

GWMA Work Plan Content and Milestones

What is Complete and Incomplete?

1.0 Data Collection, Characterization, Monitoring	
1.1 Compile and Manage Data	7 Tasks 5 Completed
a. Research and compile existing data	Lower Yakima Valley Groundwater Quality – Ecology Vital Elements of a Groundwater Protection Body Request for Identification LYV GWMA WAC 173 – 100 EPA LYV Nitrate Study Fact Sheet in English EPA LYV Nitrate Study Fact Sheet in Spanish Columbia Basin GWMA UC Davis Groundwater Nitrate Project Sonoma Valley GWMA Lower Umatilla Basin GWMA Northern Malheur County GWMA Southern Willamette Valley GWMA Vanderslice Study There is more data but it has not been added to the GWMA library. For example a literature review for lagoons and ponds and a literature review of adverse health effects due to nitrates in water were submitted by a member of the GWAC but not incorporated into the project.
b. Analyze existing data	Not done
c. Create a shared data management system	May have been started.
d. Create a GIS Application	Presented to the GWAC in Fall 2017 Inaccurate data as of July 2018
e. Identify data needs (GAPS) working with other GWAC Work Groups	
f. Report to GWAC for input/feedback	Done every two months
g. Incorporate GWAC comments and finalize report	In progress December 2017
1.2 Update Existing Hydrogeological Characterization Report (February 2010)	13 Tasks None Completed
a. Delineation of Groundwater Area (A delineation of the groundwater area, subarea or depth zone boundaries and the rationale for these boundaries)	In progress December 2017
b. Jurisdictional Boundaries (A map showing the jurisdictional boundaries of all state, local, tribal, and federal governments within the groundwater management area)	In progress December 2017
c. Land and Water Use Authorities and Responsibilities (Land and water use management authorities, policies, goals and responsibilities of state, local, tribal, and federal government that may affect the area's groundwater quality and quantity)	In progress December 2017
d. Description of the Area (A general description of the locale, including a brief description of the topography, geology,	In progress December 2017

climate, population, land use, water use and water resources)	
e. Hydrogeology (A description of the area's hydrogeology, including the delineation of aquifers, aquitards, hydrogeologic cross-sections, porosity and horizontal and vertical permeability estimates, direction and quantity of groundwater flow, water-table contour and potentiometric maps by aquifer, locations of wells, perennial streams and springs, the locations of aquifer recharge and discharge areas, and the distribution and quantity of natural and man-induced aquifer recharge and discharge)	In progress December 2017
f. Historic and existing groundwater quality	See PgG <i>Potential Groundwater Monitoring Stations Yakima Groundwater Management Area</i> , December 2013
g. Historic and Current Groundwater Use and Purpose (Estimates of the historical and current rate of groundwater use and purposes of such use within the area)	Unknown whether this is in progress
h. References and Documentation (References including sources of data, methods and accuracy of measurements, quality control used in data collection and measurement programs, and documentation for and construction details of any computer models used)	Incomplete
i. Develop an estimate of the existing and future aquifer uses (Projections of groundwater supply needs and rates of withdrawal based upon alternative population and land use projections)	Has not been done by the Data Work group
j. Develop a summary of water quality standards set by DOE (Ecology) and EPA	Has been done for nitrate
k. Develop a report of annual variations in hydrogeological factors (variations in aquifer recharge and other significant hydrogeological factors)	Unknown whether this is in progress. Not being done by the Data Work Group
l. Submit plan to GWAC for comments	
m. Incorporate GWAC comments and submit to GWAC	
1.3 Develop Implementation Work Plan – Develop a detailed work plan for implementing each aspect of the groundwater data collection and analysis programs	12 Tasks, 8 Completed
a. Identify monitoring locations	Completed in 2016
b. Select monitoring parameters and laboratory analytical methods	Completed in 2014
c. Determine sampling frequency and number	Incomplete
d. Document field procedures	
e. Identify QA.QC procedures	Completed in 2014
f. Develop statistical monitoring procedure	Not done
g. Develop and submit funding request for	Not done

