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LUBGWMA Committee Meeting 11

11/09/2023

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HOSTED BY
SALINI SASIDHARAN
OREGON STATE UNIVERSITY

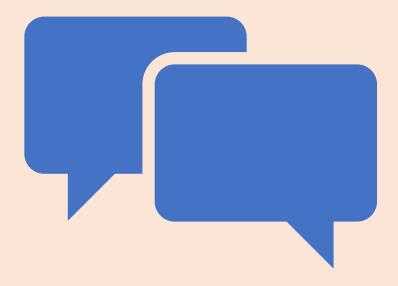
Agenda

Time	Action Item
9:00 am - 9:10 am	Welcome; present agenda and recap. Salini Sasidharan
9:10 am - 9:15 am	Introduction LUBGWMA Committee Members
9:15 am – 9:30 am	Communication Structure Salini Sasidharan
9:30 am – 10:00 am	Update on Roadmap based on Workshop Outcome Salini Sasidharan and HDR
10:00 am – 10:30 am	State Agency +SWCD Update Laura Gleim-DEQ and Kevin Payne
10:30 – 11:00 am	General Update (LUBGWMA Committee/General Public)
11:00 am	Adjourn

Introduction LUBGWMA Committee Members



Communication Structure Salini Sasidharan



LUBGWMA WEBPAGE





Subcommittee Information

Meeting Schedule

Update on Roadmap based on Workshop Outcome

- Salini Sasidharan Oregon State University
- Gregg Jones **HDR**



10:55 am - 11:35 am

Resources

Data

Road Map to Implementation

Research

Stakeholder



Action-Based Categorization for Clear Implementation Roadmap









Groundwater Research and Modeling Best
Management
Practices
(BMPs)
Development
and
Implementation

Education,
Outreach, and
Public
Awareness

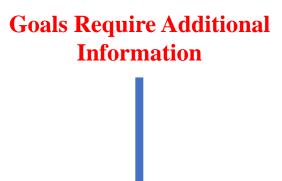
Monitoring and Assessment



Navigating Progress: Goals and Their Current Status

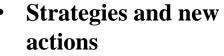


- Feedback
 - Challenges
 - Resources Required
 - Collaboration Required
 - Timeline of Implementation
 - Timeline of Success Indicator



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- Resources Required
- Collaboration Required
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- Timeline of Success Indicator



Feedback

Indicator

Timeline of Success

Lack of Resources



Dedicated Funding: A budget to fund projects, research, and community engagement.



Trained Personnel: Experts to provide technical guidance and drive initiatives.



Strategic Partnerships: Collaborations with agencies and stakeholders.



Access to Quality Data: Reliable data for informed decisions and monitoring.



Communication Platforms: Tools for streamlined committee communication and stakeholder engagement.

Roadmap Framework HDR

What is it?

A clear and readily implementable strategy for how ground water nitrate in the LUBGWMA can be reduced within a reasonable timeframe.

Process

- Promotes organization and coordination
- Strong oversight to drive process forward
- Communications plan
- Dedicated sources of funding
- Incentive-based solutions

Technical

- Divides the LUBGWMA into manageable divisions (pilot project areas).
- Systematically implements small-scale research projects (pilot projects) that apply proven nitrogen reducing BMPS for the major land uses in these areas.
- Does not reinvent the wheel uses what's already in place and what's already been learned.
- Centralized Best Management Practices (BMP) project data base.
- Provides plan to expand BMPs basin-wide

Key Elements of the Roadmap Framework - HDR

Process Elements

- Establish Roles & Responsibilities in Regard to Roadmap Elements
- Establish Effective Oversight
- Strategic Communications Plan

Technical Elements

- Establish Pilot Project Areas
- Identify Appropriate Best Management Practices (BMPs)
- Identify/Recruit Land Use Group Participants
- Identify Researchers to Conduct Pilot Projects
- Implement, Complete and Evaluate Pilot Projects and Promote Successes
- Basin-Wide Implementation

Establish Roles and Responsibilities - HDR

Clarify roles and responsibilities of Committee members in regard to the roadmap elements.

Enhances the existing decision-making process by further defining of the roles and responsibilities.

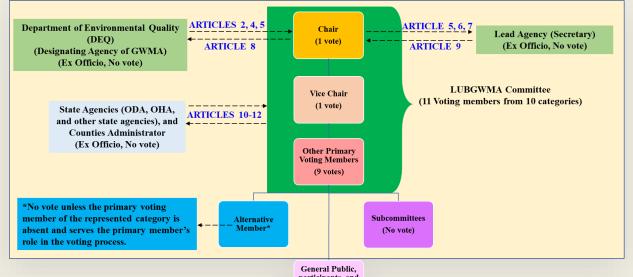
Creates a vision statement to guide the Committee.

