

Central Coast Water Board, July 2021

How to Ask Questions

Workshop

- Everyone's cameras will be off
- Everyone will be muted until Q&A sessions
- We will ask you to unmute yourself when called on for question

Zoom By Computer or App on Phone

Ask Question Via Raising Hand

- Find the "Raise Hand" button on your screen
- Click on it and we will see it



Ask Question Via Chat

- Click on Chat button
- Type in question
- Press return



 Comments entered in Chat will be addressed during Q&A sessions

By Phone Only

- Call 1-669-900-9128
- Enter meeting ID: 948 5172 7854 # when prompted



Please silence your phone

Questions & Comments

- *9 to raise hand
- We will ask you to unmute
 - *6 to mute / unmute





Water Boards

Central Coast Water Board, July 2021

Logistics for Today

- 10-minute break midway
- Q&A at the end of each section
- Raise-hand feature
- Presentation will be posted on our website



Resources Available

ILP website:

https://www.waterboards.ca.gov/centralcoast/water_issues/programs/agwaivers/

- Compliance Calendar
- Frequently Asked Questions
- Technical Assistance Providers and Consultants
- Approved Third-Party Program Administrator:
 Central Coast Water Quality Preservation, Inc. (Preservation, Inc.)
 Inc.)
 support@ccwqp.org

831-240-9533

General Inquiries:

AgNOI@waterboards.ca.gov

805-549-3148

Staff contacts:

https://www.waterboards.ca.gov/centralcoast/water_issues/programs/ag_waivers/docs/ilp_contacts.pdf

Summary of Today's Workshop

- Workshop Objectives
- Agricultural Water Quality Concerns
- Agricultural Order 4.0 Requirements Overview
- Tools and Resources
- Q&A
- Survey

Workshop Objectives

- Overview of Order Requirements
 - Individual
 - Third-Party

 Identify specific requirements due in the next three years







Agricultural Water Quality Concerns

- Irrigation runoff and stormwater runoff
 - Infiltration to groundwater
 - Runoff to surface water bodies
- Groundwater impacts
 - Nitrate
 - 1,2,3-TCP
- Surface water impacts
 - Pesticides and toxicity
 - Nitrogen and other nutrients
 - Sediment

General Requirements

- Enroll
- Update eNOI
- Pay annual permit fees
- Continue water quality education
- Implement and assess effectiveness of management practices
 - Maintain and implement Farm Water Quality Management Plan (Farm Plan)
 - Submit Annual Compliance Form (ACF)







Groundwater Protection Requirements

- Third Party Alternative
 Compliance Pathway Program
- Fertilizer Nitrogen Application
 Targets and Limits
- Nitrogen Discharge to Groundwater Targets and Limits
- Monitoring and Reporting

Third-Party Alternative Compliance Pathway Program

- 3P-ACP Program
- Targets instead of Limits
 - Fertilizer Nitrogen Application Targets
 - Nitrogen Discharge to Groundwater Targets
 - Groundwater Protection Area Targets
- More time to comply
- No ranch-level groundwater discharge monitoring



Fertilizer Nitrogen Application Targets and Limits

- 3P-ACP Program members have targets
- All other growers have limits
- Fertilizer Nitrogen Applied to Each Crop
 - Pounds Nitrogen/Crop Acre



Fertilizer Nitrogen Application Targets and Limits

	2023 Limits	2025 Limits	
Crop	OR	OR	
	2024 Targets 3P-ACP	2026 Targets 3P-ACP	
Lettuce	275	255	
Broccoli	295	280	
Spinach	245	230	
Cauliflower	310	285	
Celery	360	330	
Strawberry	320	295	
All Other Crops	500	480	

(Pounds of Nitrogen/Crop-Acre)



Nitrogen Discharge to Groundwater Targets and Limits

- 3P-ACP Program members have targets
- All other growers have targets and limits
- Total of Nitrogen Discharge From All Crops Grown On Ranch Per Year (Pounds of Nitrogen/ Ranch-Acre)
- (Nitrogen Applied) (Nitrogen Removed) =Nitrogen Discharge
 - Nitrogen Removal Coefficients
- Formulas

Nitrogen Discharge to Groundwater Targets and Limits

Compliance Pathway	Individual: 2023 Targets	Individual: 2025 Targets	Individual: 2027 Limits	Individual: 2051 Limits
A – R = N Discharge (A includes A _{IRR})	500	400	300	50
$A = R$ (A does not include A_{IRR})	A=R	A=R	A=R	A=R
A – R = N Discharge (A does not include A _{IRR})	300	200	100	-150