additional research to GWAC	
h. Apply for research funding before the application deadline (normally October)	Not done
i. Develop the final quarterly status report for GWAC	
j. Present the final quarterly status report to GWAC for discussion and feedback	
k. Incorporate GWAC comments. Re-evaluate recommendations	
l. Finalize list of recommendations and submit final quarterly status report to Ecology	
1.4 Implementation – Begin Collection of water quality data	5 Tasks, 4 Completed
a. Identify the parties responsible for initiating the strategy	
b. Develop a schedule for implementing the strategy	Done for domestic well wells in 2017 Not done for purpose built wells
c. Develop a cost estimate for implementing the strategy	Done
d. Secure access to sampling locations	Done
e. Collect samples	In progress for domestic wells Purpose wells have not yet been drilled
1.5 Monitoring – Develop a long-term monitoring system for evaluating the effectiveness of each strategy	Not done
1.6 Review – Develop a process for the periodic review and revision of the groundwater management program	Not done
1.7 Develop the GWMA Program Report (combine with other work groups)	Not done
1.8 Submit Final Report (combine with other work groups)	Not done
2.1 Livestock & CAFO – Yards, corrals, lagoons, manure field application	
2.1.1 Problem definition – Define the extent of the groundwater problems caused or potentially caused by each activity supported by as much documentation as possible including:	9 Tasks, 4 Completed
a. Identify and categorize specific sources	Dairy barns, pens & corrals, composting operations, lagoons & ponds. Identified but not addressed – beef feedlots and animals on open pasture
b. Define and quantify source contribution to groundwater problem	Done by WSDA. NAA has not been approved by the GWAC
c. Examine groundwater quality trends by cause	Not done
d. Evaluate and predict likelihood of future problems and conflicts if no action is taken	Not done
e. identify areas where insufficient data exists to define the nature and extent of existing or potential groundwater nitrate contamination sources	Pens & corrals, compost areas, lagoons and ponds, volatilization, manure export
f. Develop a plan to obtain the data necessary	Not done (Telling the next group that this needs to be done)

to define the nature and extent of existing or potential groundwater nitrate contamination sources	is not a plan)
g. Identify areas where the sources of other forms of groundwater contamination, primarily bacteria, overlap with or are related to nitrate sources	Not done
h. Submit to GWAC for comments and feedback	
i. Incorporate GWAC comments and finalize draft	
2.1.2 Water Quality Goals – To reduce the level of nitrates in groundwater to safe drinking water standards. this work group will contribute to the overall GWMA goal by greatly reducing or eliminating nitrate contamination that may be occurring as a result of current practices. This should result in a downward trend over time, especially at shallow depths, even though nitrate contamination persists from past practices.	4 Tasks, None Completed
a. Develop quantifiable water quality goals for each activity	Not done
b. Develop a schedule for achieving groundwater quality goals for each activity	Not done
c. Provide WQ Goals to GWAC for discussion, feedback and consensus	Not done
d. Incorporate GWAC comments and finalize WQ goals	Not done
2.1.3 Identify and evaluate existing management strategies and programs (DNM Act, NPDES, CAFO Permit, BMPs, etc.) for each specific source in terms of:	13 Tasks, 6 Completed
a. Feasibility	Stakeholder opinions documented
b. Effectiveness	Stakeholder opinions documented
c. Cost	Stakeholder opinions documented
d. Time	Stakeholder opinions documented
e. Implementation Challenges	Stakeholder opinions documented
f. Current level of Implementation	Not done
g. Monitoring	Not done
h. Enforcement	Regulation and enforcement were rejected by stakeholders from industry
i. Consistency with Water Management Programs and Local Comprehensive Plan	Not done
j. Effectiveness at also preventing related forms of contamination such as bacteria	Not done
k. Recommend changes for each strategy/program including where possible, model ordinances, recommended governmental policy statements, interagency agreements, proposed legislative changes, and proposed amendments to local comprehensive plans, coordinated water system plans, basin management programs,	Not done

