



LUBGWMA Committee Meeting 9

09/08/2023


HYBRID

750 WEST ELM AVENUE,
HERMISTON, OR 97838

HOSTED BY
SALINI SASIDHARAN
OREGON STATE UNIVERSITY

Agenda

Time	Action Item
11:00 am -11:05 am	Welcome; present agenda and recap. Salini Sasidharan
11:05 am – 11:10 am	Introduction LUBGWMA Committee Members
11:10 am –11:20 am	Industry Member, Appointment DEQ
11:20 am– 12:00 pm	Workshop Summary Salini Sasidharan
12:00 pm – 12:30 pm	Break
12:30 pm – 12:45 pm	Introduction to Potential Subcommittee Salini Sasidharan
12:45 pm – 1:45 pm	Discussion and Subcommittee Formation LUBGWMA Committee Members and Public
2:00 pm	Adjourn



Industry Member Appointment
11:10 am – 11:20 am



Thank you Brian Crawford

Industry Primary

Ian Toevs

WORK EXPERIENCE

- **October 2011 – Present: Lamb Weston, Inc.**
 - Jan 2023 – Present: Director, Natural Resources Conservation; Kennewick, WA
 - Jan 2021 – Jan 2023: Director, Environment, Health, and Safety (EHS) Capability; Kennewick, WA
 - Oct 2018 – Jan 2021: Director, Environment; Kennewick, WA
 - Jun 2014 – Oct 2018: Corporate Manager, Energy & Environment; Kennewick, WA
 - Oct 2011 – Jun 2014: Facility Manager, Energy & Environment; Twin Falls, ID

Advisory Committees:

- **Morrow County Water Advisory Board:** Multi-disciplinary group appointed by the Morrow County commissioners to advise on water related issues and challenges within the County
- **City of Twin Falls Wastewater Advisory Committee:** A group of citizens, business owners, and industry partners formed by the City to advise on the strategic roadmap for the Publicly Owned Treatment

Relevant Experience

Environmental Engineering Design and Construction Oversight – design/contributing engineer for projects in the following areas:

- Wastewater treatment system improvements
- Stormwater treatment systems
- Air pollution control equipment
- Petroleum bulk storage and dispensing systems installation and underground petroleum bulk storage tank removals
- Chemical bulk storage systems
- Brownfield (New York State “superfund site” equivalent) remediation and restoration projects
- Animal waste management systems per Natural Resources Conservation Service (NRCS) specifications


Environmental Subsurface Soil Investigation - oversight and sample logging during the installation of soil borings and monitoring wells

Groundwater Monitoring Well Installation - oversight and well logging during drilling and well completion

Environmental Monitoring – collection of wastewater, soil, water, and air quality samples for laboratory analysis; management of data and analysis of results compared against regulatory standards

Modeling – re-creation of model presented in research publications to predict the transport of naturally occurring radioactive materials in solid waste landfills; perform air emissions calculations for solid waste landfills, heavy construction equipment, and stationary sources

Contaminant Transport Modeling in Soils: research project modeling pesticide transport in the soil to determine relative risk factors for domestic well water contamination



**LUBGWMA
Committee
Workshop 1
Summary**

08/17/2023

Port of Morrow Riverfront Center

Hosted By

Salini Sasidharan

**Oregon State University
LUBGWMA Committee Chair**



Reflecting on a Year of Progress

Milestones:

- **Established Bylaws:** Strengthened our operational foundation through collaborative bylaw enhancements.
- **Updated Structure:** Restructured the committee for improved synergy and effective goal achievement.
- **Expanded Membership:** Enriched our voting membership, embracing diverse perspectives and expertise.
- **Revitalized Webpage:** Renewed our online presence, engaging stakeholders and sharing information effectively.
- **Successful Workshop:** Orchestrated an impactful regional workshop uniting experts for innovative solutions and shared learning.



**Help to
Build an
Actionable
Roadmap
to Success**



**Identify
Our
Priorities,
Goals,
Solutions,
and
Resources**

**Reduce the Nitrate
Concentration Less than 7 mg/L
in the groundwater at
LUBGWMA**



Sponsors

Other Support

[\$3647]

Total Cost: 5897



**Oregon State
University**

In partnership with the OSU Foundation



Food and Venue Logistics



[\$1000]



[\$1250]

Salini Sasidharan, Oregon State University/LUBGWMA Chair



Venue for Free



IT Support

Participants (50+) and Speakers (20)

Welcome

Speaker: Salini Sasidharan (Oregon State University)

Workshop Overview and Outcomes

Speaker: Timothy Corey (Colibri Facilitation)