Nitrogen Discharge to Groundwater Targets and Limits (continued)

Compliance Pathway	3P-ACP: 2024 Targets	3P-ACP: 2026 Targets	3P-ACP: 2028 Targets	3P-ACP: 2051 Targets	
A – R = N Discharge (A includes A _{IRR})	500	400	300	Groundwater Protection Area Targets (To be developed by	
$A = R$ (A does not include A_{IRR})	A=R	A=R	A=R		
$A-R=N$ Discharge (A does not include A_{IRR})	300	200	100	3P-ACP, approved by EO)	

Pounds Nitrogen/Ranch-Acre



Incentives for Reducing Nitrogen Discharge to Groundwater

(Nitrogen Applied) – (Nitrogen Removed) = Nitrogen Discharge

Nitrogen in irrigation water

"Discounts" for reducing Nitrogen Applied

- Organic Fertilizers
- Compost

"Credits" for increasing Nitrogen Removed

 Cover Crops, High Carbon Amendments, Woody Mulch

Groundwater Protection Monitoring and Reporting

- Irrigation & Nutrient Management
- On-Farm Domestic Wells

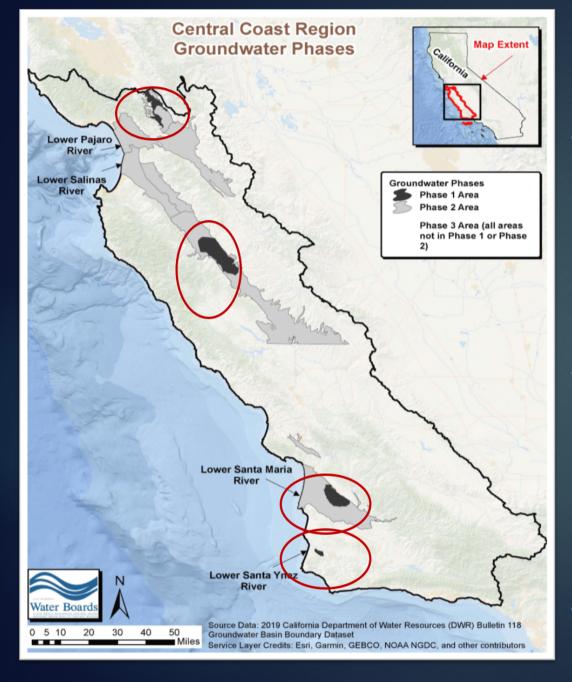
- Irrigation Wells
- Groundwater Quality Trends
- Ranch-Level Groundwater Discharge



Groundwater Phase Areas

- Phasing In of Requirements using Groundwater Phase Areas
- Eventually, all growers must comply with all requirements
- Displayed on ranch eNOI

RE-PRINT THIS FORM		GROWER REQUIREMENTS HELP / INSTRUCTIONS		
IRRIGATED LANDS REGULATORY PROGRAM - NOTICE OF INTENT - GENERAL RANCH INFO				
NOTE: NAVIGATING AWAY FROM THIS FORM BEFORE CLICKING THE ADD THIS RANCH BUTTON MAY CAUSE YOU TO LOSE ALL ENTERED DATA				
Name of Operation:	Test Operation (AW9999) - VIEW OPERATION FORM			
Ranch Name:	Example 1	(Global ID: AGL020027811) GW Phase Area: 1 SW Priority Area: 1		
Section VII: Ranch Status				



Groundwater Phase Areas

- Phase 1 Areas
 - Portions of:
 - Llagas Subbasin of Gilroy-Hollister Valley Basin
 - Forebay and Upper Valley Subbasin
 - Santa Maria River Valley Subbasin
 - Santa Ynez River Valley Basin
- Phase 2 Areas
 - Basins/Subbasins in Phase 1 Areas (different portions)
 - Corralitos Pajaro Valley Subbasin
 - Salinas Valley 180/400 Foot Aquifer Subbasin
 - Salinas Valley East Side Aquifer Subbasin
 - San Luis Obispo Valley Basin
- Phase 3 Areas
 - Remaining non-shaded areas

Irrigation and Nutrient Management Plan (INMP)