and others as appropriate	
L Submit to GWAC for discussion, feedback and consensus	Jim Davenport's CAFO/Livestock Summary?
m. Incorporate GWAC comments and finalize WQ Goals	Not done
2.1.4 Once sources of groundwater nitrate contamination are clearly defined identify and evaluate alternative management strategies/programs for each specific source in terms of:	12 Tasks, None Completed
a. Feasibility	Not done
b. Effectiveness	Not done
c. Cost	Not done
d. Time	Not done
e. Implementing Challenges	Not done
f. Monitoring	Not done
g. Enforcement	Not done
h. Consistency with Water Management Programs and Local Comprehensive Plans	Not done
i. Effectiveness at also preventing related forms of contamination such as bacteria	Not done
j. A description of each strategy/program including, where possible, model ordinances, recommended governmental policy statements, interagency agreements, proposed legislative changes, and proposed amendments to local comprehensive plans, coordinated water system plans, basin management programs, and others as appropriate	Not done
k. Provide and discuss strategies and rationale of recommendations to GWAC	Not done
l Incorporate GWAC comments and submit to GWAC (combine with other work groups)	Not done
2.1.5 Recommendations – Choose recommended management strategies from existing and alternative management strategies for implementation	The Livestock/CAFO work group voted to recommend NRCS guidelines rather than Best Management Practices 8 Tasks, 1 Completed
a. Provide the rationale for choosing recommended management strategies for implementation	Not done
b. Provide the rationale for not choosing those management strategies not chosen for implementation	Not done
c. Develop and submit funding request for additional research to GWAC	Not done
d. Apply for research funding before the application deadline (normally October)	Not done
e. Develop the final quarterly status report for GWAC	
f. Present the final quarterly status report to GWAC for discussion and feedback	Jim Davenport's final CAFO/Livestock summary?
g. Incorporate GWAC comments. Re-evaluate recommendations	Not done

h. Finalize list of recommendations and submit the final quarterly status report to Ecology	
2.1.6 Implementation – Develop a detailed work plan for implementing each aspect of the groundwater management strategies/programs based on the Recommendations section.	6 Tasks, None Completed
a. Identify the parties responsible for initiating the strategy	Not done
b. Develop a schedule for implementing the strategy	Not done
c. Develop a cost estimate for implementing each strategy	Not done.
d. Identify priority rankings	Not done
e. Complete Implementation Plan and submit to GWAC and public for input/feedback	
f. Incorporate GWAC and finalize Implementation Plan	
2.1.7 Monitoring – Develop a long term monitoring system for evaluating the effectiveness of each strategy	Not done
2.1.8 Review – Develop a process for the periodic review and revision of the groundwater management program	Not done
2.1.9 Develop the GWMA Program Report (combine with other work groups)	Not done
2.1.10 Prepare Final Report (combine with other work groups)	Not done
2.2 Irrigated Agriculture	
2.2.1 Problem Definition – Identify and categorize specific practices irrigated agriculture can implement to reduce nitrate loading to groundwater.	6 Tasks, 3 Completed
a. Define and quantify source contributions (all sources) to groundwater problem (Note: This would entail developing a study area scale nitrogen budget estimate for all nitrogen sources)	NLA (NAA) has been developed but not approved
b. Identify and obtain existing water quality data sources.	
c. Identify areas where sufficient data exists to define the nature and extent of existing or potential groundwater problems.	Not done
d. Examine groundwater quality trends	See PgG <i>Potential Groundwater Monitoring Stations Yakima Groundwater Management Area</i> , December 2013
e. Submit to GWAC for comments	Jim Davenport's summary for Irrigated AG?
f. Incorporate GWAC comments and finalize report	Not done
2.2.2 Water Quality Goals – Establish groundwater quality goals for each activity	4 Tasks, None Completed
a. Develop quantifiable groundwater quality goals for each activity	Not done

