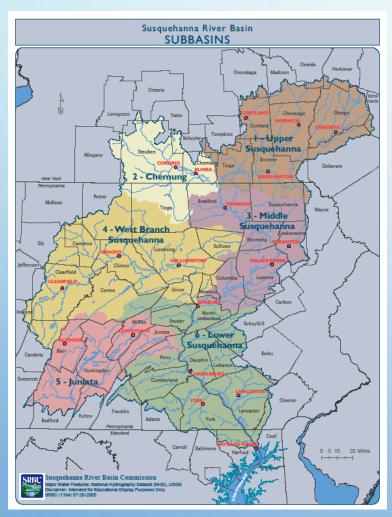
YORK COUNTY'S JOURNEY STORMWATER MANAGEMENT: COMPLIANCE, COORDINATION & COST

MAY 18, 2017

GIANT FOOD STORE COMMUNITY CENTER



REGIONAL MAPS OF THE CHESAPEAKE BAY WATERSHED





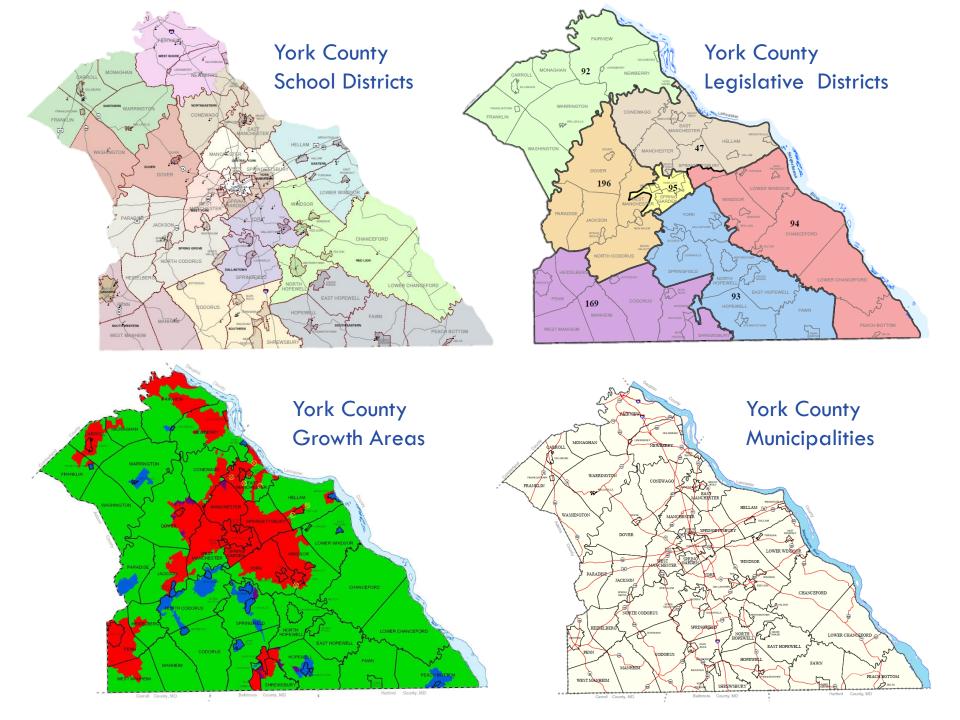


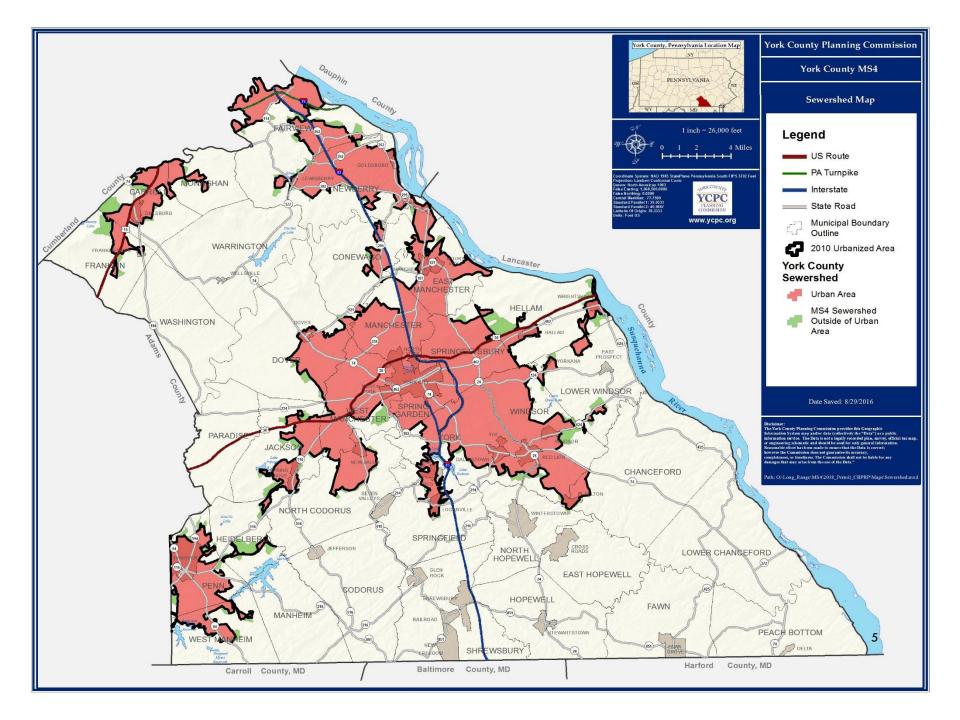
2

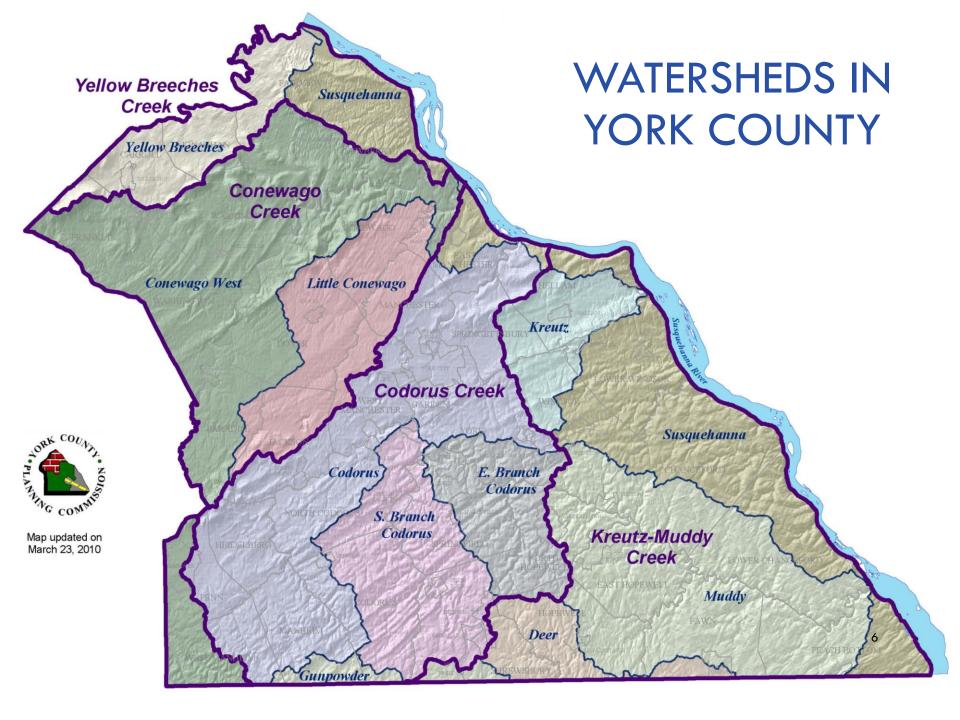
MAP OF PENNSYLVANIA

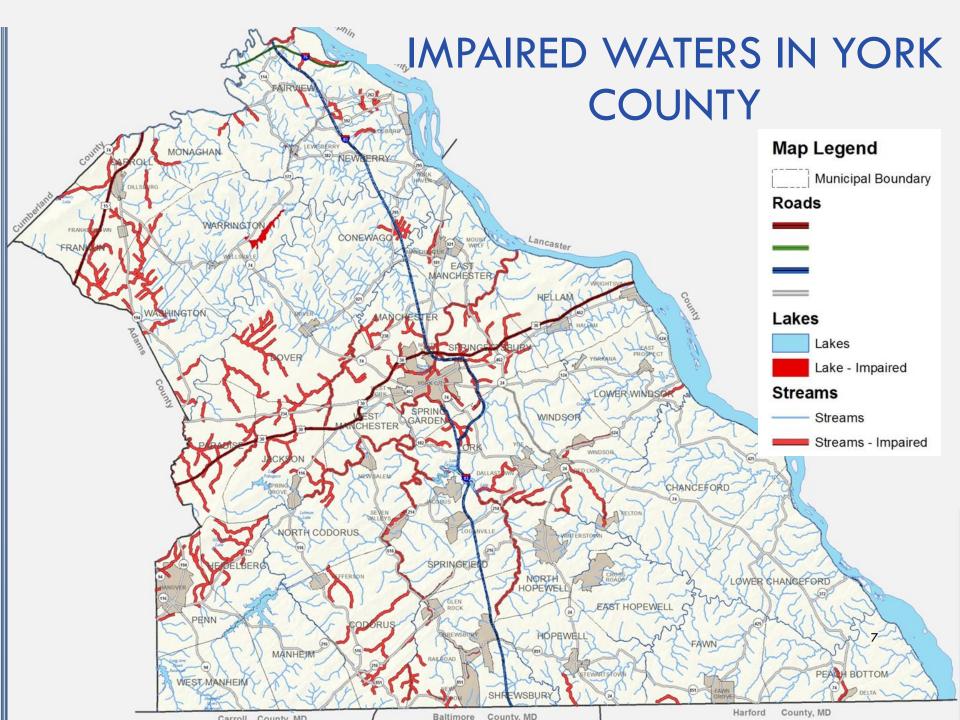














WE HAVE WATER ISSUES: HOW DO WE FIX THEM?

FEDERAL (Clean Water Act, Chesapeake Bay TMDL)