TNA Report

- Collect:
 - Nitrogen Applied to Each Crop
 - Fertilizers, Nitrogen in Irrigation Water
 - Irrigation Information (estimated)

INMP Summary Report

- __Collect:
 - Nitrogen Applied to Each Crop
 - Fertilizers, Nitrogen in Irrigation Water
 - Irrigation Information (measured)
 - Nitrogen Removed
- ✓ This data is reported in the TNA Report and/or the INMP Summary Report
- ✓ This data is used to assess nutrient and irrigation management practices with the goal of achieving discharge targets and limits

Irrigation and Nutrient Management Plan – Phasing Timeline

GW Phase I Areas

2023: Collect information for INMP2024: Submit INMP SummaryReport

[REPEAT ANNUALLY]

GW Phase 2 Areas

2023: Collect information for TNA

2024: Submit TNA Report

2024: Collect information for TNA

2025: Submit TNA Report

2025: Collect information for INMP

2026: Submit **INMP Summary**

Report

[REPEAT ANNUALLY]

GW Phase 3 Areas

2023: Collect information for **TNA**

2024: Submit TNA Report

2024: Collect information for TNA

2025: Submit TNA Report

2025: Collect information for **TNA**

2026: Submit TNA Report

2026: Collect information for TNA

2027: Submit TNA Report

2027: Collect information for INMP

2028: Submit **INMP Summary**

Report

[REPEAT ANNUALLY]

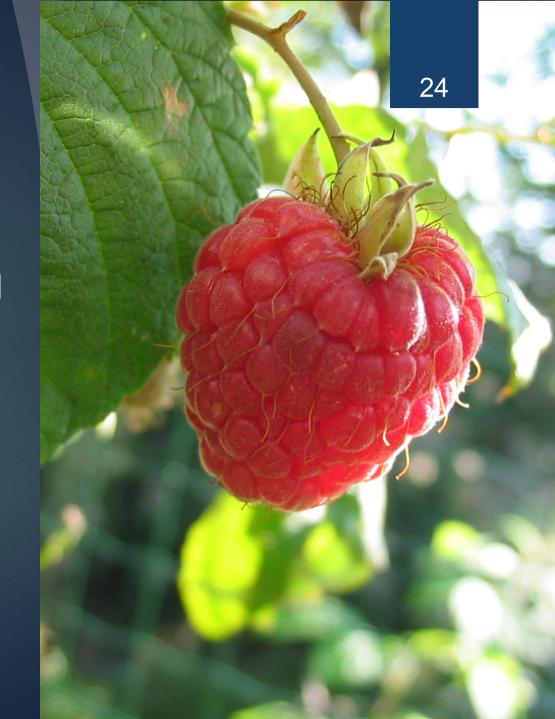


On-Farm Domestic Wells Monitoring and Reporting

- Required of all ranches beginning 2022
- Annual sampling
 - March 1 May 31
- Annual Reporting
 - By July 31
- Nitrate & 1,2,3-TCP
- Drinking water notifications

Primary Irrigation Well Monitoring and Reporting

- Required of all ranches beginning 2022
- Continue until groundwater quality trend monitoring begins
- Annual sampling
 - March 1 May 31
- Annual Reporting
 - By July 31
- Nitrate & TDS



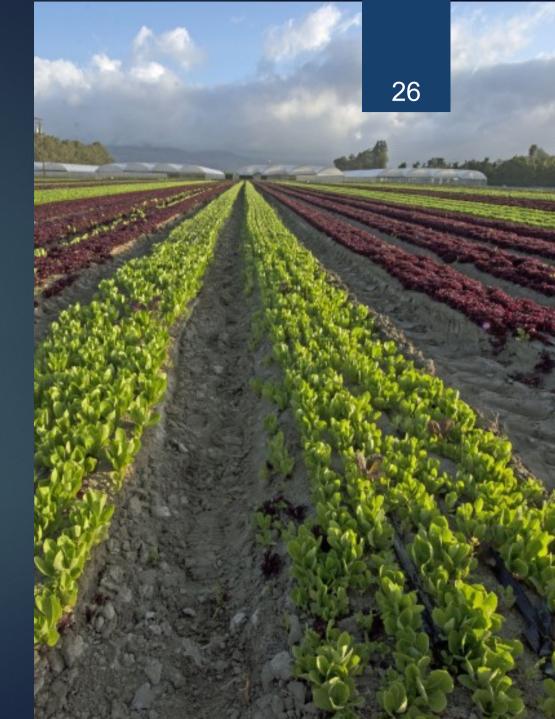


Groundwater Quality Trend Monitoring and Reporting

- Individual or Third-Party Option
- Develop Trend Monitoring Work Plan
 - Timeline per Groundwater Phase Area
 - Define Well Network
- Well Sampling & Reporting
 - Individual: Semi-annual basis
 - Third-Party Program: Per approved work plan
- Trend Evaluation Report