b. Develop a schedule for achieving the groundwater quality goals for each activity	Not done
c. Submit to GWAC for comments	Not done
d. Incorporate GWAC comments and finalize report	Not done
2.2.3 Identify and evaluate existing management strategies and programs (BMP's, etc.) for each specific source in terms of:	12 Tasks, 9 Completed
a. Feasibility	Stakeholder opinions documented
b. Effectiveness	Stakeholder opinions documented
c. Cost	Stakeholder opinions documented
d. Time	Stakeholder opinions documented
e. Implement Challenges	Stakeholder opinions documented
f. Current level of Implementation	Stakeholder opinions documented
g. Monitoring	Not done
h. Education (Change Enforcement?)	Stakeholder opinions documented
i. Consistency with Water Management Programs and Local Comprehensive Plans	Not done
j. Recommend changes for each strategy/program	Stakeholder opinions documented
k. Submit to GWAC for comments	Jim Davenport's Irrigated AG summary?
l. Incorporate GWAC comments and finalize report	Not done
2.2.4 Identify and evaluate alternative management strategies/programs for each specific source in terms of:	12 Tasks, 9 Completed
a. Feasibility	Stakeholder opinions documented
b. Effectiveness	Stakeholder opinions documented
c. Cost	Stakeholder opinions documented
d. Time	Stakeholder opinions documented
e. Implementation Challenges	Stakeholder opinions documented
f. Current level of Implementation	Stakeholder opinions documented
g. Monitoring	Not done
h. Educate (Change Enforcement?)	Stakeholder opinions documented
i. Consistency with Water Management Program and Local Comprehensive Plan	Stakeholder opinions documented
j. Recommended changes for each strategy/program	Stakeholder opinions documented
k. Submit to GWAC for comments	Not done
l. Incorporate GWAC comments and finalize report	Not done
2.2.5 Recommendations – Choose recommended management strategies from existing and alternative management strategies for implementation	8 Tasks, 4 Completed
a. Provide the rationale for choosing recommended management strategies for implementation	
b. Provide the rationale for not choosing those management strategies not chosen for implementation	
c. Develop and submit funding request for	Not done

additional research to GWAC	
d. Apply for research funding before the application deadline (normally October)	Not done
e. Develop the final quarterly status report for GWAC	Jim Davenport's Irrigated AG summary?
f. Present the final quarterly status report to GWAC	
g. Incorporate GWAC comments. Re-evaluate recommendations	Not done
h. Finalize list of recommendations and submit final quarterly status report to Ecology	Not done
2.2.6 Implementation – Develop a detailed work plan for implementing each aspect of the groundwater management strategies/programs based on the Recommendations section	6 Tasks, None Completed
a. Identify the parties responsible for initiating the strategy	In Progress
b. Develop a schedule for implementing the strategy	Not done
c. Develop a cost estimate for implementing each strategy	Not done
d. Identify priority rankings	In Progress
e. Complete Implementation plan and submit to GWAC and public for input/feedback	In Progress
f. Incorporate GWAC comments and finalize Implementation Plan	In Progress
2.2.7 Monitoring – Develop a long-term monitoring system for evaluating the effectiveness of each strategy	Not done
2.2.8 Review – Develop a process for the periodic review and revision of the groundwater management program	Not done
2.2.9 Develop the GWMA Program Report (combine with other workgroups)	Not done
2.2.10 Prepare Final Report (combine with other workgroups)	Not done
2.3 Pollutants from Residential, Commercial, Industrial, Municipal & Domestic	
2.3.1 Problem Definition – Define the extent of the groundwater problems caused or potentially caused by residential, commercial, industrial, municipal and domestic developments supported by as much documentation as possible, including:	7 Tasks, 4 Mostly Completed
a. Identify and categorize specific and potential sources of pollutants. Define residential, commercial, industrial, municipal and domestic pollutant sources.	See RCIM component of NLA (NAA). Incomplete – Missing data for bio-solids, waste water treatment operations and underground injection wells (UIC). Not yet approved by the GWAC
b. Determine and quantify source contribution to groundwater problem	See RCIM component of NLA (NAA). Incomplete – Missing data for bio-solids, waste water treatment operations and