Eastern Oregon and LUBGWMA History

Speakers:

- Lyndsi Lewis: Tribal History of Eastern Oregon (CTUIR)
- Justin Green: History of Lower Umatilla Basin (JustinGreen Consultancy)

State Agency's Responsibilities in Bringing Solutions to LUBGWMA

Panel:

- Laura Gleim, Oregon Department of Environmental Quality
- Robb Hibbs, Oregon Department of Agriculture
- Chris Kowitz, Oregon Water Resources Department
- Russell Kazmierczak and Gabriela Goldfarb, Oregon Health Authority
- Kevin Payne, Morrow County Soil Water Conservation District

Success Stories, Solutions, and Obstacles from Elsewhere

Speakers:

- Matt Kohlbecker (GSIWS)
- JR Cook (NOWA)
- Gregg Jones (HDR)

Road Map to Implementation

Speakers:

- Salini Sasidharan (OSU)
- Gregg Jones (HDR)

Forensic Hydrology: An Investigation of LUBGWMA

Speakers:

- Salini Sasidharan (OSU)
- Suraj Jena (OSU)
- Discussion: Suraj Jena, Todd Jarvis(IWW), Salini Sasidharan (OSU)

Best Management Practices in LUBGWMA

Speakers:

- Jake Madison : A Perspective from Production Agriculture
- Gregg Harris : A Perspective from Confined Animal Feeding Operation
- Darrell Gale : A Perspective from the City of Irrigon
- Debbie Radie : A Perspective from the Industry – Indirect through Port of Morrow
- Tom Straughan : A Perspective from Livestock

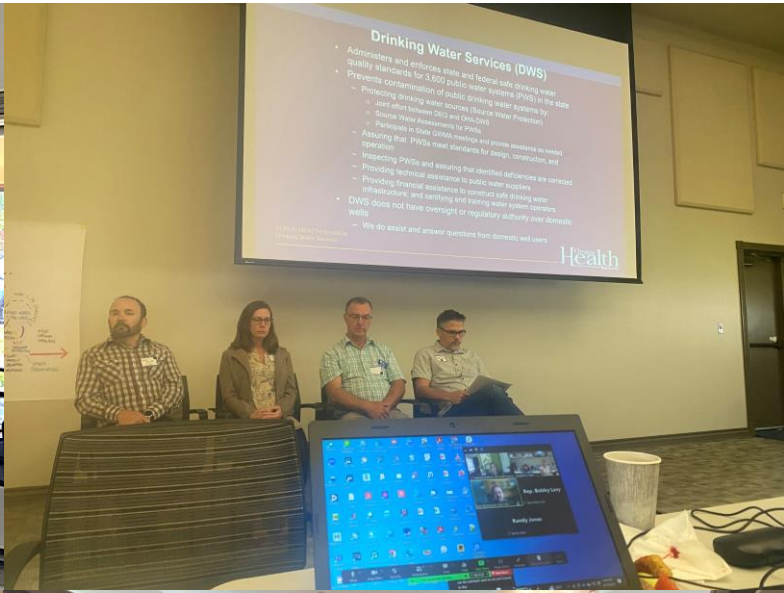
Evaluation of the Second Action Plan and Prioritization of Goals (World Café)

- All Participants: Breakout Session and Discussion

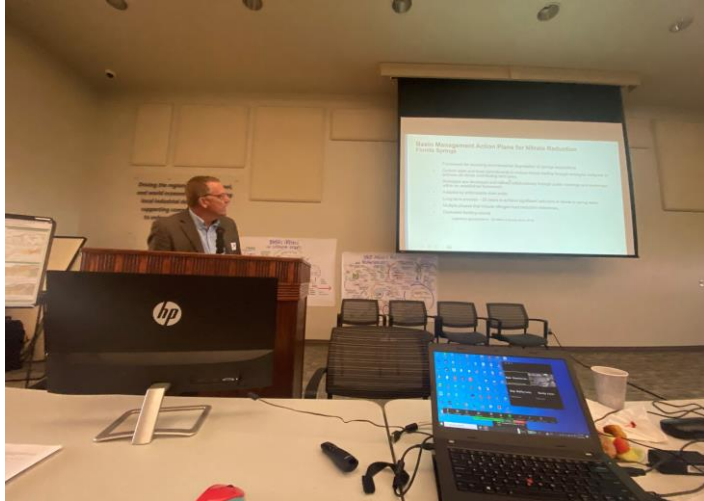
Recap and Step Forward

Speakers:

