

Phase V - Outputs and work plan

[Walton phase 5 progress tracking.docx](#) - full text below

Support Grantee and Coalition - Due Date 9/30 (original) - needs to be a talking point with Moira on Monday

- Engage with EFF Illinois to develop a concept paper
 - They want to see our storyboards
 - Moira will tell us on when she wants to convene the grantees - no later than December
 - have a draft to take to that meeting - Ellen and Dick can work on that
 - piggy back on an existing meeting? which one? November or December
 - Illinois Nutrient Reduction is early December
 - Then we can write the paper - short concept paper (no more than 5)
 - Done by end of year
 - NCSA responsibility - editing / contributing as needed - limited involvement
- Engage with other WFF awardees on campus
 - Jonathan C and Reid C - quarterly meeting at NCSA

Develop State Tracking Sites - NCSA Due 1/31/2021

- Work with two new states and continue with Illinois
 - Links to dashboards will be delivered to WFF - links will not be expected to be live to the public
 - State specific subsites - Agree by end of year
 - dashboard
 - water quality data
 - key monitoring sites
 - indicators for tracking changes in water quality
 - Arkansas (def) and Missouri
 - We also have Wisconsin if the others do not engage
- Ellen will call Ryan with Arkansas - by end of this month
- Ted contact Missouri - Chris with Water Protection - John Hoke - are interested
- Dick will talk to Marsha
- NCSA deliverables
 - identify what data they have
 - ideas of what data we want
 - spin off new state site / design
 - what do they want to show on their dashboard
 - models or trends they would like
 - work with Mclssac to develop if they don't have
 - ingest data - USGS WQP will be automatically
 - What kind of parameters they want to show
 - nutrient reduction strategies specific to site - first priority
 - develop story board - with their reports - not officially included in the deliverable
 - dockerize by state - dev site

Develop Viz of conservation practices as a proof of concept for an ag conservation dashboard - due 9/30/20

- with Reid C - driven by this work - this is primary focus
 - need data in database
 - develop viz
 - online submission form
- Kaiyu's work? - does not cover all conservation practices - use only as part / overlay
 - HEATMAP
 - new layer for runoff
 - Not comprehensive
 - use as an addendum to grant?
- Mclssac work
- The three will meet this fall - discuss what can be
- In three individual watershed in Illinois or Iowa
 - if you look at outcomes six states for Ag Conservation practices - Reid needs to have these / tell us - need to make sure this is correct - Dick will touch base
- Dashboard for conservation practices - comparison tool
- Not a decision support tool yet

Develop a tool/algorithm to standardize approaches to calculate nutrient load conditions and trends (as a prelude to sentinel site analysis)

- Due by 11/30/20 (really need earlier to use on sentinel sites)
- nutrient load tend analysis tool - work with Mclssac - this is finalizing it
- discuss with USGS/EPA/HTF workgroup to conform metrics to track and how to calculate - first call week of 11/18/19
- need it because of different data / different sensors - data gap between sensors
 - dealing with incomplete data
 - using Greg's work to fill gap

Develop Sentinel Site Approach

- Develop criteria for sentinel sites
 - internal list to discuss with EPA by 11/13/19; call with EPA to compare to their needs week of 11/18/19
 - finalize criteria by 1/1/20

- work with HTF state workgroup to select sites in each state- states take lead on this
 - Sites need to identified by 5/1/20; final sites selected by 11/2020
 - 1 site per state commitment
- Sentinel Sites Approved and active - 4/30/21
 - HTF website list all sentinel sits and current water quality data from those sites
 - presentation at state meetings to validate to report

Dashboard for sentinel sites by 4/30/2021

- Backend work
- data ingestion
- Need midway report

States approve ag cons dashboard - 6 dates - by 4/30/2021

- IL IA IND ARK
- Reid's work
- need to talk to him to make sure he has 6
- Approval
 - Agree with data? Endorse us?
 - What is criteria for "approve" - change to using? recognize? **approve for public release/go live?**

States approve Water Quality Tracking

- 3 states use the GLTG water quality tracking dashboards - post/go live/ put on web site
- IL ARK and MO

In this section, please reflect briefly on progress against the grant performance measures (outputs and outcomes). Note that outputs and outcomes may not be altered without WFF approval. Please also estimate approximate percent complete for each output/outcome. In reporting progress, please mirror the wording of the output/outcome, providing dates and numbers as applicable. Please ensure you provide (attach or provide a link to) the specified evidence.

Important: If this is a near-final report, please be sure also to indicate further progress expected by the end of the grant period and the basis/evidence for the expectation (e.g., workshop not yet held but date has been set and venue has been booked).

Outputs And Outcomes						
Who will do what and how much?	By when?	Measured or evaluated by?	Percent Complete	Progress Against Performance Measures		FOR WFF USE ONLY
Goal: Increase scope and interpretability of the Great Lakes to Gulf virtual observatory (GLTG to support state and federal nutrient reduction goals.						
Outputs						

Support grantee coalition: LCCC will engage WFF's Illinois grantees and other natural resource conservation stakeholders to develop a concept paper on how GLTG could be applied to help track, guide, and prioritize nutrient loss reduction policies and practices in Illinois.	09/30/2019	A short concept paper on how GLTG could be used to advance the implementation of the nutrient loss reduction strategy will be provided to WFF.				
Develop State Tracking Sites: LCCC will work with 2 new states and continue with Illinois to develop state specific sub-sites (user interface) that include state progress tracking dashboard, water quality data, key monitoring sites, and indicators for tracking changes in water quality.	01/31/2021	Links to state dashboards will be provided to WFF. Links will not be expected to be live to the public.				

Develop visualizations of conservation practices as a proof of concept for an agricultural conservation dashboard: LCCC will work with UIUC scientists to develop a methodology for visualizing the spatial extent and intensity of agricultural conservation practices in three individual watersheds in Illinois or Iowa. These visualizations will then be linked to relevant water quality data from those watersheds.	09 /30 /2020	Visualizations will be available on the GLTG website.				
Develop tool: LCCC will develop a tool /algorithm to standardize approaches to calculate nutrient load conditions and trends.	11 /30 /2020	Nutrient load trend analysis tool developed and tested and documentation shared with WFF.				
Develop dashboard: LCCC will complete the dashboard for network of sentinel sites in the Mississippi River Basin states.	04 /30 /2021	Dashboard and storyboard publicly available on site.				

Outcomes						
States approve agricultural conservation dashboard: Six Mississippi River states will display data collected and analyzed by the University of Illinois on agricultural conservation practice.	04 /30 /2021	Dashboards tested, and approved, by representatives of supported states go live on the web. Links will be provided to WFF.				
States approve water quality tracking: The three states LCCC worked with (Output 2), will use the GLTG water quality tracking dashboards developed for the sub-sites to measure progress implementing the state NLRS and disseminate information to public.	04 /30 /2021	Dashboards tested, and approved, by representatives of supported states and go live on the web.				

States Identify Sentinel Sites: In collaboration with HTF's Trends Work Group, each Mississippi River Basin state will identify at least one sentinel water quality monitoring location and approve it as a measure of progress for the HTF.	11/30/2020	The HTF Trends Work Group will verify the selection of the group of sites through an email to GLTG, which will be shared with WFF.			
Sentinel Sites approved and active: The HTF's web site (or a linked site) will list all sentinel sites and current water quality data (as available) from those sites.	04/30/2021	Sites and current data are approved, by representatives of states, and go live on the web.			