- States the Committee's intention and reason for existence.
- Conveys the Committee's values and commitments to achieving its goals.

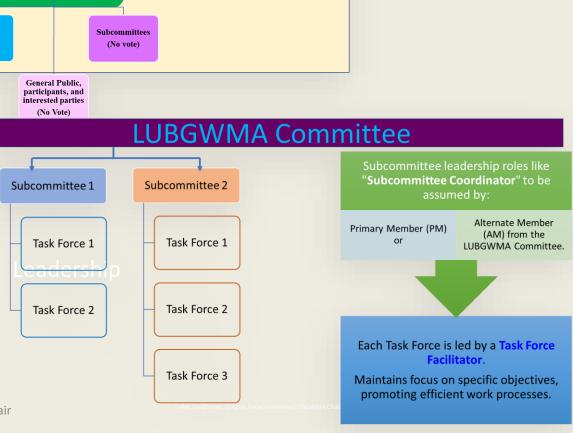
Creates a process to secure dedicated sources of funding

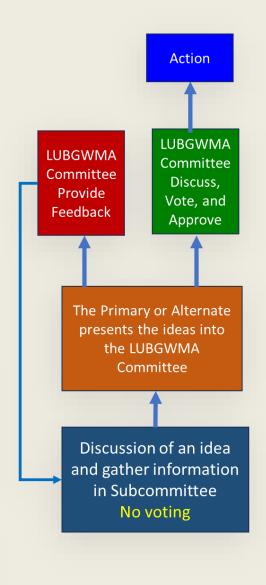
Structure and Decision-Making Process

LUBGWMA Committee Organizational Structure

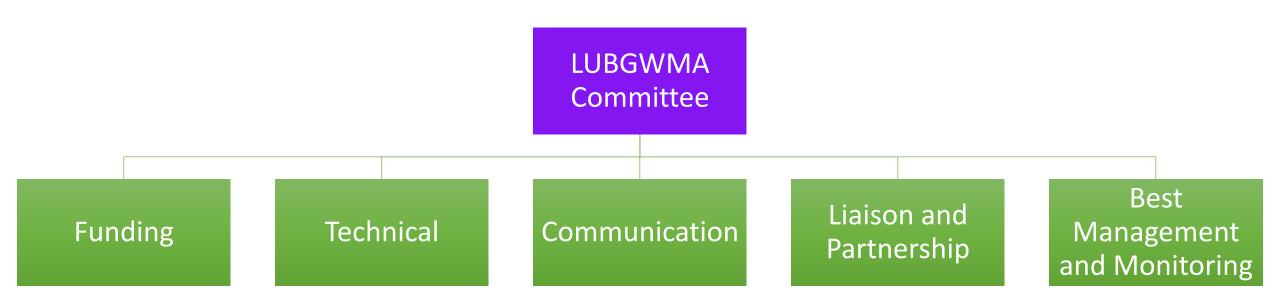


BYLAW Established





LUBGWMA Committee Structure



1. Funding Subcommittee

Objective: To source and allocate financial resources effectively for the overall operations and specific projects of the LUBGWMA Committee.

Subcommittee Coordinator/s:

Dan Dorran (PM)

Gregg Harris(AM)

Task Forces

a. Political/Legislative Funding Task Force

Aim: To cultivate partnerships at State, Federal, Local, Regional, and Private levels, leveraging political and legislative opportunities.

Task Force Facilitator/s: **Gregg Harris (PM)**

b. Research Funding Task Force

Aim: To find collaborative State, Federal, and Private research funds, ensuring sustainable research backing for the LUBGWMA initiatives.

Task Force Facilitator: Salini Sasidharan (PM)

2. Technical Subcommittee

Objective: To gather, analyze, and manage all data relevant to the LUBGWMA, ensuring the Committee's strategies are data-driven.

Subcommittee Coordinator/s:

Salini Sasidharan (PM)

Ian Toevs (AM)

Task Force

a. Hydrogeology of the Basin Task Force

Aim: To continuously study and update the basin's hydrogeological profile, ensuring LUBGWMA's strategies align with current realities.

