



# Virginia Clean Water Financing and Assistance Program (CWFAP) Streamlining Efforts

## 2020 CIFA Workshop

Karen Doran
Clean Water Financing and Assistance Program Manager
Virginia Department of Environmental Quality
December 3, 2020



#### **Objectives**

- Background information
- Lean event description
  - Before, during, and after event tasks
- Results
  - Tangible and intangible
- Key takeaways for success and lessons learned

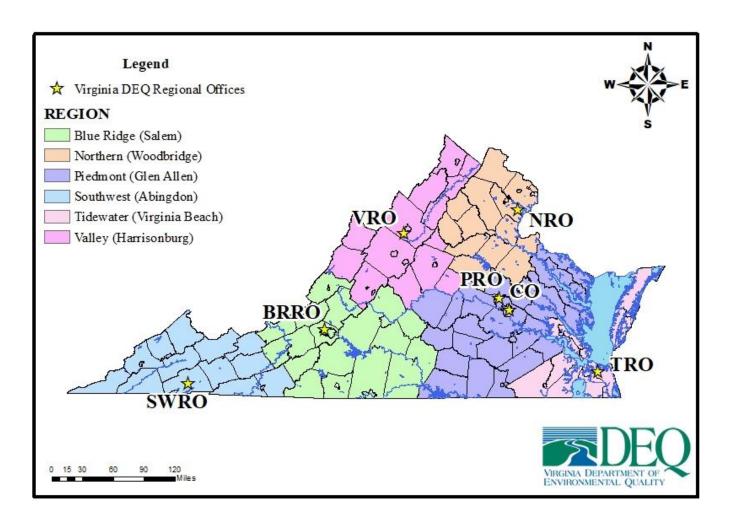


#### **Background – Virginia CWFAP**

- Our team administers three funds
  - Virginia Clean Water Revolving Loan Fund (Federal/State)
    - Virginia Resources Authority (VRA)
  - Stormwater Local Assistance Fund (State)
  - Water Quality Improvement Fund (State)
- Team distribution
  - Central office (Richmond) Program management staff, project officers, fiscal staff and VRA
  - Regional offices (Around the state) Project managers



#### **Background – Virginia DEQ Regional Office Locations**





#### **Background – Virginia CWFAP**

- Team Composition
  - Seasoned and new staff (including new Program Manager)
  - Big picture thinkers and detail-oriented analysts
  - Engineers, wastewater and stormwater specialists, geologists, and more
  - Strengths Problem solvers, deliverers, time keepers, optimists, analysts, strategists, self-believers, empathizers, and more



#### **Background – CWFAP Team Decision**

- Gathered in November 2018
- Team decided to tackle streamlining the program
- Determined best option Process Improvement Mapping
  - To be led by internal training group green belt in Lean Six Sigma
  - To develop a "Current State Map" captures what is actually happening versus what the SOP says
- Held face-to-face one-day event in Richmond March 2019



#### **Before Event**

- Gathered and provided materials already in house
  - Process flow maps
  - SOP and guidelines documents
  - Program operations plan
  - Applications, checklists and forms



#### **Before Event**

- Created a project charter
  - Identified process owner and leadership team sponsor
  - Provided an opportunity statement that put <u>boundaries</u> on items to tackle
  - Prioritized objectives into top 3
  - Identified process starting and stopping points
  - Determined what was in scope versus out of scope
  - Named the <u>team</u>



#### **Before Event – Project Charter**

#### **Project Charter**

Project Name:	Clean Water Financing and Assistance	Current State Mapp	ing Date:	3/12/19 8:30 - 5:00
Division/Unit:	Administration	Process owner:	Karen Doran	
LT Sponsor:	Valerie Thomson			

Opportunity statement (Highest priority opportunities for the event)

eliminate unnecessary steps (ex. redundant paperwork, examine checklists), make processes between programs similar where possible (why accept self-certification for one program but not another?), reduce number of program records, optimize staff time (for example, SLAF has applicant fill out plans and specs checklist, but staff fills it out in RLF), optimize CEDS for efficiency and make it more usable, clarify staff roles (who needs to perform review or sign approval), consistency amongst staff, use technology to make our processes more efficient (ex. post documents on our website for external customers to use, rather than having to provide to them individually)

**Event objectives** (Include 1-3 highest priorities from opportunity statement, metrics targets, and timeframes) Reduce review time for each step, eliminate unnecessary steps, make use of technology