Groundwater Protection: Ranch-Level Groundwater Discharge

- May be required as a consequence
 - Significant and repeated exceedance of nitrogen discharge targets or limits
- Improve management practices
- May be discontinued after targets or limits are met
- Not required for members of the 3P-ACP



Groundwater Protection: Important Takeaways

- Third-Party Program assistance
- Phasing in of some requirements
- Fertilizer nitrogen application targets/limits
- Total nitrogen applied and removed
- Nitrogen discharge targets/limits

- On-farm well sampling
 - Domestic wells
 - Primary irrigation well
- Groundwater quality trend monitoring
- Ranch-level groundwater discharge monitoring





Surface Water Protection: Requirements

Surface Receiving
 Water Limits

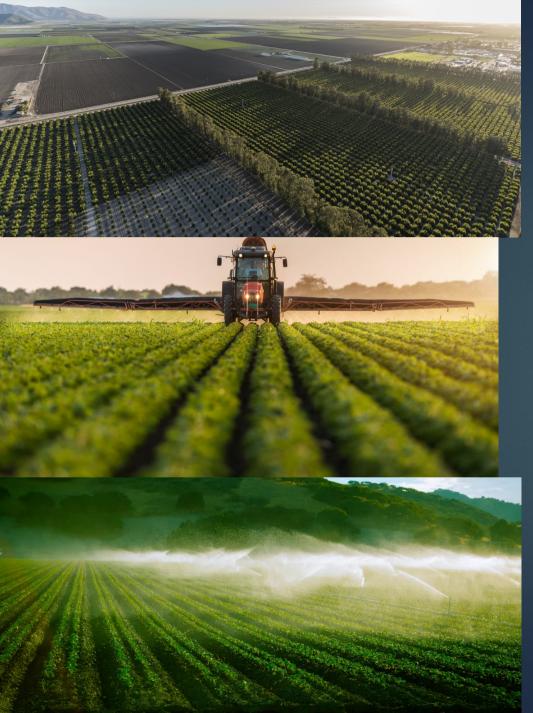
 Monitoring and Reporting



Surface Water Protection: Surface Receiving Water Quality Limits

- Nutrients, pesticides and toxicity, turbidity and sediment
- Timeline
 - First due 2032



