## **Public Scoping Meetings November 2016**

Public scoping meetings were held in November 2016 for the study in three different municipalities. Two meetings were held in Owego Village on November 21, 2016. Two scoping meetings were held in the Town of Chenango on November 22, 2016. One meeting was held in the Village of Sidney on November 30, 2016. For each meeting, attendees signed a sign-in sheet and viewed displays prior to the start of the meeting. Comment cards were available for attendees who wished to submit written comments. Then, USACE and NYSDEC staff introduced PDT attendees and provided a brief overview of the study and introduction to the meeting. Then, USACE staff gave a slide presentation covering study history, process, and status. Following the slide presentation, USACE and NYSDEC staff answered questions from the audience. Study questions from the audience and resultant discussions at each meeting were general in nature. A paraphrased record of questions and discussion from each meeting is presented in tables below.

Meeting minutes were prepared by USACE and reviewed and edited by NYSDEC staff in December 2016. No comments were received by mail, presumably because ample time was available at the meeting for questions and answers.

<u>Owego Village Meeting 1</u>: 11/21/2016 130-3 PM. 22 people in audience. 4 USACE and 3 NYSDEC staff also present.

Questions/Comments from Audience	Responses from USACE/NYSDEC
How much does study cost?	\$3,000,000 cost-shared between USACE and NYSDEC
What are specific locations for projects that would be built?	Need to identify high-risk areas and what can be done within federal, state, and local budgets. Multiple areas possible. BCR will be critical consideration.
Does USACE have any similar past studies with projects that were implemented?	Congressional funding critical. Wyoming Valley and Sunbury PA. Also, Minnesota Watershed out west.
After 1972 floods, several huge dams were quickly built to reduce future flood problems. Slow speed things are moving now will doom the Southern Tier of NY.	Tioga Hammond was expedited under procedures different from current study. Not applicable. USACE has process that it follows which is time-consuming.
Rumors that the East Sidney and Whitney Point Dams would fail were in the papers. There were very high water levels downstream.	Not correct. The reservoir levels are regulated by standard operating procedures for releases. Dams were operated properly.
When is it right to restoration versus flooding mitigation? Floods occur again and problems occur again. Should there be a mission statement for flooding like there is for the Chesapeake Bay Program for nutrients and sediment? Lots of different citizens and hunter wetland groups interested in wetlands restoration to hold water. Also, many would like dams to hold more water upstream and reduce floodwater velocity and volume.	Mission to evaluate flood risk, not looking to provide environmental benefits or meet TMDLs. Structural measures could include storage impoundments. Need to look at volumes of water that could be stored at different places. Not sure enough floodplain area to make much difference via wetlands restoration.
Are we looking into why people continue filling in floodplain and wetlands that hold water? Also, shouldn't be bulldozing creeks because that causes erosion and sends water downstream quickly. Should consider ways to get streams and floodplains to function more naturally. Less places for water to get into the ground as	Watershed very large. Storage a local zoning issue. Many of those changes have to come from local level efforts.
more pavement put in with development. Can more porous pavement be used instead?	
Where is information available on local vs state vs federal costs/benefits for effects of big floods? Flood losses include many problems not captured in estimates. Many people didn't have flood insurance. Businesses shut down for long periods with lost income. Many homes are abandoned. Raising old houses very expensive. Flood	USACE had costs repairing damaged FRM infrastructure.

s don't restrict work in smaller
es, but often benefits in small
es are too limited to support Federal
. Maybe need smaller scale
studies that consider non-structural
studies that consider non structural
ngs will be considered, but induced
k would be analyzed for to prevent
ge alternatives benefits and costs
e to be thought through. Would there
storage areas?
ctural recommended would be getting
nal approval for that as well as if
projects recommended.
model river in PA, but wouldn't be
sider projects there.
cipalities would be desired as
ponsors.
ith FENA floodplain manning Arc
ith FEMA floodplain mapping. Are
all FEMA models. Although not going
ributary do have objective of having
hat captures everything.
tion USACE/NYSDEC receive is part of
rd and will be considered and

	evaluated. Webpage and email provide a means of continuing information exchange.
Is USACE working with Southern Tier Development Committee? Would be important for any big corporations that might want to locate here.	They're not on team, but we should coordinate with them.

Other note: Continuing education training certificates were given out by Tioga Countyto municipal volunteer planning or zoning board members. NYS mandates through Village and Town law that they obtain 4 training credit hours per year.

