8/12	

3	Action Idea: Residual Coatings	Champion:	Date Started:	
			Target Completion:	
WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
Need a protocol describing environmental fate of coating material(s)				
Contact Canada for information		Roger, Alan B.	4/16	
Contact EU- Leon Terlingen (ICL)		Bill	3/16	
Saito JAC in Japan		Bill	6/16	
Jim Jenkins				

4	Sampling – FFAA Study Take Comments ->180 seconds, Astroturf vs catch pans how much to catch,	Champion: Bill - Patty	Date Started:	
			Target Completion:	
WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
Bulk Bag Study Submission, Submit FFAA – Take comments before Phase II; Use Inspection manual as reference Statistical review before beginning > 50g collections 10 composited into one sample X 10 replicates Transport probing – refill each time? Plan Phase III plant scale test - When Where What Blends? Safety? Phase III FL & MO or KY Notify Steve McMurray What Blends to Use Most Popular High AN blend? Contact James McFadden if we want to do a bagging study.		Bill & Bill & Steve	Summer 16	

5	Sizing – Sieves vs Auto Sieve vs Electronic, More BB Workshop, Automated Sieve analysis and calculations	Champion:	Date Started:	
			Target Completion:	
WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
Define SGN and UI through ISO? List of options and equipment – AOAC validation? Sieve vs Electronic study List equipment, suppliers and methods Present comparison of equipment data Email data & Conference call Reference material - ASTM Standard, Beads, paint ball? Excel sieve SGN and UI calculator		Harold & Bill Bill Barbara Ed Linde	4/16 5/16	

6	Sample Prep Grinding, recommendations, grind size and Dust control addition impacts micros analysis heat, DCA, impacts	Champion:	Date Started:	
			Target Completion:	
WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
Collect a list of problems IFA? Review current AOAC & other guidance List equipment (grinders, splitters, and methods)		Paul Eggeman Sharon collect Wade will contact ANSI Patty	7/16	✓

WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
7	VRT Caibration and delivery,	Champion: Joe	Date Started:	
			Target Completion:	
WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
	Survey research and collect Manufacturer John Deer?	Joe	5/16	

8	Action Idea: Correlate AI to new methods James – Max Schlossberg Penn St	Champion: Bill Sartain Max S.	Date Started:	
			Target Completion:	

WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
	Draft Proposal	Bill	05/16	
	Find Funding for Study	Skillen	06/16	
	Get stakeholders together to devise protocol	Jon H.	07/16	
	Collect data	Bill		
	Run Correlation	Bill		
	Report results			

9	Action Idea: Best practices grinding coated materials	Champion: Patty	Date Started:	
			Target Completion:	

WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
	Define problem(s)	Patty		
	Find stakeholders	Joe S.		
	Facilitate/ Brainstorm solutions	Bill		
	Test possible solutions			
	Report data			

10	Action Idea: Method for Salt out temp of liquids	Champion: Michael H.	Date Started:	✓
			Target Completion:	
WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
Define the problem		Mike	3/16	
Gather current methods		Mike	3/16	
Discuss best methodology/solutions @ TAG		Hugh	4/16	
Make NWIP to ISO TC 134		Hugh	5/16	

11	Action Idea: Labeling - Slow Release/Soluble Boron claims and tests also other Micros	Champion: Steve H.	Date Started:	✓
			Target Completion:	
WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
Define the problem		Patty	5/16	
Collect example of problem labels/products		Patty	7/16	
Get on SR agenda for PA		James	8/16	
Get materials in Magruder and Colab. Studies.		Bill/Sharon		

12	Action Idea: Labeling - How will SR/CR method relate to label claims	Champion: Bill H.	Date Started:	✓
			Target Completion:	
WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
Look at current label/labeling approaches		Sandy S.	4/16	
Examine Rule 3 and possible SUIP options/drafts		Jim S.,A. Blaylock, Sandy S., Bill H.	5/16	
Propose the label of the future		Model Documents	8/16	

13	Action Idea: Way of having an AAPFCO guidance/site that can be a way aiding consumers in using/understanding products	Champion: Joe S.	Date Started:	
			Target Completion:	
WHAT needs to be done?		WHO will do it?	WHEN will it be done?	✓
Stakeholders Leon T., Sandy S., Jim S., IPNI, OH Farm Bureau, University(s)?		Joe S. Bill H.	5/16	
Research current sites and how current commercial sites are set up, NUGIS Harold Reitz/Paul F.		Joe S. P. Fixen	6/16	
What do users want? How to find out?		Jim S., TFI	6/16	
Webmaster Melinda Involved		Joe S.	5/16	
Funding options/needs Chesapeake Bay.....		J. Skillen, TFI, IPNI, FTGA	6/16	