- Timothy Corey, Salini Sasidharan, HDR



Salini Sasidharan, Oregon State University/LUBGWMA Chair



Salini Sasidharan, Oregon State University/LUBGWMA Chair

Workshop Output

**Eastern Oregon
and LUBGWMA
History**

**State Agency's
Responsibilities**

**Success Stories,
Solutions, and
Obstacles**

**Road Map to
Implementation**

**Forensic
Hydrology: An
Investigation**

**Best Management
Practices in
LUBGWMA**

**Presentation,
Panel, and
Discussion**

**Evaluation of the
Second Action
Plan**

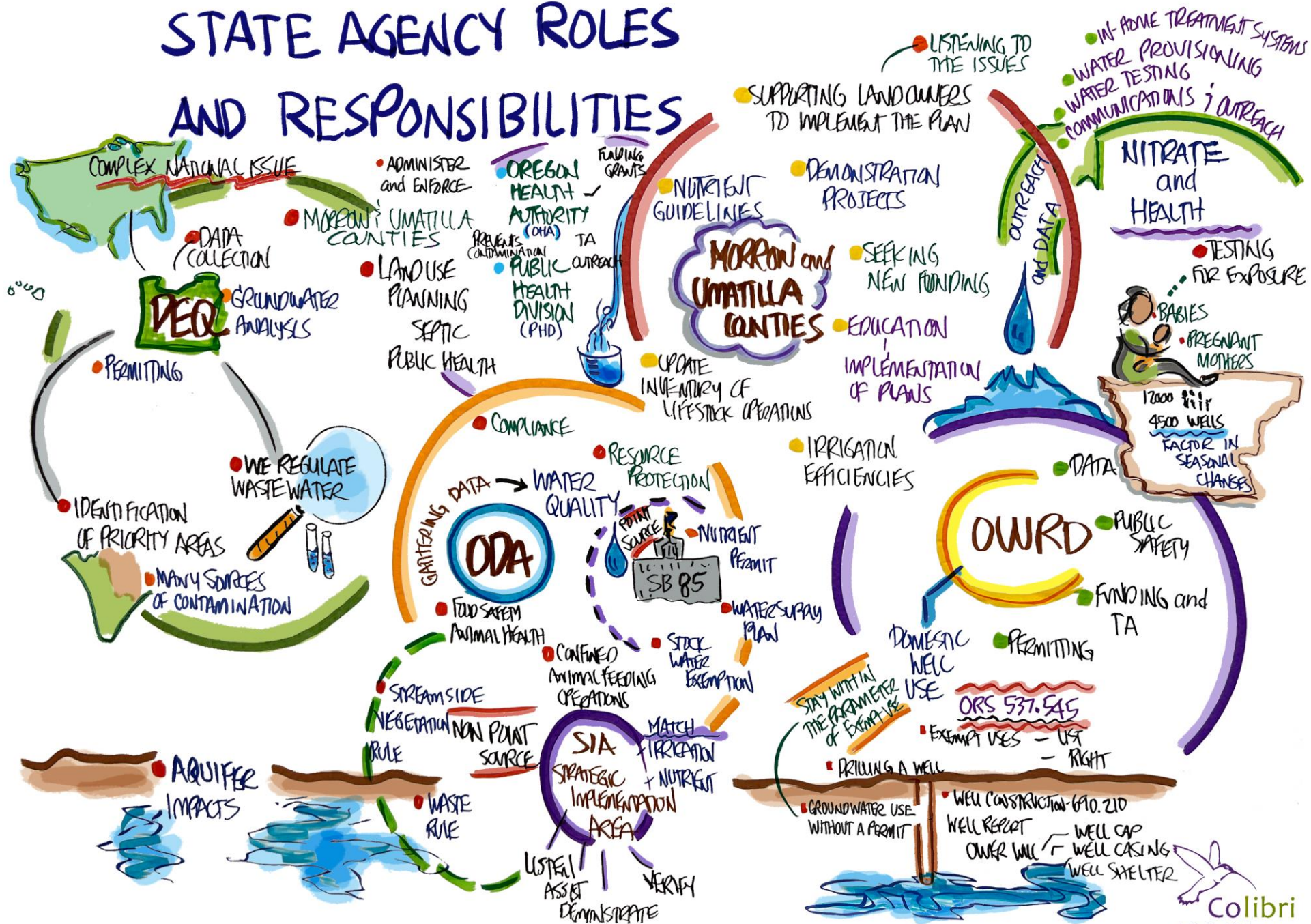
**Recap and Step
Forward**

**World Café
Activity**

EASTERN OREGON and LUBGWMA HISTORY



STATE AGENCY ROLES AND RESPONSIBILITIES



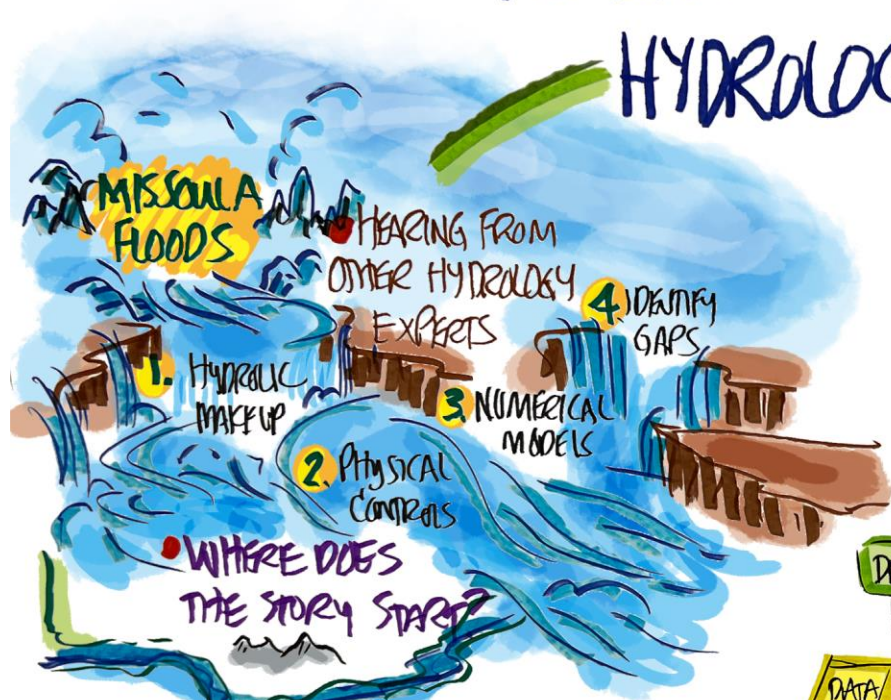
SUCCESS STORIES SOLUTIONS and OBSTACLES



ROAD MAP TO IMPLEMENTATION



FORENSIC HYDROLOGY

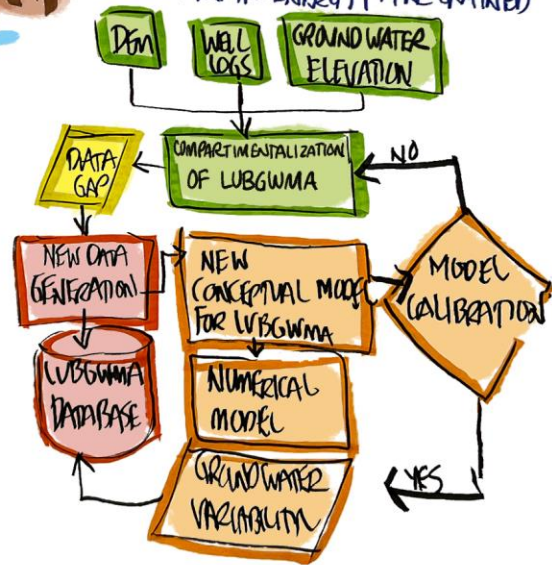


• WHERE DOES THE STORY START?

• FORENSIC EVIDENCE: CHANNEL BELTS UNDER LAKE UMATILLA

KEY WORDS IN OUR HYPOTHESIS

FOLDS, FAULTS, BURIED CHANNEL BELTS, LOW PERMEABILITY FINE-GRAINED, FLOOD EVENTS, KINETIC ENERGY, FINE GRAINED



CONCLUSIONS

- STRUCTURAL GEOLOGY LIKE FOLD AND FAULTS CAN BE THE BARRIERS TO THE GROUNDWATER FLOW
- THE CHANNEL BELTS WITH LOW PERMEABLE DEPOSITS ACT AS A BARRIER TO GROUNDWATER FLOW
- THE POTENTIAL COMPARTMENTS GENERATED ARE ISOLATED GROUNDWATER GROUNDWATER SYSTEMS AND THEIR BOUNDARY REFINEMENT NEEDS ADDITIONAL INVESTIGATION

BEST MANAGEMENT PRACTICES

PERSPECTIVES



Evaluation of the Second Action Plan and Prioritization of Goals (World Café) All Participants: Breakout Session and Discussion



Question 1

Considering the voluntary nature of the LUBGWMA Committee and our limited resources in terms of personnel and funds, which specific action plans and goals (22) from the Second Action Plan should we prioritize to maximize the committee's effectiveness?