(including surface water sources). examples include TMDL, UIC, industrial discharges, stormwater pollutants, biosolids, lagoons, pipe franchises, waste allocation, septic systems, stormwater and wastewater outfalls, residential fertilizer, etc.	underground injection wells (UIC). Not yet approved by the GWAC
c. Determine and quantify source contribution to groundwater from surface water such as	Not done
d. Evaluate and predict likelihood of future problems and conflicts if no action is taken	Not done
e. Identify areas where insufficient data (Data Gaps) exists to define the nature and extent of existing or potential groundwater problems, e.g. improperly abandoned wells, poor well construction, failing septic system	
f. Prepare report and submit to GWAC for input/comments	Jim Davenport's RCIM summary?
g. Incorporate GWAC comments and finalize report	Not done
2.3.2 Water Quality Goals – List or establish groundwater quality goals for each activity	4 Tasks, None Completed
a. Develop quantifiable groundwater quality goals for each activity	Not done
b. Develop a schedule for achieving the groundwater quality goals for each activity	Not done
c. Prepare a report and submit to GWAC for input/comments	Not done
d. Incorporate GWAC comments and finalize report	Not done
2.3.3 Identify and evaluate existing management strategies and programs for each specific source in terms of:	12 Tasks, 5 Partially Completed
a. Feasibility	Not done, Discussed in GWMA Alternatives meetings
b. Effectiveness	Not done
c. Cost	Not done
d. Time	Not done
e. Implementing Challenges	Not done, Discussed in GWMA Alternatives meetings
f. Current level of implementation	Not done
g. Monitoring	Not done
h. Enforcement	Not done
i. Consistency with Water Management Programs and Local Comprehensive Plans	Not done
j. Recommend changes for each strategy/program	Not done, Discussed in GWMA Alternatives meetings
k. Submit to GWAC for comments/input	Discussed in GWMA Alternatives meetings
l. Incorporate GWAC comments and finalize report	Discussed in GWMA Alternatives meetings
2.3.4 Identify and evaluate alternative management strategies/programs for each specific source in terms of:	12 Tasks, 3 Partially Completed
a. Feasibility	Not done
b. Effectiveness	Not done
c. Cost	Not done

d. Time	Not done
e. Implementation Challenges	Not done
f. Monitoring	Not done
g. Enforcement	Not done
h. Consistency with Water Management Programs and Local Comprehensive Plans	Not done
i. A description of each strategy/program including where possible, model ordinances, recommended governmental policy statements, interagency agreements, proposed legislative changes, and proposed amendments to local comprehensive plans, coordinated water system plans, basin management programs, and others as appropriate.	Discussed in GWMA Alternatives meetings
j. Recommend changes for each strategy/program	Discussed in GWMA Alternatives meetings
k. Submit to GWAC for comments/input	Discussed in GWMA Alternatives meetings
l. Incorporate GWAC comments and finalize report	Not Done
2.3.5 Recommendations – Choose recommended management strategies from existing and alternative management strategies for implementation	8 Tasks, 5 Mostly Completed
a. Provide the rationale for choosing recommended management strategies for implementation	
b. Provide the rationale for not choosing those management strategies not chosen for implementation	
c. Develop and submit funding request for additional research to GWAC	Not done
d. Apply for research funding before the application deadline (normal October)	Not done
e. Develop the final quarterly status report for GWAC	Discussed in GWMA Alternatives meetings
f. Present the final quarterly status report to GWAC for discussion and feedback	Discussed in GWMA Alternatives meetings
g. Incorporate the GWAC comments. Re-evaluate recommendations	Discussed in GWMA Alternatives meetings
h. Finalize list of recommendations and submit the final quarterly status report to Ecology	Not Done
2.3.6 Implementation – Develop a detailed work plan for implementing each aspect of the groundwater management strategies/programs based on the Recommendations section	7 Tasks, 3 Completed
a. Identify the parties responsible for initiating the strategy	
b. Develop a schedule for implementing the strategy	Not done
c. Communicate with responsible parties on strategy	

