

IRRIGATION TRAINING & RESEARCH CENTER

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TECHNICAL MEMORANDUM

Date: June 13, 2014

To: Darrin Polhemus, State Water Resources Control Board

From: Dr. Stuart W. Styles, ITRC Director

Sarah Crable, ITRC Engineer

Subject: Expert Panel Meeting Minutes – June 9, 2014

State Water Resources Control Board Nitrate Expert Panel

Expert Panel Chair, Dr. Charles Burt called the meeting of the Expert Panel to order at approximately 8:00 a.m. on Monday, June 9, 2014 in San Luis Obispo.

1. Introduction – Expert Panel Members

Dr. Lowell Zelinski

Till Angermann

Dr. Charles Burt

James duBois

Bill Brush

Robert Hutmacher

Daniel Munk

Mark McKean

• Public comment process

3. Clarification Item #1...... Darrin Polhemus, State Water Resources Control Board

- Clarified what the State Board is asking the Panel for in terms of solid recommendations
- Clarified Question #2 for Expert Panel: The question is referring to farms, rather than "broad-brush areas"

4.	Discussion: Question 2 Expert Panel
	 Discussed definitions of "risk" and "vulnerability"
	 Discussed irrelevance of size of farming operation
	 Discussed relevance of NHI
	 Discussed nitrogen mass balance
	 Discussed difficulties in quantifying nitrogen applied and removed
	 Discussed objectives of recommendations and concentrating on surface practices
	rather than groundwater monitoring
5.	Discussion: Question 1 Expert Panel
	Discussed NDVI techniques
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	 Discussed tracking of nitrogen applications as reported by farmers
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	"snapshot" tool
	 Discussed crop variations and nitrogen requirements
	 Discussed potential farmer objections to reporting
6.	Discussion: Questions 3-4 Expert Panel
	• Panel requested further clarification from State Board on Questions 3, 4, and 11,
	especially concerning surface waters.
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7.	Public Commenter #1 Steve Shimek, The Otter Project
	Commented on backflow prevention devices
	 Commented on wetlands and riparian habitat for treatment of agricultural waters
8.	Public Commenter #2 George Adam, Innovative Produce
	Commented on nitrate reporting of irrigation water
	 Promoted "pump and fertilize"
	 Commented that Region 3 would not accept 3rd party coalitions
9.	Public Commenter #3 Jennifer Clary, Clean Water Cares
	Commented on nitrogen reporting requirements
	C. I. C. A.
10	. Public Commenter #4 Claire Wineman,
	Grower-Shipper Association of Santa Barbara and San Luis Obispo Counties
	 Commented on risk assessment
	 Commented on 3rd party coalitions
	 Commented on variability in crop types and soils in relation to nitrogen use reporting
11.	. Public Commenter #5 Kirk Schmidt,
	Central Coast Water Quality Control Board
	 Commented on Region 3 cooperative monitoring of surface water in response to panel question

12. Discussion: Questions 5-6..... Expert Panel

- Discussed what farmers need to keep track of in terms of timing and uniformity of water and nitrogen applications
- Discussed data that needs to be collected and reported by farmers
- Emphasized importance of 3rd party coalitions
- Emphasized importance of "spoonfeeding" and "pump and fertilize" techniques
- Discussed farmer education and offering a "menu" of management practices as options, rather than recommendations or requirements

Dr. Charles Burt adjourned the meeting at approximately 5:00 p.m. on June 9, 2014. The next scheduled Expert Panel meeting will be held on June 23, 2014 in San Luis Obispo.