Task Force Facilitator/s: Salini Sasidharan (PM)

b. Postdoc Task Force

To harness postdoc researchers' research and analytical capabilities for the benefit of LUBGWMA

Task Force Facilitator/s: Dan Dorran (PM)

c. Bylaw Task Force

Task Force Facilitator/s:

3. Communication Subcommittee

Objective: To disseminate information effectively within the LUBGWMA and to external stakeholders, ensuring transparency and fostering partnerships.

Subcommittee Coordinator/s:

Misty Edgecomb (PM)

Debbie Radie (AM)

Task Force

a. Direct Outreach Task Force

Aim: To maintain open channels with stakeholders, using direct interactions to keep them informed and involved.

Task Force Facilitator/s:

b. Formal Communications Task Force

Aim: To ensure that all official communications, announcements, and publications are consistent and accurately reflect the LUBGWMA's stance. This includes the LUBGWMA website and email management.

Task Force Facilitator/s: Salini Sasidharan

Kevin Payne

Laura Gleim

Dan Dorran

4. Liaison and Partnership Subcommittee

Objective: To navigate the regulatory landscape, ensuring LUBGWMA's activities remain compliant and foster strong regulatory partnerships.

Subcommittee Coordinator/s:

Jake Madison (PM)

Karen Lewotsky (AM)

Task Force

a. Nonregulatory Agency Relationship Task Force

Aim: To cultivate and maintain productive relationships with nonregulatory key federal and state agencies as well as, city and county governments, and other local agencies

Task Force Facilitator/s:

b. Regulatory Agency Partners Task Force

Aim: To ensure smooth collaborations with bodies like OWRD, ODA, DEQ, OHA, OWEB, and DOGAMI, aligning the Committee's actions with their guidelines and projects in LUBGWMA.

Task Force Facilitator/s:

5. Best Management and Monitoring Subcommittee

Objective: To oversee and continually refine strategies for monitoring Best Management Practices (BMP) and groundwater quality for LUBGWMA initiatives.

Subcommittee Coordinator/s:

Bob Waldher (PM)

Tamra Mabbott (AM)

Task Force

a. Innovation and Technology in BMP Task Force

Aim: To ensure the LUBGWMA stays at the cutting edge of Best Management Practices (BMP), leveraging the latest technology and innovation.

Task Force Facilitator/s: **Jake Madison**

b. Monitoring Technologies and Tools Task Force

Aim: To explore, evaluate, and recommend the latest monitoring tools, technologies, and software that can be adopted to improve oversight and data collection.

Task Force Facilitator/s: **Gregg Harris**

Establish Effective Oversight - HDR

Appoint an independent, empowered facilitator with the local knowledge, relationships, and skillset necessary to foster efficient leadership.

The facilitator will:

- Lead coordination between the Committee and local governments, land use groups, the public, and interested parties.
- Foster coalition between agencies to reduce overlap, redundancy and conflicts.
- Facilitate consensus on roles, responsibilities, and schedules.
- Facilitate progress tracking and documentation of initiatives.
- Identify disagreements and roadblocks and work to overcome them.
- Coordinate funding efforts between the Committee, agencies, and government.



Trained Personnel/Facilitator:

Experts to provide technical guidance and drive initiatives and act as a liaison between the committee and the state agencies

Develop Strategic Communications Plan - HDR

Inform and Educate Stakeholders About the Actions of the Committee.

- Promote Committee initiatives
- Share progress
- Promote successes
- Build stakeholder support for basin-wide implementation
- Influence elected officials to provide support
- Help establish dedicated funding sources