d. Develop a cost estimate for implementing each strategy	Not done
e. Identify priority rankings	Not done
f. Complete Implementation Plan and submit to GWAC and public for input/feedback	Discussed in GWMA Alternatives meetings
g. Incorporate GWAC and finalize Implementation Plan	Not Done
2.3.7 Monitoring – Develop a long-term monitoring system for evaluating the effectiveness of each strategy	Not done
2.3.8 Review – Develop a process for the periodic review and revision of the groundwater management program	Not done
2.3.9 Develop the GWMA Program Report (combine with other workgroups)	Not done
2.3.10 Prepare Final Report (combine with other workgroups)	Not done
3.0 Regulatory Framework	
3.1 Problem Definition – Define Existing Regulatory Framework Within the GWMA Boundary – Identify existing laws, policies, goals and responsibilities of state, local, tribal, and federal governments for each source or activity that may affect the area’s groundwater quality	Se HDR document – Technical Review 1, August 2013 12 Tasks, 10 Poorly Done
a. Feasibility	Poorly done
b. Effectiveness	Poorly done
c. Cost	Poorly done
d. Time	Poorly done
e. Implementation Challenges	Poorly done
f. Current level of implementation	Poorly done
g. Monitoring	Poorly done
h. Enforcement	Poorly done
i. Gap Determination and Analysis	Poorly done
j. Overlaps	Poorly done
k. Prepare preliminary report and submit to GWAC for input/comment	Not Done
L Incorporate GWAC comments and finalize report	Not Done
3.3 Work Group Support – Respond to Work Group needs and questions related to Regulatory Framework (Need to be able to answer questions brought up by any interest, e.g. who is responsible for nutrient management plan, inspection and enforcement water quality violations)	7 Tasks, 2 Completed
a. Provide information	2016
b. Answer questions	2016
c. Assist in identifying and evaluating alternative regulatory and/or non-regulatory strategies/programs	Not requested
d. Assist in evaluating and choosing for recommendation alternative regulatory	Not done

and/or non-regulatory strategies/programs	
e. Assist in developing a description of each alternative strategy/program including, where possible, model ordinances, recommended governmental policy statements, interagency agreements, proposed legislative changes, and proposed amendments to local comprehensive plans, coordinated water system plans, basin management programs, and others as appropriate	Not done
f. Prepare bilingual EPO materials, e.g. Fact Sheets, Frequently Asked Questions, etc.	Not done
g. Develop and implement Education and Public Outreach Plan	Not done
3.4 Submit the final quarterly report to Ecology	Not done
3.5 Implementation – Develop a detailed work plan for implementing recommended alternative regulatory and/or non-regulatory strategies	4 Tasks, 3 Completed
a. Identify the parties responsible for initiating the strategy	See Regulatory Review
b. Develop a schedule for implementing the strategy	Not done
c. Develop a cost estimate for implementing each strategy	Not done
d. Develop a monitoring system for evaluating the effectiveness of each strategy	Not done
3.6 Monitoring – Develop a long-term monitoring system for evaluating the effectiveness of each strategy	Not done
3.7 Review – Develop a process for the periodic review and revision of the groundwater management program	Not done
3.8 Develop the GWMA Program Report (combine with other workgroups)	Not done
3.9 Submit Final Report (combine with other workgroups)	Not done
4.0 Education and Outreach	
4.1 Develop Goal Statement	4 Tasks, All Poorly Done
a. Communicate on-going GWAC/GWMA activities	Poorly done
b. Communicate health effects of groundwater pollution	Poorly done
c. Invite participation in the GWAC and GWMA activities	Poorly done
d. Promote open process	Poorly done
4.2 Identify target audiences (Completed 2012)	5 Tasks, All Completed
a. Internal	
b. policymakers and Legislative Staff	
c. Tribal	