#### **Before Event – Project Charter**

#### High Level Overview of Business Process

Solicitation, application review and project funding list, initial meetings, review of submittals (several), loan closing/grant agreement, disbursements, site visits, close out

4 funds: Revolving Loan Fund, Agriculture, Water Quality Improvement Fund, Stormwater Local Assistance Fund

Start by mapping Revolving Loan Fund

Start of process to be mapped	End of process to be mapped				
Solicitation	Project close out				
Project Scope					
In Scope:	Out of Scope:				
Preparing for ECM, changes to review steps, minor changes to CEDS,	Future phases of CEDS				
changes to staff roles	Federal process				
	VA legislation				
	Virginia Resource Authority processes				



## **Before Event – Project Charter**

Team Selection					
Name	Division				
Karen Doran	CWFA				
Kelly Ward	CWFA				
Mike Crocker	CWFA				
Boyd Wiley	CWFA				
Allen Cornett	CWFA				
Jeanne Puricelli	CWFA				
Ken Savko	CWFA				
Kim Butler	CWFA				
Lars Bolton	CWFA				
Bill Spencer	CWFA				
Charlie Via	CWFA				
Pantea Westermann	CWFA				
James Cornett	CWFA				
Shawn Crumlish	VRA				
Michelle Prior	OFM				



#### **During Event**

- Event led by third party with no prior knowledge of process
  - DEQ training staff green belt Lean Six Sigma
- Mapped VCWRLF process from beginning to end
  - What is beginning to end?
    - For us annual solicitation to final loan disbursement
- Identified
  - Key communication points
  - · Who, what, when, where, how, and why of each step
  - List of action items to achieve 3 event objectives



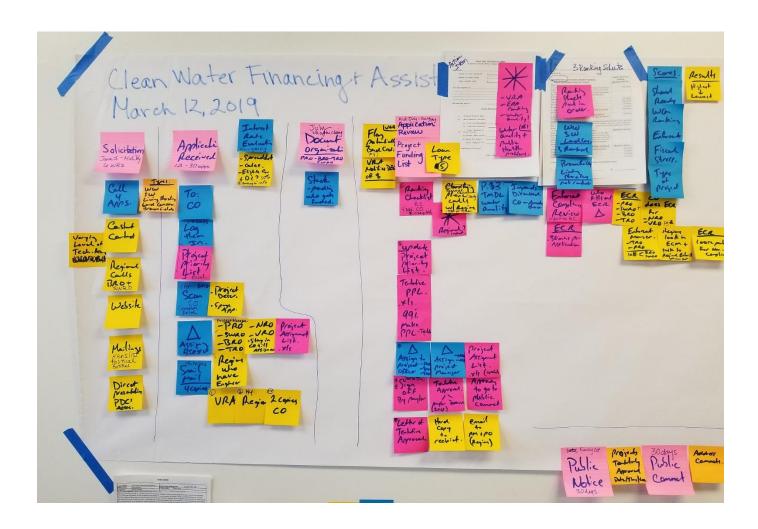


# **During Event**





#### **During Event**





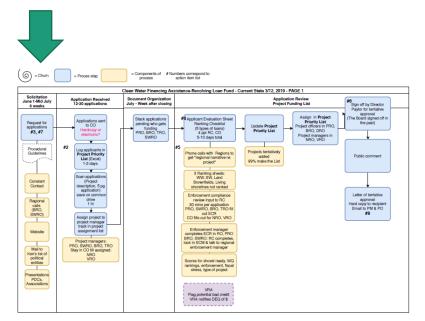
#### After Event – Output and Continuous Follow Up

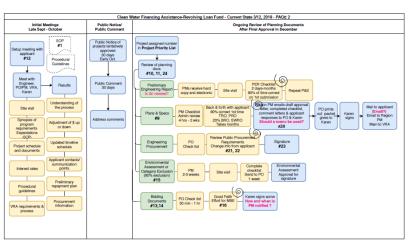
- Output
  - Received two items from the Event Lead
    - Current State Map Graphic
    - List of Action Items
- Continuous follow up
  - Held monthly team meetings
    - Reviewed progress on action items
    - Continuously evaluated action items for clarification and ownership
  - Event Lead performed periodic follow up assessments