STATE (Act 167- Stormwater Management Act, Clean Streams law, Chesapeake Bay WIP)

COUNTY (IWRP, York
County WIP, Regional CBPRP, SWA
Feasibility Study)

MUNICIPAL (SWM Ord, ZO, SALDO, MS4 Permit, Local TMDL)

CHANGES IN HOW
WE DEVELOP OUR
LAND



YORK COUNTY'S STORMWATER JOURNEY

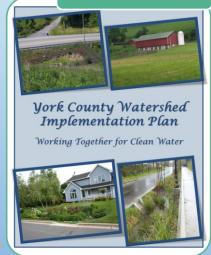




A component of the York County Comprehensive Plan

INTEGRATED WATER RESOURCES PLAN





YORK COUNTY REGIONAL CHESAPEAKE BAY POLLUTANT REDUCTION PLAN

DECEMBER 2014



(Prepared by the York County Planning Commission and Center for Watershed
Protection in cooperation with the Regional CBPRP Steering Committee)

REGIONAL CHESAPEAKE
BAY POLLUTANT
REDUCTION PLAN

STORMWATER AUTHORITY FEASIBILITY STUDY



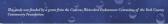
York County Stormwater Authority Feasibility Study

York County Planning Commission York, Pennsylvania

Tors, remsyndra



Amec Foster Wheeler Environment & Infrastructure, Inc. 751 Arbor Way, Suite 180 Blue Bell, Pennsylvania 19422





INTEGRATED WATER RESOURCES PLAN AND FLOW CHART

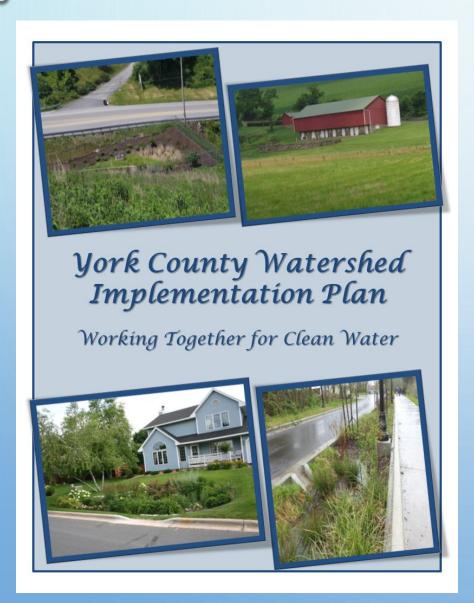
Integrated Water Resources Plan (IWRP)