<u>Owego Village Meeting 2</u>: 11/21/2016 630-8 PM. 5 people in audience. 4 USACE and 3 NYSDEC staff also present.

Questions/Comments from Audience	Responses from USACE/NYSDEC
Does this USACE study compliment/supplement	FEMA updated hazard mitigation plan. USACE
what FEMA did after the 2011 floods?	would use that in planning process for this study.
USACE study concept and FEMA FIRM updating	
were already in consideration before 2011 floods.	
What is NYSDEC role in floodplain management?	In Tioga County, code enforcers are the
	floodplain managers. NYSDEC provides
	community assistance and reviews community
	floodplain permitting under the National Flood
	Insurance Program.
Where is USACE getting flooding information	Various mapping sources.
from?	
In meetings after 2011 floods, FEMA was shying	FEMA generally does not fund projects, such as
away from floodwalls. USACE is open to them?	flood walls, that are within the USACE's
Confusing contradiction between federal	jurisdiction. However, USACE will evaluate all
agencies for citizens.	cost effective options.
Is there an established figure of damages that	USACE identified costs to repair FRM structures.
resulted from 2011 flood? It was a big deal,	FEMA prepared estimates of economic damages.
damages were greater to people than most think.	Preventing future damages estimates are easier
	to figure out than figuring out damage estimates.
Amount of water and speed that it rises are the	State has comprehensive SWM regulations. In
cause of problems. Key solutions are restoring	Tioga County, only municipality of Owego has its
wetlands and using pervious pavement.	own SWM regulations.
Floodwalls make us unable to see our neighbors.	
If more floods occur, Owego won't be here.	
Population has declined from 5,000 to 3,700.	
Activities in Vestal are causing problems for	
Owego. They pave over wetlands there and	
Owego suffers.	
Professor Peter Knuepfer, Professor at	
Binghamton University, has studied flooding	
issues for decades. Spoke at Living Waters	
Summit.	
We don't learn from the past. Levees built after	
1930s overtopped. We forget after 2011, it	
became a big concern about building schools in	
flood prone areas. Had been a concern	
historically, but we forgot and kept building them there anyway.	
In 2011 lots of flooding occurred from small	Ellicott City MD recently had 10 inches of rain in 7
creeks rising rapidly rather than from flooding	Ellicott City MD recently had 10 inches of rain in 7 hours, about a once per 1,000 year event.
from the river.	nours, about a once per 1,000 year event.

Perfect storm occurring of development, climate	
change, and even road ditch crews cleaning	
upstream ditches to let water drain more quickly.	
Most local officials not experts.	
People will be upset if all work proposed is in	If report presents comprehensive view, then
Broome County but not Tioga County.	some projects that Federal government won't do
, , , ,	could be done by towns, or counties.
Can USACE construct wetlands for flood control	Under FRM mission USACE can recommend
	detention basins. NYSDEC regulations don't go
and use pervious pavement on a large scale to	
replace impervious surfaces?	into pervious pavement. Installing pervious
	pavement would be local issue/decision.
These counties want development, aren't going	
to have onerous requirements for developers.	
Parking regulations in area date from 1960s.	
Swales and basins are cheaper than pervious	
pavement.	
Floods created serious concerns for Lourdes	
Hospital in Binghamton and for nursing home	
patients that were in buildings at risk.	
No medical care was available in Owego during	
2011 flood. Health care then an issue, people	
can't get to hospitals and clinics.	
In Owego, courthouse flooded in 2011, that	
might have been the first time ever. Flooding	
came from the river. Firehouse also flooded in	
that event.	
Creek flowing through town meanders and has	Broome Soil and Water has information on
filled with sediment under the railroad tracks.	ongoing sediment management. Wendy Walsh
Creek was dredged out, but sediment bars	good contact.
reformed in 9 months.	
Almost no stormwater runoff pipes here, other	
than in Owego Village and some in town. Most	
people have dry wells, aren't on stormwater	
conveyance system. Most water here just	
infiltrates into ground, but in big rains the village	
ponds and becomes part of the flood. River very	
shallow here.	
In Owego, the two major grocery shops were	
inaccessible during 2011 floods. Volunteers got	
together to get food in. Owego Village was	
isolated for several days by flooding. Nichols was	
also an island, they received food by National	
Guard drop. Some issues have since been	
worked out in the towns to get various	
emergency management staff to interact more	
effectively. They have disabled vulnerable people	