Irrigated Agriculture

Goal 1: Procure funding for a United States Geological Survey (USGS) to study, characterize, and develop a comprehensive groundwater and hydrology transport model for the Lower Umatilla Basin.

Goal 2: Procure funding to develop and market a voluntary BMP certification program to inventory and document the extent of BMP implementation in the basin.

Goal 3: Research, catalog, and publish on the effectiveness of current agronomic best management practices (BMPs) in reducing nitrate contamination of groundwater.

Goal 4: Create and maintain an online list of reference materials which recommend best management practices and strategies to reduce nitrate loading for targeted crops and conditions in the Lower Umatilla Basin, as well as materials associated with soil health, conservation, and sustainable farming practices.

Goal 5: Determine what monitoring methods and frequencies are most efficient and effective at helping growers manage in-season water and fertility resources for crops commonly grown in the Basin. Continue to fund research, education, and outreach to improve and encourage the adoption of agronomic BMPs by growers within the Basin

Goal 6: Develop criteria for achieving GWMA repeal in ORS 468B.188 “Repeal of declaration of groundwater management area”.

Goal 7: Create an Interagency Task Force to achieve groundwater management goals of the irrigated agricultural community.

Goal 8: Evaluate the feasibility of a nitrogen mass-balance model and biogeochemical research projects that would spatially identify nitrogen loading in support of Goal 9.

Goal 9: Evaluate the feasibility of re-defining the LUBGWMA into smaller sections based upon land use, a USGS hydrogeology transport, model and possibly a nitrogen mass-balance model.

Food Processing Wastewater

Goal 10: Assess and adopt best management practices for land application of Food Processing Wastewater

Goal 11: Minimize site conditions and land application practices that increase the chance of leaching nitrate to groundwater at the Food Processing Wastewater

Rural, Open, and Green Spaces

Goal 12: Achieve an increased level of knowledge and cooperation around groundwater quality resulting in reduction of nitrate levels.

Goal 13: Reduce nitrate concentrations by implementing best practices in residential, open and green space areas.

Goal 14: Reduce the nitrate concentration from septic systems.

Goal 15: Reduce the potential for contamination of wells; conduct analytical testing for nitrates in domestic wells and educational outreach to domestic well owners on point-of-use treatment options.

Goal 16: Provide technical support for local governing bodies to adopt rules in accordance with Oregon statute.

Confined Animal Feeding Operations

Goal 17: Collect, contain, treat and/or store manure and process wastewater at CAFOs in a manner that is protective of groundwater.

Goal 18: Beneficially utilize nutrients at CAFOs and prevent leaching of nutrients to groundwater.

Goal 19: Keep current with CAFO BMPs and provide CAFO education outreach.

Livestock Operations

Goal 20: Reduce groundwater nitrate concentrations caused by livestock.

Goal 21: Organize outreach and education efforts to increase community awareness of groundwater vulnerability and best management practices for livestock operations.

Goal 22: Identify best management practices (BMP) effectiveness and best management practice adoption of updated BMP's

25

#25
 • Prioritize creating a structure of successes with the following elements:

- 1) Building trust in a stakeholder group which includes state & local
- 2) Staff facilitator
- 3) Agreed to plan with an enforceable order
- 4) one state agency responsible
- 5) Money allocated

Main goal: Monitor a forest project

1

Q1

Goal 23 =
 Fund Sub committee

1^{1st} rank

3

• GOAL #1/9
~~GOAL #1/9~~

Goal 12
 Good info...
 shared...

8 - Across GWMA
 - All uses

IDENTIFY SOURCES IN SUB-AREAS, IMPLEMENT BMPs, MEASURE PROGRESS

Pen

Goal 8+9 (integrated)

9 - Across GWMA
 - All uses

USE HYDROLOGY TO DEFINE SUB-AREAS

24
 REMEDIATION
 PILOT PROJECTS

Goal (3+10+13+14+22)

3rd

9

Goal - (1+8+9)
 Hydrological study

2 Rank

#1 - DATA GAPS
 9-8-1 Catalog

#2 ORGANIZE - Sub Commit.

