

# Food Safety

## Irrigation Water Pathogen Control Plan

Program and Services

Smart and Simple  
Tracking

Organic Product Options



# Approach To FS

Clean water starts at the source and so do we. Meras Water Solutions expertly supports your food safety operation in the field and out. We focus on helping farming operations of all sizes by taking a comprehensive and data-driven approach to irrigation water bacterial control and mitigation using guidelines established by the Food Safety Modernization Act (FSMA), Leafy Greens Marketing Agreement (LGMA), and Good Agricultural Practices (GAP). Meras Water Solutions implements chemistry-driven programs to reduce pathogen levels in open-source water, and reservoirs, for use in overhead and drip irrigation.



## The Meras Program

We have developed a seasonal water treatment program to streamline the process on your farm. Our program makes your life easier by simplifying the tasks into phases. Our holistic approach breaks down the stages of treatment, correlates them with our standard operating procedures (SOP) for each growing month. You will receive a detailed report prior to the growing season and subsequent reporting is available on your personal Smartsheet link. Plus our food safety customer support is always available to help.

- Chemical treatment system installation
- Baseline microbiology testing and analysis
- Routine micro testing.
- 21 days prior to harvest irrigation water testing
- Detailed site performance reports outlining product and water usage
- Superior dosing equipment
- Expert chemical product placement
- Assigned service technician
- Housing and archiving of lab results and other data in an easy to share online portal (Smartsheet)
- All samples are personally delivered to the nearest testing facility, by your assigned technician



Salinas California



## On-Site Service

Our maintenance programs are built specifically for your farm. Our technicians schedule regular visits to your farm where they take inventory of your system's physical health, check for abnormalities and address any concerns you may have.

- Chemical draw-down
- Pump adjustments and repairs if necessary.
- Chemical delivery to treatment system location, transfers, and empty drum removal
- Chemical residual testing at documented locations throughout the irrigation system.
- Irrigation water sampling (both from source and post-treatment) E Coli. and Total coliforms MPN/100ml, compliant to LGMA standards
- Monthly lab analysis to determine reduction value and ensure clean water is being applied.

Other optional services include:

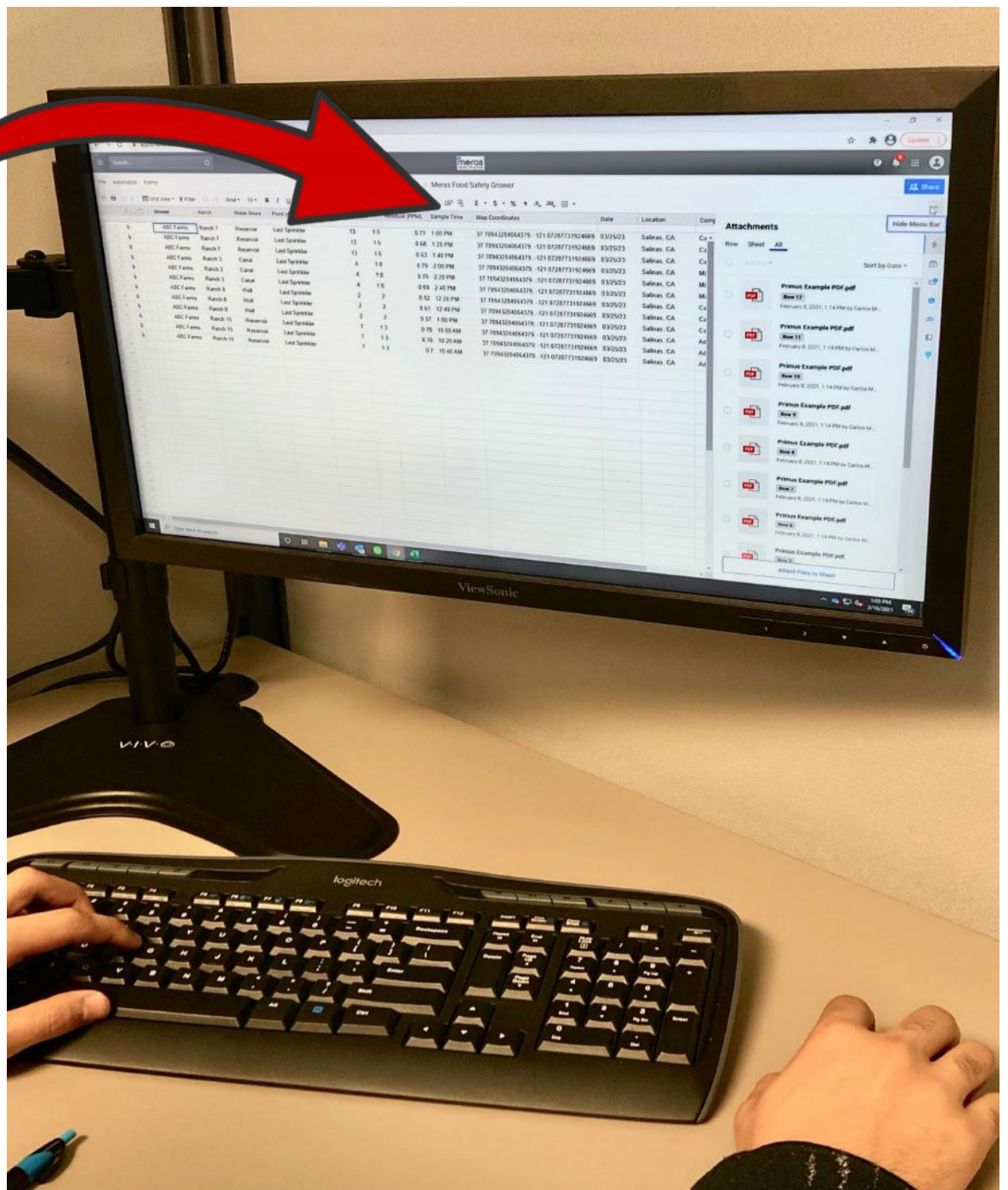
- Soil Drench
- Crop Protection
- Reservoir Remediation
- Packing House/Equipment /Facility Sanitation

# Data Collection and Retrieval

From Farm to Form

Meras Water Solutions believes in making your life as simple as we can. To do this, we utilize Smartsheet, a data-sharing portal, where you will be able to access all your farm's microbiology data. This information can be used for daily operations and/or share with auditors or other stakeholders. Your personal link to Smartsheet will provide you with the following information:

- Water test results
- Our standard operating procedures
- Product labels
- Safety data sheets for each product used on your farm



Viewing personal Smartsheet with lab results

## Smart Sheet

Simplified Data Retrieval

Smartsheet is an online platform accessible through Meras. With this cloud-based system, everything you need is easy to access and your results are just a click away. Lab results are cataloged and can be viewed through Smartsheet under one link. Perfect for sharing with your various stakeholders and/or auditors.

You will receive a link to your personal Smartsheet profile from your account manager.



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# Superior Organic Product Options

CLo2 (Chlorine Dioxide)	PAA ( Peroxyacetic Acid)
Up to a 4log reduction potential	Automated injection with flow pacing
Non-pH dependent Chemistry	Strong oxidation power, available in a variety of concentrations
Two chemistries combined on-site to create CLo2 solutions	Single product injection
Automated flow paced injection	Must be validated with ongoing water samples
Very selective oxidizer which is specific to water pathogens	
Easy to test and document regularly	



**Dependable Service**  
**Superior Product**  
**Easy Reporting**



Start the growing season off right!



**merás**<sup>TM</sup>

**WATER SOLUTIONS**

**Agricultural | Industrial | Food Safety | Legionella**

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