that they'll have to releast a not sure whether	
that they'll have to relocate, not sure whether	
state can take them.	
In 2011 flood, Salvation Army was one of first	
relief organizations in. They fed 100s of people	
using food from state prison. Partner with Red	
Cross and Salvation Army to provide emergency	
relief.	
Distributing food was a problem. Had to work off	
limited high ground.	
What cost figures are going to be used?	Would use structures and contents now to
what cost lightes are going to be used?	
	estimate damages to be prevented.
Owego Heat Treat metal plant had to be bailed	It is currently an environmental remediation site.
out twice. Since then out of business. That's an	
environmental concern.	
Soft damages such as inconveniences to people's	Would focus on direct costs, but would do our
lives, are these considered in damages?	best to consider them. USACE models evaluate
	direct. FEMA has such a model.
Owego Village has historic district that should be	
considered. Lots of floors destroyed that	
character of village now lost, although only about	
two buildings actually lost. Historic districts tend	
to exist next to rivers where people would build.	
What value does historic district have?	

Town of Chenango Meeting 1: 11/22/2016 130-3 PM. 22 people in audience. 4 USACE and 3 NYSDEC staff also present.

Questions/Comments from Audience	Responses from USACE/NYSDEC
What are boundaries of study area?	Upper Susquehanna Basin in NY. We would do H&H modeling for Big Bend area of river in PA, but not consider projects there.
What Federal program pays for this? What if it costs more than \$3,000,000?	General investigations of large civil works. Would have to go back to request additional funds.
It take too long for anything to happen. Federal government response too slow. Almost 10 years have elapsed since 2008 authorization.	
Need to explain to local and county governments so they can be prepared for whatever cost-share municipalities have to kick in. These governments need to be prepared for this versus other unfunded mandates.	In-kind services can be contributions in lieu of providing funds. New possibility could be public/private partnerships to leverage funds.
Other organizations are looking for wetland restoration sites where berms can be removed, particularly in Broome County. Make sure to use that information.	
What type of flood storage projects could be constructed? Could these be at multiple sites? Could be complicated for municipalities to cost share.	Could be at multiple sites. Feasibility study required to include consideration of non-structural alternatives.
"Rising Community Program" has summary of local impacts from recent big floods, as well as community efforts to overcome these.	
Reviewed record of major floods from 1900s onward. Now owners in flood prone areas can no longer sell their houses because of impacts of FIRMs on property values. Defoliation of Mount Prospect is now also big problem causing runoff which goes into populated area on Front Street. Vegetation was waist high in dike joints/seals. 2011 flood was bad next one could be even worse.	State DOT would have design information for the Mount Prospect project. Described USACE levee inspection program and maintenance responsibilities.
Waters Act has now put in exorbitant costs. Big recent floods get close to top of dike.	There are many potential grants available, it's a matter of tapping into the right source. Also should review FEMA and Silver Jackets information.
Need a maintenance program that provides a way for municipalities to do that. Too much paperwork to do maintenance.	Reviewed USACE and state O&M manuals. Cortland DEC would be appropriate agency contact for minor culvert work. NYSDEC doesn't regulate manual clearing of woody debris if that's all that's involved.

What data does USACE need? County collects construction data so could summarize that.	USACE determining that, then will reach out. Do need to figure out greatest factors causing runoff (precipitation, development, etc.), as well as vulnerable populations that get flooded.
A number of large-scale low-income housing areas are levee protected, but flooded last time. North side of Front Street has many low income homes also.	
Conklin/Kirkwood area along Route 7 residents could escape floods better if dips in the roads were taken out that flood. Floodwaters come in from PA.	
BCR formula needs to include human factor because people get flooded and they don't want to.	Explained National Economic Development Plan, including locally preferred plan.
NY Rising regional initiatives need to be coordinated with.	Need to leverage the various efforts underway and keep communication going.
Wetland losses basin-wide from farm practices, some development, some drainage.	
Is USACE using new high resolution land cover data developed for nutrient estimates?	Described H&H modeling and data collection work underway. HEC HMS doesn't incorporate new high resolution land cover data. Weren't going to incorporate land use as mostly interested in runoff causing floods. Model is completed and calibrated for 2011 flood using older land data. Model went through long process to make sure accurate for big storms. Are checking to see whether any additional tributaries need to be added. FEMA has had multiple LAMP meetings in the area.

Town of Chenango Meeting 2: 11/22/2016 630-8 PM. 2 people in audience (including county commissioner). 4 USACE and 3 NYSDEC staff also present.