3. Strategic Communications Plan



Establishment of Communication Subcommittee



Establishment of updated LUBGWMA Webpage



Establishment of Liaison and Partnership Subcommittee

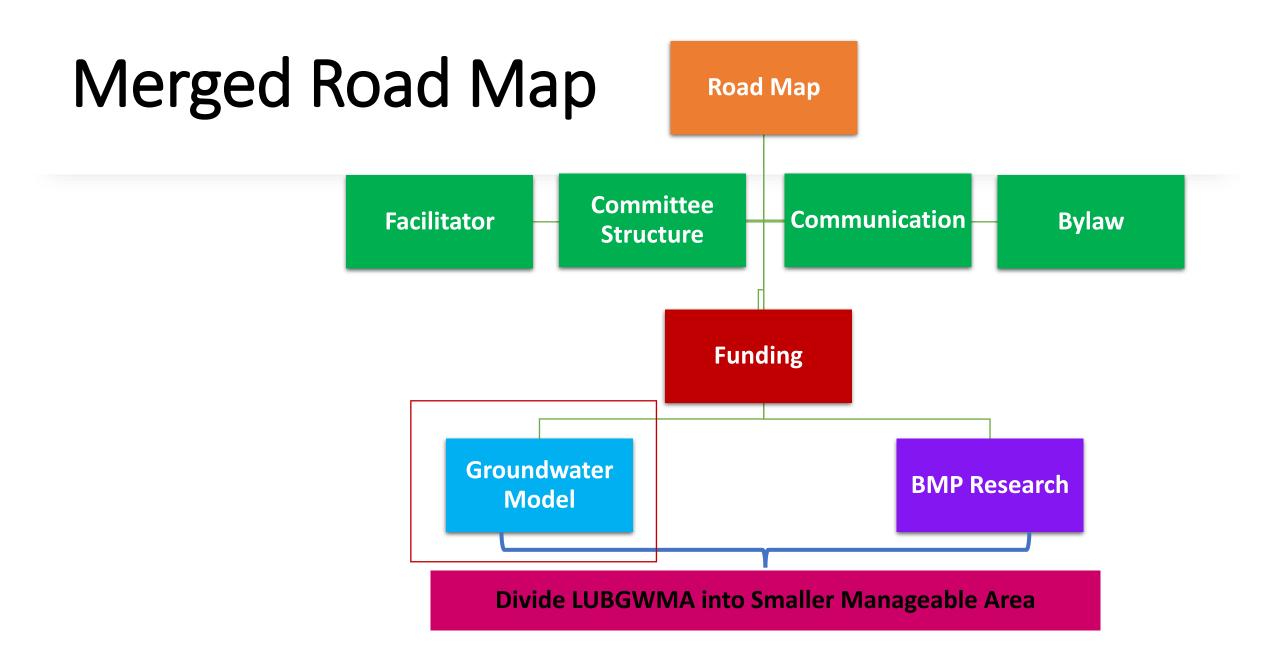
Key Elements of the Roadmap Framework - HDR

Process Elements

- Establish Roles & Responsibilities in Regard to Roadmap Elements
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Technical Elements

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Updated Roadmap Framework

Technical Elements BMP

- Establish Pilot Project Areas
- Identify Appropriate Best Management Practices (BMPs)
- Identify/Recruit Land Use Group Participants
- Identify Researchers to Conduct Pilot Projects
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Technical Elements Groundwater Model

1. Data Compilation

- 1. Hydrogeology, nitrate concentrations, land use, and climate
- 2. Basis for model parameters

2. Conceptual Framework

- 1. Groundwater-nitrate interaction and source mapping
- 2. Visualization of flow and contamination paths

3. Model Configuration

- 1. Software selection (e.g., MODFLOW, MT3DMS)
- 2. Calibration against observed data

4. Model Testing

- 1. Independent data validation
- 2. Uncertainty and sensitivity analysis

5. Scenario Evaluation

- 1. Impact of land use and management changes
- 2. Predictive outcomes for decision support

Divide LUBGWMA into Smaller Manageable Area

OSU
Hydrogeology
Conceptual
Model

Existing
Monitoring
Network

ODA
Strategic
Implementation
Area

Existing BMP locations

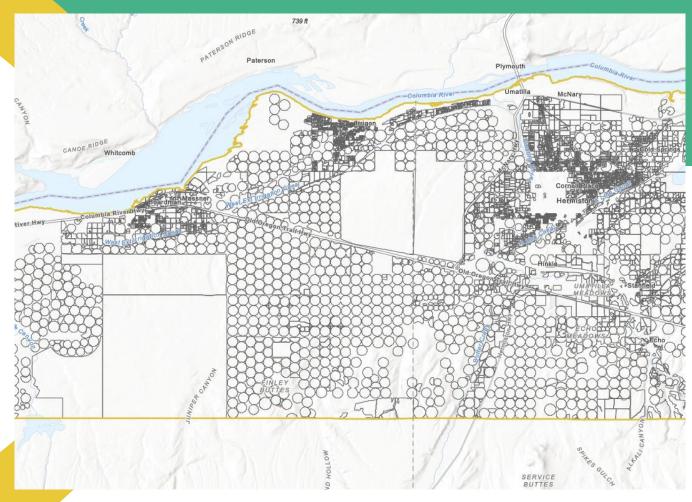
Establish Pilot Project Areas - HDR

Basin will be divided into small manageable areas where best management practice (BMP) projects can be implemented and carefully studied for all the major land uses.