Summary & Prioritization **Ranked 2** :

Groundwater Management & Research: Goal 8 Significance

Key Points:

- Evaluate nitrogen mass-balance model feasibility
- Biogeochemical research for spatial identification of nitrogen
- Underpinning many other action items



Summary & Prioritization **Ranked 3** :

USGS Study & Characterization: Goal 1 Significance

Key Points:

- Importance of USGS comprehensive study
- Characterization of groundwater and hydrology transport
- Essential foundation for action planning



Summary & Prioritization **Ranked 4** :

Agronomic Best Management Practices: Goal 3 Significance

Key Points:

- Research and cataloging BMPs
- Evaluate effectiveness in nitrate contamination reduction
- Practical steps for immediate implementation

Summary & Prioritization:

Emerging Goals /Other mentions:

Key Points:

- Goal 23: Fund subcommittee structures
- Goal 24: Remediation & pilot projects
- Goal 25: Trust-building, structured approach & funds allocation
- Goals 10, 13, 14, 22: These were mentioned together once, indicating they might be of secondary importance or be seen as complementary to the main goals.

Question 2

If the LUBGWMA Committee were allocated a budget of \$1 million, which of the following ideas should be prioritized to most effectively address the nitrate contamination in the LUBGWMA?

- Idea 1: USGS Study Funding:** Investing in a comprehensive groundwater and hydrology transport model for the Lower Umatilla Basin.
- Idea 2: BMP Certification Program:** Development and marketing of a voluntary BMP certification program to document the extent of BMP implementation in the basin.
- Idea 3: BMP Effectiveness Research:** Conducting extensive research on the current agronomic BMPs' effectiveness in reducing nitrate groundwater contamination.
- Idea 4: Online BMP Resource Creation:** Establishing a robust online platform offering BMP recommendations and strategies tailored for the Lower Umatilla Basin.
- Idea 5: Grower Monitoring Methods:** Setting up advanced monitoring systems to aid growers' inefficient water and fertility management.
- Idea 6: Septic Systems Mitigation:** Initiating projects aimed at reducing nitrate concentrations emanating from septic systems.
- Idea 7: Well Contamination Prevention:** Organizing widespread nitrate testing for domestic wells and running educational campaigns on point-of-use treatment options.
- Idea 8: Waste Management at CAFOs:** Implementing enhanced measures for the collection, treatment, and storage of manure and wastewater at CAFOs.
- Idea 9: Groundwater Remediation:** Investing in advanced groundwater remediation techniques like "pump and treat" or "managed aquifer recharge."
- Idea 10: Industry Wastewater Management:** Adopting advanced treatments and best practices for land application of food processing wastewater to minimize nitrate leaching.

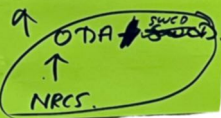
Hire +13
Someone to
run this
* and apply for
Grants

6 Implementable
50 houses

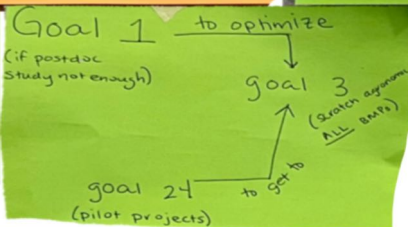
QZ

+12
Seed \$ for
feasibility studies
and Communications
(to get big FUNDS)

Idea [2 + 3]



3



6

GOAL 1.5

- MODEL
- PRIVATE CONTRACTOR
- DIE TO COST
- Efficient rev. ow/
turnaround in < 2y

Idea 9 (collaboration)

↑
Idea 1 indirectly
address this.

9 Common
sense

9

1

3

Broader than Ag.
with 5

3

- 10 INVENTORY Sources
- Septic
 - Livestock/Hobby
 - Ag

1

1 Define
Hydrology

4/3 BMP
Measurables
Education

Summary & Prioritization **Ranked 1** :

USGS Study Funding Idea 1

Key Points:

- Comprehensive hydrology study
- Foundational for other initiatives
- Prioritize a comprehensive hydrology study, possibly with experts like OSU or other trusted entity

Summary & Prioritization **Ranked 3** :

Idea 9: Groundwater Remediation

Key Points:

- Invest in advanced techniques like "pump and treat" or "managed aquifer recharge"
- Seen as a "common sense" approach with links to Idea



Summary & Prioritization **Ranked 4** :

Idea 6: Septic Systems Mitigation

Key Points:

- Reducing nitrate concentrations from septic systems.
- Cited multiple times, indicating participants see it as a tangible, implementable measure.



Question 3

What essential foundational resources should the LUBGWMA Committee prioritize to ensure its success, and where can these resources be effectively obtained?