Questions/Comments from Audience	Responses from USACE/NYSDEC
Wants to know future plan for watershed.	
Hoping for dredging or dams, but knows that	
probably won't happen.	
Does USACE cover sewage backups from floods?	No, local sponsor responsibility.
What does USACE consider in terms of benefits, taxes paid? Value of homes?	USACE doesn't capture lost wages, having to take off work, school closure effects, etc. These are indirect damages.
In Johnson City/Union, levee sunk behind Home	Are going to resurvey levee tops. It's possible
Depot and that may have caused overtopping	that adjacent up/down areas were built to higher
there. Affected BAE's boys club.	elevation in anticipation of settling that didn't
	occur.
Fairmont Park levee in Town of Union was	
supposed to have 2 gates, but only 1 built. Used	
temporary bladder structures that failed (blew	
out).	
How long after study completion would projects	
be built?	
Broome County has put together a report of all	
the FRM efforts and mapping. Will forward that	
to USACE.	
Would sites where buildings have been removed	
be good wetland restoration sites? Vestal's	
nursing center and BAE Systems site in town of	
Union are now open parcels in floodplain. These	
could be converted to open space (parks,	
ballfields, etc.)	
What SWM requirements are applicable.	Anything >1 acre needs a SWM plan. NY has
	gotten much stricter over the last two decades.
	Larger municipalities issue and monitor their own
	permits. For smaller municipalities there's state
	oversight, but overall probably less attention.
Oakdala Mall has floading and blogs. Cauld he	SWM regulations have flexibility built into them.
Oakdale Mall has flooding problem. Could be	NRCS built about 19 detention basins in Broome
because of improper management of runoff.	County. These probably help, but were
	overwhelmed by big storms.

<u>Sidney Village Meeting</u>: 11/30/2016 630-8 PM. 41 people in audience. 4 USACE and 4 NYSDEC staff also present.

Questions/Comments from Audience	Responses from USACE/NYSDEC
Frustrated over more studies and no action.	Reviewed USACE process and likely time
Sidney flooded multiple times, lots of studies	required.
already completed. Library itself flooded in 2005.	
Expedite this study and get something done	
(Multiple people)	
Separate meeting for buy-outs being handled by	
town in December.	
After 2011 flood, town got money from NY state.	USACE identifying data to use. Need to use
Sidney named a NY "rising community."	existing data, including findings of USACE 2006
Mitigation strategies were identified including	FPMS study.
buyouts. Many homes being torn down and left	
vacant as green space. Many of these homes	
were destroyed/damaged in both floods. This	
will provide some increased storage space.	
Data/information on this available and should be	
used by USACE. Binghamton is another "NY	
Rising Community."	
Even with 26 homes proposed for removal, many	USACE can't do implementation under FPMS
are left behind. This shot-gun pattern is	program. Will be looking into storage
destroying neighborhood character. Town has	opportunities in this current study. Study is
green plan but not an engineering plan. Doesn't	under GI program in which USACE can study and
think green plan will solve problem; need flood	build.
control dams. Environmental nonsense stops	
dam building, doesn't solve flood problem.	
USACE did studies in past, and put forward	
project for Amphenol Corporation but NYS didn't	
have funding for the project and it flooded.	
Amphenol since moved uphill. USACE studied	
specific causes of that problem and solutions,	
including dredging. Main Street bridge has two	
bays filled with sediment for years, nothing done	
about it. USACE identified potential for berm on	
NE side of town. When are meaningful projects	
going to get done?	
Do effects for BCR consider businesses not	USACE can't include indirect damages such as
coming in because of flood risk? Are	businesses not coming in, not being able to work
environmental consequences of debris and	during flood event, etc. USACE would look at
pollution from flooding considered? Many	hazardous waste sites, gas stations, etc. as
projects get nixed because of BCR. FEMA BCR is	environmental risks.
antiquated.	