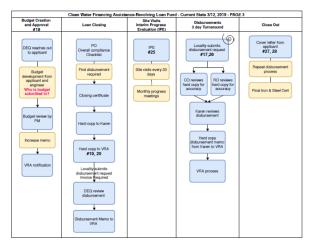


## After Event – Output – Graphic Current State Map

#### **START HERE**









**END HERE** 



## After Event – Output – List of Action Items

Project Name: Clean Water Financing and Assist		ance			JU.C - UC.O E		
Division/Unit: Administration			Process owner:	Karen Doran			
LT Sponsor: Valerie Thomson		<del></del>				T .	
#	# Task			Lead Members		ers	Comments
1 Review and update DEQ SOP						Consider updating Program Design Manual as a first step	
Standardize project tracking, VRA/DEQ communication points		Pantea	1			work with Karen on #11; shared drive structure drafted - team review and organize; VRA/DEQ comm points - ongoing - met with Shawn - creating spreadsheet to track progress of projects through loan closing - will discuss at monthly meeting	
Review Procedural Guidelines for opportunitities to clarify to applicant what's needed with the goal of improving the quality of data in for all project types related to application, see #7		Pantea	n/PMs			work with Bill; Pantea and Bill to complete when reviewing FY20 applications - ongoing	
4	Applicant evaluation sheet - Still effective?  Will the current criteria hold up in the future?		Pantea	Pantea/Karen/Mike			Pantea to complete when scoring FY20 applications - ongoing
5	Formalize regional input for application review process		Bill				work with Kelly on #3; see #3 - complete - PMs review with Kelly
6	Who signs tentative approval list - Paylor, Board? Pros and cons		Karen				Paylor signs - complete