- Resource 1: Dedicated Funding:** A budget to fund projects, research, and community engagement efforts.
- Resource 2: Trained Personnel:** Access to experts or professionals who can provide technical guidance, manage projects, and drive initiatives.
- Resource 3: Strategic Partnerships:** Collaborations with state agencies, local bodies, and other stakeholders for knowledge sharing and support.
- Resource 4: Technology & Equipment:** Essential for monitoring, data analysis, and wastewater management.
- Resource 5: Access to Quality Data:** Reliable and comprehensive data sources for informed decision-making and accurate monitoring.
- Resource 6: Access to Research & Studies:** Essential for staying updated with best practices and innovative solutions.
- Resource 7: Volunteer Training Programs:** To maximize the efficiency and effectiveness of volunteer contributions.
- Resource 8: Educational Materials:** Creation or procurement of educational resources to train community members and stakeholders.
- Resource 9: Communication Platforms:** Tools or software to streamline communication among committee members, stakeholders, and the community at large.
- Resource 10: Public Awareness Campaigns:** Raising community awareness about the significance of the issue and mobilizing support.
- Resource 11: Meeting & Workshop Facilities:** For organizing training, workshops, and discussions.

Q3

1
Committee
Sustains

8 & 10
Public Support
will lead to
5 & 6

1

#

1

5

1/2/3

3
↓
1

Summary & Prioritization **Ranked 1** :

Resource 1: Dedicated Funding:

Key Points:

- A budget to fund projects, research, and community engagement efforts.
- Frequently cited directly, indicating its paramount importance.
- A sufficient budget is fundamental for almost all other activities.



Summary & Prioritization **Ranked 2** :

Resource 3: Strategic Partnerships:

Key Points:

- Collaborations with state agencies, local bodies, and other stakeholders.
- Several mentions, and participants emphasized its role in accessing other resources.



Summary & Prioritization **Ranked 4** :

Resource 5: Access to Quality Data

Key Points:

- Reliable and comprehensive data sources.
- Specifically mentioned, emphasizing its crucial role in informed decision-making and strategy evaluation.



Top 3 Actions for LUBGWMA Committee



1. Secure Dedicated Funding and Resources

- **Essential foundation:** Without funding, most other initiatives cannot proceed.
- Workshop participants frequently highlighted the importance of secure funding.
- Trained personnel will ensure that funds are used efficiently and effectively. Prioritize dedicated funding for critical projects and initiatives.
- Leverage partnerships and collaborations for knowledge sharing and support.

2. Comprehensive Hydrological Study

- **Informed decisions:** With funding in place, the next crucial step is understanding the hydrology of the Lower Umatilla Basin.
- Consistent emphasis by participants signifies its importance.
- Conduct a detailed hydrology transport model for the Lower Umatilla Basin.
- Understand and characterize the groundwater situation.
- Consider collaborating with trusted experts, such as OSU, if not the USGS.

3. BMP Development & Community Outreach

- **Engagement & Education:** Workshop feedback consistently showed the need for both community outreach and understanding BMPs.
- Researching the effectiveness of BMPs ensures the community gets the right advice.
- Outreach ensures the community is informed and involved, helping to achieve the committee's goals more effectively.



Introduction to Potential Subcommittee

Salini Sasidharan and Dan Dorran

Proposal for Distinct Subcommittees within the LUBGWMA Committee

Objective:

Enhance functionality and productivity.

Key Benefits:

1. Transparency:

- Every decision and action will be clearly documented and open for review.

2. Accountability:

- Distinct roles within subcommittees ensure responsibility for specific tasks and decisions.

3. Feedback Loop:

- Continuous communication between the subcommittees and the principal LUBGWMA Committee.
- Allows for real-time updates, advice, and course corrections as needed.

4. Efficiency:

- Specific subcommittees can focus on specialized tasks, leading to faster and more effective outcomes.

Leadership

Subcommittee leadership roles like "**Subcommittee Coordinator**" to be assumed by:

Primary Member (PM) or

Alternate Member (AM)
from the LUBGWMA
Committee.



Rationale: Ensures coordinators understand the nuances and overarching goals of LUBGWMA.

Task Forces

Single Subcommittee can manage multiple Task Forces.

Each Task Force is led by a **Task Force Facilitator**.

Purpose: Maintains focus on specific objectives, promoting efficient work processes.

Streamlined Communication

Maximum of two individuals for
Coordinator and Facilitator roles:

- A primary and
- An alternate.

Objective: In case one is absent, the other takes over to keep communication channels unbroken.

Avoiding Overlaps

Dedicated subcommittees prevent duplicative efforts.

Example: Prevents multiple subcommittees from applying for the same grants.

Resource Management

Specialized subcommittee structure leads to

Optimal use of members' time and effort.

Allocation based on expertise and interests.

Inclusivity

No restrictions on Subcommittee participation.

Public participation is welcome and encouraged.