Can community rising funds be used as match?	These come from HUD. Normally USACE can't accept federal dollars as match, will need to
Stopping at NY boundary a problem. How about flooding from Susquehanna River that originates from Pennsylvania? (Great Bend area). When is PA going to come up with a plan? Flooding from PA has been a problem for Sidney before. Need better coordination between PA and NY. Information available at public website only indicates one project to be constructed. What does that mean, one site or the entire basin is one?	check. USACE working with FEMA and Silver Jackets, so we are attempting to have bigger picture consideration. USACE will model effects of any projects proposed both up and downstream to avoid inducing flooding elsewhere. Can't otherwise evaluate entire basin, however. Screening phase will identify that. Scope could change depending on how many areas we identify.
Headwater areas are a trickle compared to downstream. Floods here can have small effect down there. Feeder streams, such as in Cooperstown, are overflowed easily. Is study considering headwater areas?	Screening will consider such areas, but modeling is being done for main rivers.
Many small bridges and roads in headwaters washed out. Some because of undersize culverts. Financial impact of these huge. Unadilla effectively a flood storage there, they wouldn't dredge river because storage there would be lost.	Population centers and critical infrastructure major considerations for study for projects. For many other areas, study can generate recommendations on how to reduce flood risk, such as what could be accomplished using HUD grants. That way, that information is available for use by others. Watershed screening will identify risk and generally whether Federal solution.
Binghamton competing against Sidney for a single project site? Sidney would be disfavored against larger urban areas. Or, could it mean one project per river (like one per Chenango, one per Susquehanna, etc.)? However, storage up here could benefit Binghamton, would such a project to protect someplace else also potentially protect	The study is not seeking to have places compete, but will look at BCR vis USACE procedures. Multiple projects in multiple areas may be recommended. If a project is built to protect Sidney, Binghamton benefits would be additional.
Was Binghamton used in FID determination? Does that mean it gets preference?	It was used for estimating purposes only. This is because it's a bigger system with bigger costs and benefits that helped study go forward. This does not screen out other smaller areas. The actual area(s) that the study recommends for further action may or may not include Binghamton.
Ranking system really important then. Is there going to be public participation in that? 2006 flood took out section of 88, killed a couple of people. One house damaged here. Further downstream, tributaries were the problem though. In 2011, tributaries did lots of damage to	Information will be provided on study website and public can provide feedback.

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roads and bridges. Floods in Binghamton are	
different than here.	
Many places working off old FEMA maps. Just	
got new maps today.	
Up here, lots of siltation problems also cause	
floods. Village of Sidney and Unadilla wouldn't	
have had 100 year flood if river was open and	
could flow better. Also, some bridges back up	
water.	
Companies used to be allowed to clear out river	Dredging often not cost effective, often doesn't
gravels so flow would be better. River beds have	do as much as people think. Initially you get a
since aggraded and towns flood more easily. A	little increase in volume capacity that helps with
little dredging could prevent a lot of the	small flood events. In large events though the
problems up river, although that could cause	amount of water is too great and so goes out into
problems down in Binghamton. Dredging though	the floodplain. Removing bridges often better
would just be putting river bottom back where it	means of improving flow than dredging. Opening
was.	up cells below bridge would help flow.
After 1972 floods, river upstream of Corning	
cleared of sediment and trees. It they just	
cleared near here in areas where river is a bunch	
of gravel bars and no longer exists, it'd solve	
problem. River in vicinity of Unadilla hits lots of	
farmland. Should clear river out and use	
farmland for storage. When river in Oneonta	
near 88 was straightened out it made things	
worse here. We know we can't dump water on	
Binghamton but dredging would help here.	
This area to Route 8 was substantially impacted	Study will share information that might be useful.
by 2006 event. 124 homes will be torn down; 2	Comments we've received do ask about effects of
homes will be elevated. Still have people who	diminishing tax base on BCR.
haven't received money following the 2011	C C
event. All these delays very frustrating. Trying to	
build new homes in village, but a lot of people	
have left the area. Enhancing our water system	
now, not sitting back and waiting. Community is	
of aged people, young people aren't staying here.	
They move to Binghamton and Oneonta.	
Sidney still has a manufacturing base. Amphenol	
has decided to stay. Have an industrial park; part	
is in floodplain though.	
During flooding, interstate and Route 6 shut	
down and had to go up the hills on smaller roads.	
Don't know that anybody got trapped though,	
but many small roads were washed out and	
impassable. After 2006 event, identified flood	
evacuation routes.	

Water go to undercarriage of Main Street bridge which caught debris. USACE report identified advantage of raising bridge. Could also be ice issues.	
Town was cut in half during floods, but grocery	
stores stayed dry.	
Need to remove snags and debris, but need	
permits and that's frustrating for municipalities	
and farmers. Should be simple way to expedite	
that. (Another attendee disagreed and said that	
most such permits are issued in two weeks. It's a	
misconception.)	
Sidney is at confluence of two rivers, that	
meeting is where siltation problem is.	