LT Spor	/Unit: Administration usor: Valerie Thomson			Karen Doran	
	Task		Lead	Membe	rs Comments  Consider updating Program Design Manua
1	Review and update DEQ SOP				a first step
2	Standardize project tracking, VRA/DEQ communication points	Pantea			work with Karen on #11; shared drive structure drafted - team review and organize; VRA/C comm points - onegoing - met with Shawn creating spreadsheet to track progress of projects through loan closing - will discuss monthly meeting
3	Review Procedural Guidelines for opportunitities to clarify to applicant what's needed with the goal of improving the quality of data in for all project types - related to application, see 87	Pantea/PMs			work with Bill; Pantea and Bill to complete when reviewing FY20 applications - ongoin
4	Applicant evaluation sheet - Still effective? Will the current criteria hold up in the future? Formalize regional input for application	Pante	s/Karen/Mike		Pantea to complete when scoring FY20 applications - ongoing work with Kelly on #3: see #3 - complete -
5	review process	Bill			work with Kelly on #3; see #3 - complete - review with Kelly
6	Who signs tentative approval list - Paylor, Board? Pros and cons	Karen			Paylor signs - complete
7	Application - Better instructions	Pantea	/PMs		See #3
8	Content of letter - tentative approval to applicant and loan authorization letters	Kim			letters updated - team review in August - tentative letters complete, authorization le complete
9	Define what is required for different projects during P&S phase - Too much? Too little?	Mike/	regional PMs		ongoing - checklist drafted - PMs review b Oct - Bill let Pantea know when ready to n for EPA requirements - then to Pantea for fillable form - Mike to schedule call with P
10	General specs vary from applicant to applicant. Difficult to find information from applicant. Can the submissions be standardized?	Kim			checklist - have applicant fill out the check see #9
11	When should DEQ communicate with VRA during the review of planning documents? Just during Plans & Specs?	Karen	and Shawn		work with Pantea on #2 - ongoing
12	Initial meetings - Who's there? What to bring? Provide a map to closing. Relates to content of Tentative Approval Letter.	Kim			Karen and Bill put initial meeting checklist #12 folder; Kim make revisions and let tea know when ready - Pantea to update QPS send to team for review - on common drive team review
13	Als certification - This takes a lot of time. Any opportunity for improvement?	Allen,	Charlie, Kim		look into Als training from EPA - Jasuary B Kichmond, or other orline training, hando from the Pre con meeting, provide EPA's for questions, make applicants aware the responsible - in initial meeting - EPA perfor Kichmond - look at holding training in Jam KelhylCharfile work on dates - EPA to conta VOH - Xaren check with Marinee on cord in PAPO - call on 10/3 - training are - checking possible recording - hold training areausaly coate PPA load - Xim will coordinate
14	Davis Bacon - This takes a lot of time. Any opportunity for improvement?	Allen,	Charlie, Kim		Look into DB training through DHCD or oil sources - ongoing - DOL training in TRO7 : and Kim to work or - consider webinar - B check with DHCD for training - DHCD does periodic training, Bill to follow up - karen coordinating with EPA on training
15		Karen,	Val		meet with Tina - met with Tina, Karen, Kin Bill to discuss
16	Tap into EIR division?  Construction Contracts - Many applicants do not have correct wage rate. Program officers check on bid review?	Boyd,	Bill, Mike, Pantea		Add to glands spec review (complete) an package review checklist, add a self- certification from owner that cornect wag determination was used - I faily to put bid package review checklist in 915 folder in team throw when ready - person on 10 discussion in intellial meeting - Paritica upd checklist and create filiable via
17	Look for opportunities to use more electronic documents/email. Disbursement request? Where else?	Tech t	eam		ongoing - Tech team provide update at ne action item call
18	Formalize budget process	Mike			schedule 1; add to plans and spec checkli after receive bids - ongoing - Mike and Bi discuss - need budget 3 weeks before clo
19	VRA notify Regional Office of loan closing	Shawn	/Karen		Complete
20	Integrate VRA Closing items needed into DEQ process - combine with #2	Karenj	'Mike		Ongoing - budget, inc/dec memo, final lo amount, closing cert, 1st req approved - v included in VRA/DEQ spreadsheet
21	DEQ process - combine with #2 Engineering procurement - Can RLF work like SLAF with self-certification	Mike,	Kelly		YES complete
22	Explore small localities exemption - why require PPA?	Mike,	Karen		Ongoing
23	Who signs approval letters - from DEQ Process for sending approval submittal to	Mike/	Karen		See #24
24	CO & who is doing the review? Preliminary engineering record, plans & specs, engineering procurement, bidding docs, environmental assessment	Karenj	n.c.		Complete - Determined that review and approval done by Mike and closing certifi approved by Karen
25	IPE - What is appropriate frequency	Chart			Charle of active to the compiled info, revised IPI in folder - team to review - schedule call January - conference call held, revised it and placed on common drive, frequency comprehensive IPE in middle and near e IPE monthly - PMs review revised form a provide comments.
26	Disbursement frequency - Can it be standardized? Or encourage regularity? How? Applicant instructions. Combine with #2		Shawn		Ongoing - discuss leveraged projects - no needed for bond proceeds - draft 1 pager instructions (Mike/Pantea) on how to requisition funds - include regularity
27	Examine 90 day permit requirement for O&M versus CTO 30 days before closing	Bill/			Complete - CTO to be issued on each pr (where applicable) - required by regs, O manual medded before substantial comp
	project.				- items included on checklist



#### Results – Tangible

- Reduced amount of paper program was using
- Updated templates to fillable PDFs
- Updated applications and evaluation sheets
- Posted key documents to the website
  - Reduced questions from borrowers
- Organized common electronic filing system
  - Provided access to documents by all team members
  - Serendipitous provided for seamless transition to full time telework due to COVID



#### Results – Intangible

- Saved time and resources by
  - Standardizing communication within team and support agencies
  - Streamlining communication with borrowers
- Explained step by step the process to new staff (including the Program Manager)
- Helped get central and regional office staff on the same page resolved differences in how projects were managed and increased consistency



#### Key Takeaways for Success and Lessons Learned

- Key Takeaways for Success
  - Bring coffee and candy
  - Put boundaries around which processes to map
  - Define your team (anyone who has a role in the process)
  - Get <u>everyone on the team</u> in the room together (when it is safe)
  - Having a variety of experience is invaluable (need all and equal voice)



#### Key Takeaways for Success and Lessons Learned

- Key Takeaways for Success
  - Staff proven/staff led improvements are most effective
  - Action item ownership is key volunteer (best) or assign
  - Prioritize action items
  - Hold each other accountable
  - Did I mention? Bring coffee and candy!
- Lessons learned
  - Allow for enough time, including breaks
  - Set up a system to check on progress



#### **Virginia CWFAP Contact Information**

Karen Doran – Program Manager karen.doran@deq.Virginia.gov (804) 698-4133

https://www.deq.virginia.gov/