Compliance: All Subcommittee activities align with LUBGWMA Committee's Bylaws and public law rules when relevant.

Duties and Responsibilities - *Subcommittee Coordinator/s*

- **Leadership:** Provide **leadership** and set the **vision** for the specific Subcommittee, ensuring it aligns with the overarching LUBGWMA goals.
- **Coordination:** Collaborate closely with the central LUBGWMA Committee, ensuring that **feedback** is consistently communicated and that **strategies** and **activities** are synchronized.
- **Management:** Oversee the **Task Force Facilitators**, providing direction and resolving **conflicts** or challenges that arise within the subcommittees.
- **Representation:** Act as the main **representative** of their specific Subcommittee in inter-committee meetings or external engagements.
- **Strategy Development:** Drive the creation and **execution of strategic plans** tailored for the specific Subcommittee.
- **Reporting:** Periodically **report** the progress, challenges, and achievements of the Subcommittee to the central LUBGWMA Committee.

Duties and Responsibilities - *Task Force Facilitator*

- **Facilitation:** **Lead** and **facilitate** Task Force meetings, ensuring productive discussions and clear action items.
- **Liaison:** Act as the primary **link** between the Task Force and the Subcommittee Coordinator, ensuring that the Task Force's activities align with the Subcommittee's broader objectives.
- **Task Management:** **Assign, monitor, and follow up** on tasks or projects within the Task Force, ensuring timelines are met.
- **Resource Allocation:** **Assess** and **request** any resources required for the Task Force's activities, liaising with the Subcommittee Coordinator as necessary.
- **Feedback Gathering:** **Collect** and **consolidate feedback** from Task Force members, ensuring it's considered in decision-making processes.
- **Reporting:** Regularly **update** the Subcommittee Coordinator on the progress, challenges, and outcomes of the Task Force's activities.

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 Group

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 Group

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:

Task Force

a. Inventory Task Force

Aim: To catalog existing data assets, making them easily accessible for Committee use.

Task Force Facilitator/s:

b. Data Gap Identification Task Force

Aim: To identify areas where data is lacking and strategize on filling these gaps.

Task Force Facilitator/s:

c. 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)

d. Postdoc Task Force

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

Task Force Facilitator/s: Dan Dorran (PM)

3. Communication Subcommittee

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

Subcommittee Coordinator/s:

Task Force

a. Direct Outreach Group

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

Task Force Facilitator/s:

b. Formal Communications Group

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

Task Force Facilitator/s:

4. Regulatory Subcommittee

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

Subcommittee Coordinator/s:

Task Force

a. Agency Relationship Group

Aim: To cultivate and maintain productive relationships with key federal and state agencies as well as city and county governments.

Task Force Facilitator/s:

b. Regulatory Partners Group

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: Salini Sasidharan (PM)

Proposed to come up with a new name

5. Monitoring Strategy Group

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

Subcommittee Coordinator/s:

Task Force

a. Innovation and Technology in BMP Subcommittee

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:

6. Postdoc Engagement Subcommittee

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

Subcommittee Coordinator/s:

Task Force

a. Review Group

Aim: To periodically review postdoc contributions, ensuring they align with LUBGWMA's objectives.

Task Force Facilitator/s:

b. Data Assistance Group

Aim: To utilize postdocs in gathering, analyzing, and interpreting data for the Committee.

Task Force Facilitator/s: Salini Sasidharan (PM)

Merged with Technical Committee

7. Data Management Subcommittee

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

Subcommittee Coordinator/s:

Task Force

a. Inventory Group

Aim: To catalog existing data assets, making them easily accessible for Committee use.

Task Force Facilitator/s:

b. Data Gap Identification Group

Aim: To identify areas where data is lacking and strategize on filling these gaps.

Task Force Facilitator/s:

c. Hydrogeology of the Basin Group

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)

Merged with Technical Committee

8. Project and Consultation Subcommittee

Objective: To oversee the conception, management, and execution of pilot projects, while also managing external consultations.

Subcommittee Coordinator/s:

Task Force

a. Consultant Identification Group

Aim: To find and engage with external consultants relevant to LUBGWMA's initiatives

Task Force Facilitator/s:

b. Pilot Project Roadmap Group

Aim: To chart out the blueprint for pilot projects, overseeing their inception to completion

Task Force Facilitator/s: Salini Sasidharan (PM)



Next Meeting

- A New Proposal
- Monthly Meeting
- Alternate Hybrid and Virtual Only
- Thursday instead of Friday
- October 12th 2023 (Virtual Only)
- November 9th 2023 (Hybrid)