- Technical representatives of the Committee will collaborate to establish criteria for pilot project areas.
- Pilot project areas will be chosen where sufficient availability of data exists to minimize the need for additional data collection.
- An inventory of BMPs that are currently in place and in progress will be compiled and integrated into the pilot project area process.
- New BMPs must have been successfully implemented in other areas with similar climate, soils, hydrogeology, irrigation practices, subdivision densities, CAFO densities, etc.
- Centralized data base will be created to store and manage all aspects of existing and new BMP project data. A data base manager will be identified to receive, upload, manage, and report on the BMP data.

LUBGWMA Update 11-09-2023

- Update Ag WQ Area Plans
- Groundwater Strategic Implementation Area
- WaterSMART Grant
- Crop & Sprinkler Inventory





Willow Creek & Umatilla Ag Water Quality Management Area Plans



Updating Plans Now



Goal to include focused efforts on groundwater and groundwater measurable objectives



Finalization with Local Advisory Committee
Target Date:

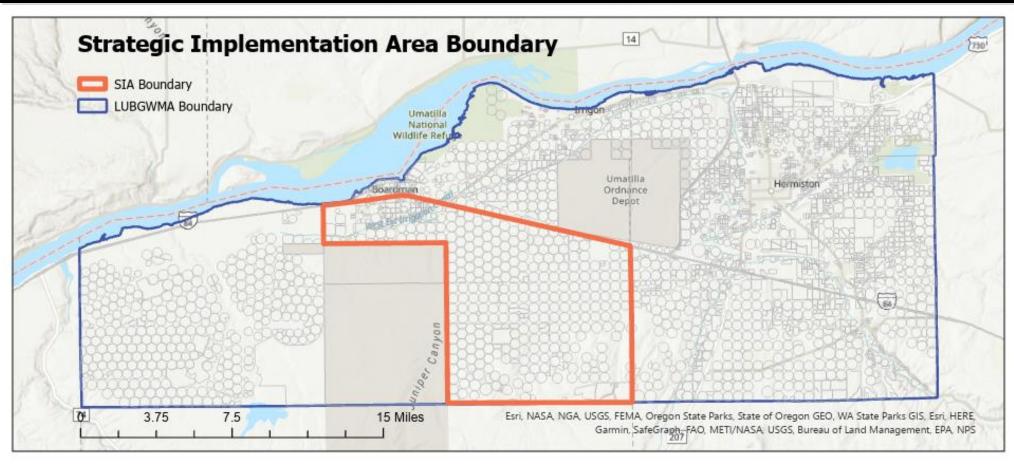
January, 2024

ODA LUBGWMA Irrigated Ag SIA (Strategic Implementation Area) Partner - Morrow SWCD Listen, Learn, Assist, Demonstrate

• *Listen* to what Irrigation Management practices are being utilized

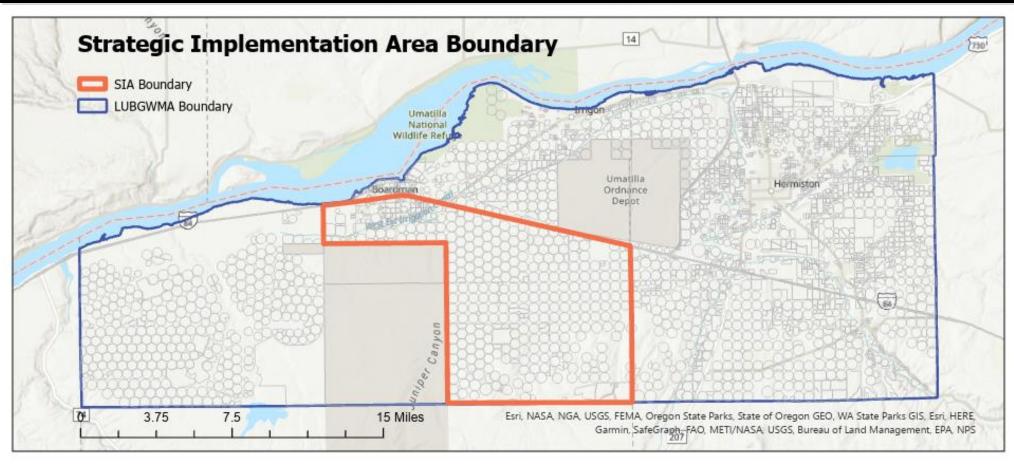
- *Learn* the local Ag inputs, processer inputs, and market hurdles
- Assist growers with Management Plans and obtaining management monitoring tools
 - Demonstrate Irrigated Ag utilizing effective irrigation management for the Community

LUBGWMA SIA Area Preliminary





LUBGWMA SIA Area Preliminary





WaterSMART Grant Application

Partner (SWCD) Communication

Design and develop a partner (SWCD) data website hub that allows data entry (crop & sprinkler, practices completed (SOW Data)) and analysis for increased efficiency of analysis and data sharing.