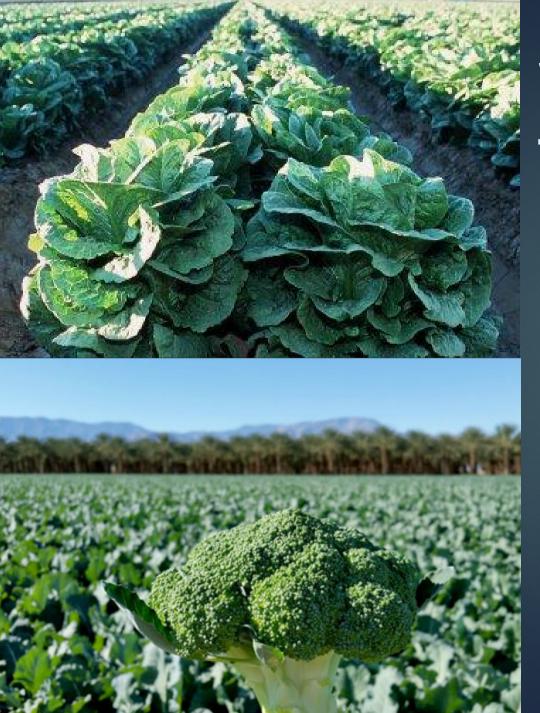


Surface Water Protection: Monitoring and Reporting

Surface Receiving Water Quality Trends

- Follow-Up Surface Receiving Water Implementation
 - Priority Areas

Ranch-Level Surface Discharge

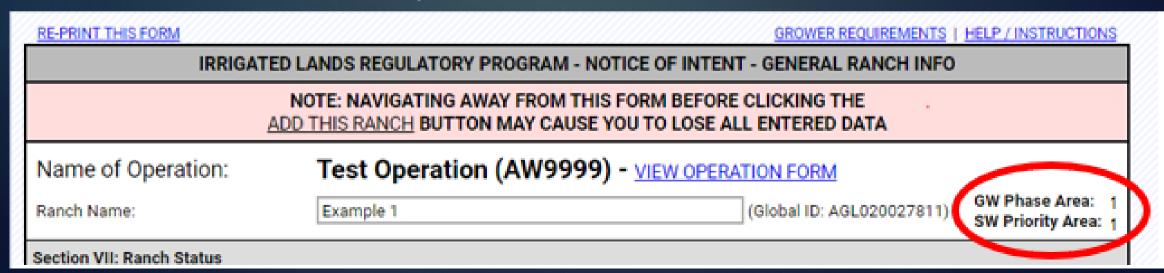


Surface Water Protection: Receiving Water Quality Trends

- Third-Party Program or Individual
 - Submit Work Plan
 - Conduct monitoring
 - Perform data analysis
 - Submit Annual Report

Surface Water Protection: Follow-Up Implementation

- Third-Party Program or Individual
 - Submit Work Plan by Priority Area
 - Displayed on ranch eNOI
 - Conduct follow-up monitoring
 - Implement management practices and assess effectiveness
 - Achieve limits
 - Submit Annual Report





Surface Water Protection: Ranch-Level Surface Discharge

- Third-Party Program or Individual
 - Edge-of-field monitoring
 - May be required as consequence
 - Submit Work Plan
 - May be discontinued after limits are met



Surface Water Protection: Important Takeaways

- Third-Party Program assistance
- Surface Receiving Water Quality Limits
- Surface Receiving Water Quality Trends
- Follow-up Surface Receiving Water Implementation
- Ranch-Level Surface Discharge





Requirements

All ranches

- Update eNOI by September 13, 2021
- Pay permit fees

Ranches required to submit TNA under Ag Order 3.0

 Maintain records to submit TNA Report on March 1, 2022

Annual Requirements

All Ranches

- Pay permit fees
- Submit ACF: by March 1
- Sample on-farm domestic wells
 - Sample: March 1 May 31
 - Report: by July 31

New Requirements

All Ranches

- Sample primary irrigation well (until trend monitoring starts)
 - Sample: March 1 May 31
 - Report: by July 31
- Submit Surface Receiving Water Quality Trends Work Plan: by July 1

Ranches required to submit TNA under Ag Order 3.0

- Submit TNA Report for 2021: by March 1
- Maintain records to submit TNA Report on March 1, 2023

New Requirements

All Ranches

- Sample primary irrigation well (until trend monitoring starts)
 - Sample: March 1 May 31
 - Report: by July 31
- Comply with Fertilizer Nitrogen
 Application Limits (not a 3P-ACP member)
- Comply with Nitrogen Discharge Target (not a 3P-ACP member)

Ranches required to submit TNA under Ag Order 3.0

Submit TNA Report for 2022: by March 1

Ranches in Groundwater Phase 2 and 3 Areas

 Maintain records to submit TNA Report on March 1, 2024

Ranches in Groundwater Phase 1 Areas

- Maintain records to submit INMP Summary Report on March 1, 2024
- Submit Groundwater Trend Monitoring Work Plan:
 by September 1

Ranches in Surface Water Priority Area 1

 Submit Follow-Up Implementation Work Plan: by March 1

New Requirements

All Ranches

- Sample primary irrigation well (until trend monitoring starts)
 - Sample: March 1 May 31
 - Report: by July 31
- Comply with Fertilizer Nitrogen Application Limits (not a 3P-ACP member)
- Comply with Fertilizer Nitrogen
 Application Targets (a 3P-ACP member)
- Comply with Nitrogen Discharge Target

Ranches in Groundwater Phase 1 Areas

- Submit INMP Summary Report: by March 1
- Maintain records to submit INMP Summary Report on March 1, 2025

Ranches in Groundwater Phases 2 and 3 Areas

- Submit TNA Report for 2023: by March 1
- Maintain records to submit TNA Report on March 1, 2025