d. General Public	
e. Underserved population	
f. Special Interests	
4.3 Identify information needs for each target audience considering (Completed 2012)	4 Tasks, All Poorly Done
a. Information needs and the reasons for that need	Poorly done
b. Audience demographics	Poorly done
c. Communication Strengths and Constraints	Poorly done
d. Appropriate information delivery method	Poorly done
4.4 Compile and evaluate previous and existing education and outreach strategies (Completed 2012)	3 Tasks, All Completed
a. Review and evaluate effectiveness of previous education and education and outreach efforts	See Presentation on Yakima County Nitrate Pilot Program
b. Identify areas where previous strategies failed to reach targeted audiences or did not produce desired outcomes	See Presentation on Yakima County Nitrate Pilot Program
c. Identify areas where existing audience appropriate education and outreach materials and delivery are insufficient and delivery gaps	
4.3 Create information delivery strategies tailored to target audiences	2 Tasks, Both Poorly Done
a. Create audience-appropriate education and outreach materials and delivery methods to fill gaps	Poorly done
b. Select audience-appropriate education and outreach materials	Poorly done
4.6 Implementation – Develop a detailed work plan for implementing each aspect of the EPO strategy	7 Tasks, 5 Mostly Complete
a. Identify the parties responsible for initiating the strategy	
b. Develop a schedule for implementing the strategy	Complete
c. Develop a cost estimate for implementing each strategy	
d. Determine how success (effectiveness) will be measured	Complete
e. Develop a monitoring system for evaluating the effectiveness of each strategy	Monitoring plan proposed but not implemented
f. Develop a system for obtaining and incorporating GWAC updates, messages and materials into the strategy	Poorly done
g. Evaluate, update or change strategies based on their effectiveness	Not done
4.7 Develop & Implement a Web-based information system	6 Tasks, 3 Complete
a. Identify communication needs best met using the web	
b. Identify target audiences who have web access	Not done

c. Develop a web strategy that complements and reinforces the Public Outreach and Education Strategy; target audiences with Web access	
d. Develop a time and cost estimate for implementation	Not done
e/ Update the current website to reflect the proposed strategy	
e. Monitor effectiveness of web strategy	Not done
f. Evaluate, update and/or change strategy based on the effectiveness	Not done
4.8 Submit final quarterly status report to Ecology	Not done
4.9 Develop the GWMA Program Report (combine with other workgroups)	Not done
4.10 Submit Final Report (combine with other workgroups)	Not done
5.0 Funding	
5.1 Problem Definition – Determine funding short and long term needs	8 Tasks, None Completed
a. Data Collection, Characterization, Monitoring (DCCM)	Not done
b. Livestock & CAFO – Yards, corrals, lagoons, manure field applications	Not done
c. Irrigated Agriculture	Not done
d. Pollution from Residential, Commercial, Industrial, Municipal and Domestic	Not done
e. Regulatory Framework	Not done
f. Education and Outreach	Not done
g. Prepare and submit funding needs to GWAC	Not done
h. Incorporate GWAC comments and prepare final report	Not done
5.3 Funding Strategy – Determine and develop short-term and long-term Funding Strategy	8 Tasks, None Completed
a. Data Collection, Characterization, Monitoring (DCCM)	In progress
b. Livestock & CAFO – Yards, corrals, lagoons, manure field application	In progress
c. Irrigated Agriculture	In progress
d. Pollution from Residential, Commercial, Industrial, Municipal and Domestic	In progress
e. Regulatory Framework	Not done
f. Education and Outreach	In progress
g. Prepare and submit funding needs to GWAC	Not done
h. Incorporate GWAC comments and prepare final report	Not done
5.3 Implementation – Seek and apply for all funding opportunities local, state, federal including private-public venture	3 Tasks, None Complete
a. Seek and obtain private, local, state, federal and tribal financial assistance	Not done

b. Prepare and submit preliminary funding strategy status report to GWAC	Not done
c. Incorporate GWAC comments, finalize final grant report and submit to ecology	Not done
5.4 Monitoring – Develop a long term monitoring system for evaluating the effectiveness of each strategy and where to spend effort, time and funding	Not done
5.5 Review – Develop a plan and process for the periodic review of funding needs and where to obtain funding	Not done
5.6 Develop GWMA Program Report (combine with other work groups)	Not done
5.7 Submit Final GWMA Program Report (Combine with other work groups)	Not done

1.0 Data Collection, Characterization, Monitoring	36 Tasks, 17 Completed
2.1 Livestock & CAFO – Yards, corrals, lagoons, manure field application	54 Tasks, 11 Completed
2.2 Irrigated Agriculture	50 Tasks, 25 Completed
3.0 Regulatory Framework	26 Tasks, 5 Completed, 10 Poorly Done
4.0 Education and Outreach	32 Tasks, 26 Complete, 10 Poorly Done
5.0 Funding	21 Tasks, None Completed
Total	219 Tasks, 84 Complete, 20 Poorly Done