Public Communication

Design and develop a public information hub, with direct engagement of stakeholders by a community outreach effort to obtain content feedback on public water quality data for ag landowners, Tribal governments, cities and county governments.



WaterSMART Grant Application

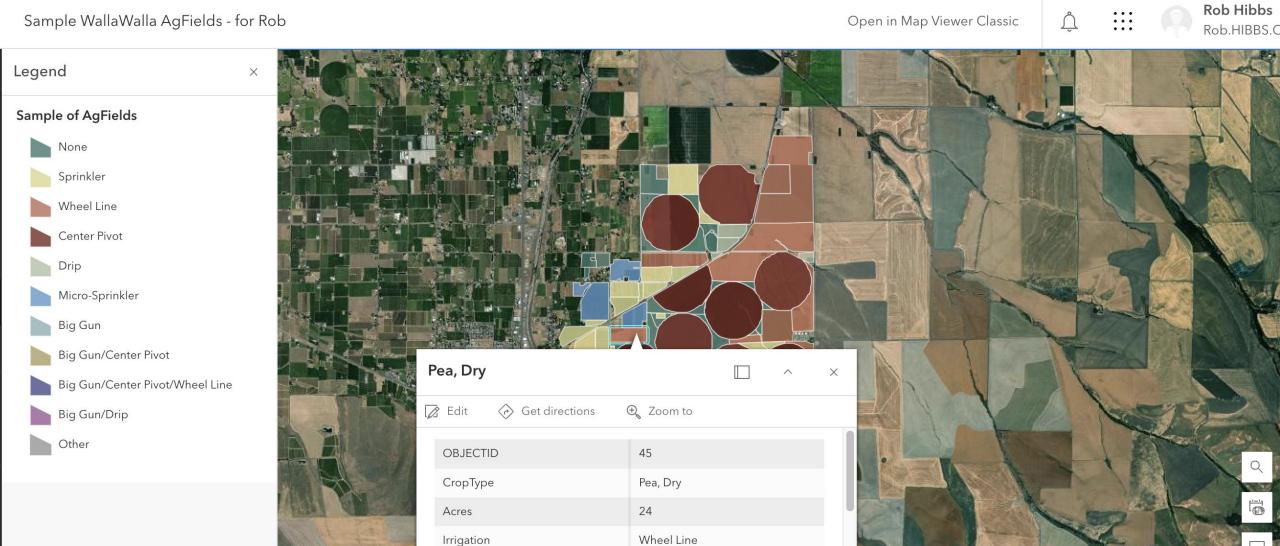
Crop & Sprinkler Inventory Web Display/Tools

Create an accurate, viewable crop and sprinkler type inventory website layer for analysis, quantification of water and nutrient loading potentials, and data for irrigation/nutrient management practices.

Nitrate Utilization & Leaching Sampling

Utilize contractors/OSU to develop and implement a nitrogen utilization and/or leaching potential study on irrigated lands within the LUBGWMA.

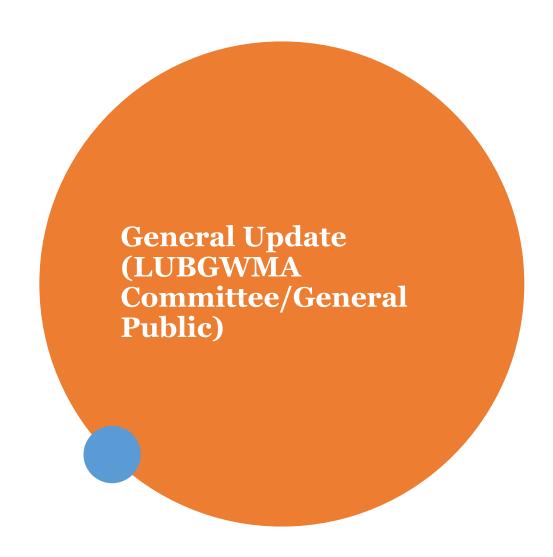




8/8/2016, 5:00 PM

Crop and Sprinkler Type Inventory – by Morrow SWCD

InitialSurveyDate



10:30 – 11:00 am

Next Meeting – Virtual Only

December 9th – 9:00 * am to 11:00 am