Ranches in Surface Water Priority Area 2 and High Priority Areas

 Submit Follow-Up Implementation Work Plan: by March 1

Resources

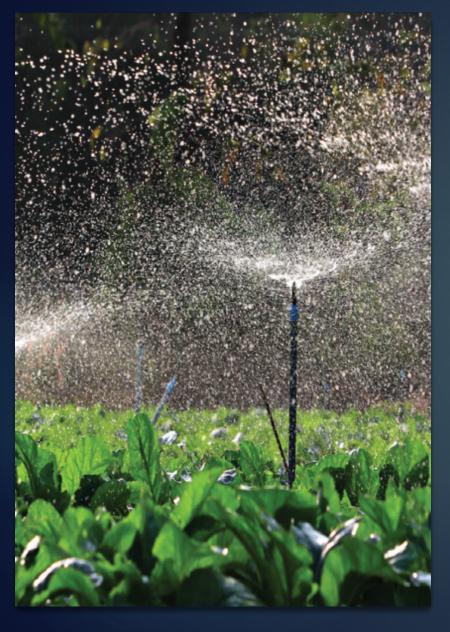
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General Inquiries:

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Resources In Development

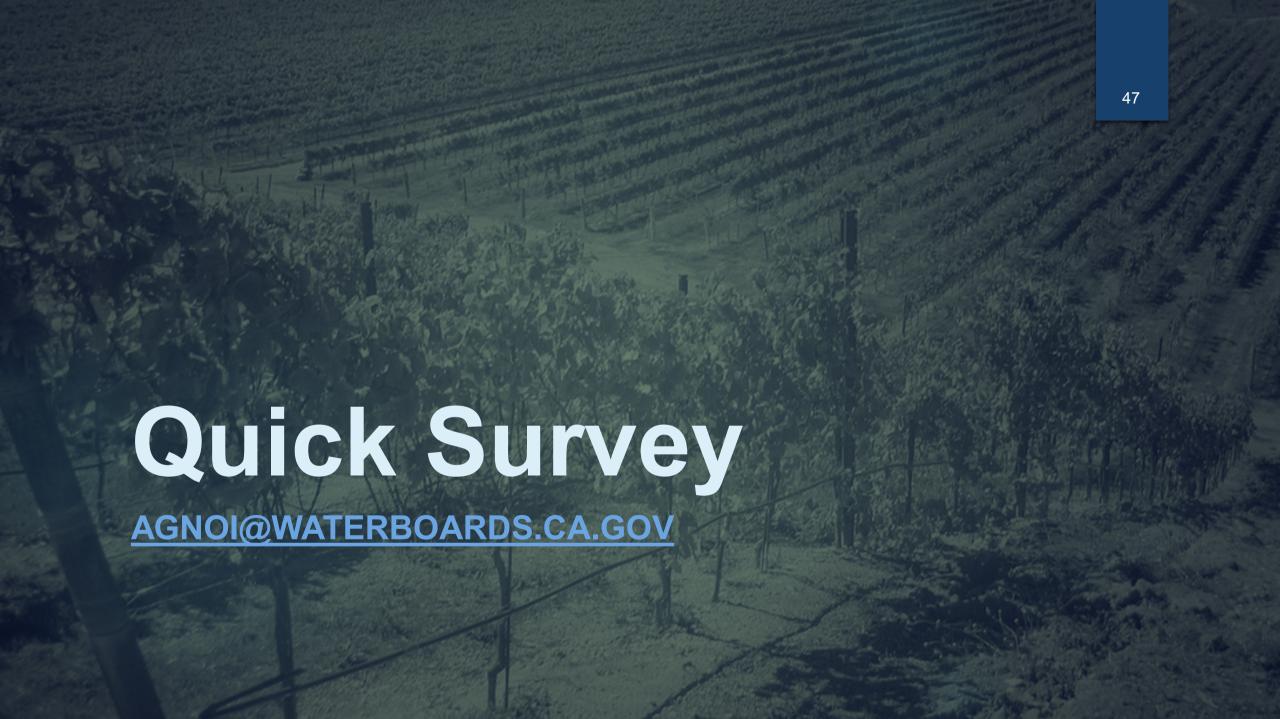
- Drinking Water Notification template
- Individual groundwater trend monitoring work plan template and instructions
- Reporting instructions: ACF, TNA, INMP Summary
- Nitrogen Removal Coefficients
 - Crop Specific (CDFA)
 - Protocols for growers to develop their own (CDFA/UCCE)

Future Workshops

- Third-Party Program Information
- TNA Report
- INMP Summary Report
- Information for Technical Assistance Providers
- Based on grower input







We look forward to hearing from you!

(805) 549-3148

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