A component of the York County Comprehensive Plan

- ADOPTED 2003
- AMENDED 2011
- GOAL WAS TO TIE
 EVERYTHING WATER
 RELATED TOGETHER AND
 DEVELOP A USER-FRIENDLY
 FLOW CHART

YORK COUNTY WIP



- ENDORSED BY COUNTY COMMISSIONERS SEPTEMBER 4, 2013
- GOAL WAS TO PROVIDE A STRATEGY FOR YORK
 COUNTY TO IMPROVE ITS WATERS

REGIONAL CBPRP

- SUBMITTED TO DEP DECEMBER
 2014
- APPROVED BY DEP AUGUST
 2015
- GOAL WAS TO COLLABORATE
 TO GET THE MOST BANG FOR
 OUR BUCK WHEN DOING
 BMP PROJECTS AND TO MEET
 MS4 PERMIT REQUIREMENTS
 COST EFFECTIVELY

YORK COUNTY REGIONAL CHESAPEAKE BAY POLLUTANT REDUCTION PLAN

DECEMBER 2014



(Prepared by the York County Planning Commission and Center for Watershed Protection in cooperation with the Regional CBPRP Steering Committee)



PROCESS OF REGIONAL CBPRP: BEFORE THE PLAN

IDEA

 Strategy From IWRP & York County WIP

PERMISSION

Discuss Idea with DEP

LOCAL SUPPORT

 Met with Municipal Engineers & YC Municipal Administrators Assoc.

FUNDING

 CBF provided a \$44,000 Technical Assistance Grant w/ CWP



PROCESS OF REGIONAL CBPRP: **DURING** THE PLAN

MUNICIPAL OPT IN: PLAN DEVELOPMENT

- Invited ALL 72 Municipalities
- 46 Opted-in to develop Plan
- No Cost to Participate

STEERING COMMITTEE

- Meetings
- Voting
- Other Stakeholders



PROCESS OF REGIONAL CBPRP: **DURING** THE PLAN

COLLECTED MUNICIPAL DATA

- Pervious/Impervious Coverage (GIS)
- Land Use (GIS)
- Municipal upgrades and LID evaluations
- Estimates of current loads (CAST)

PROJECT LIST

- Asked Participants to provide a list of possible stormwater projects/BMP's in their municipality.
- 72 control measures on BMP project list
- 9 control measures on 2014/2015 Action Plan

FUNDING FOR PROJECTS

- 4 Cost Scenarios
 - Flat Fee
 - Impervious Coverage
- Weighted (Imp Cov/LM Impaired streams/Pop)
- Base Fee Tiered

PROCESS OF REGIONAL CBPRP: AFTER THE PLAN

MUNICIPAL OPT IN: PLAN PARTICIPATION

Opt In by Resolution

SUBMISSION TO DEP

Approved by DEP August 31, 2015

INTERGOVERNMENTAL COOPERATION AGREEMENT

- Adopt by Ordinance
- Required for DEP Approval of Plan
- 5 yr term w/ option to extend annually by Resolution

IMPLEMENTATION OF THE PLAN

- Regional & Management Committees
- Collect Fees
- Carry out BMP Projects

INTERGOVERNMENTAL COOPERATION AGREEMENT (ICA)

BACKGROUND

GUIDING PRINCIPLES

ORGANIZATION

MEETINGS

AUTHORITY OF MANAGEMENT COMMITTEE

IMPLEMENTATION OF AGREEMENT

FINANCING

INTERGOVERNMENTAL COOPERATION AGREEMENT (ICA)

REGIONAL COMMITTEE

- ALL PARTICIPATING MUNI'S HAVE A PRIMARY AND ALTERNATE
- QUARTERLY MEETINGS
- VOTE ON PROJECTS AND PARTICIPATION OF MEMBERS
- DISCUSS ENFORCEMENT ACTION

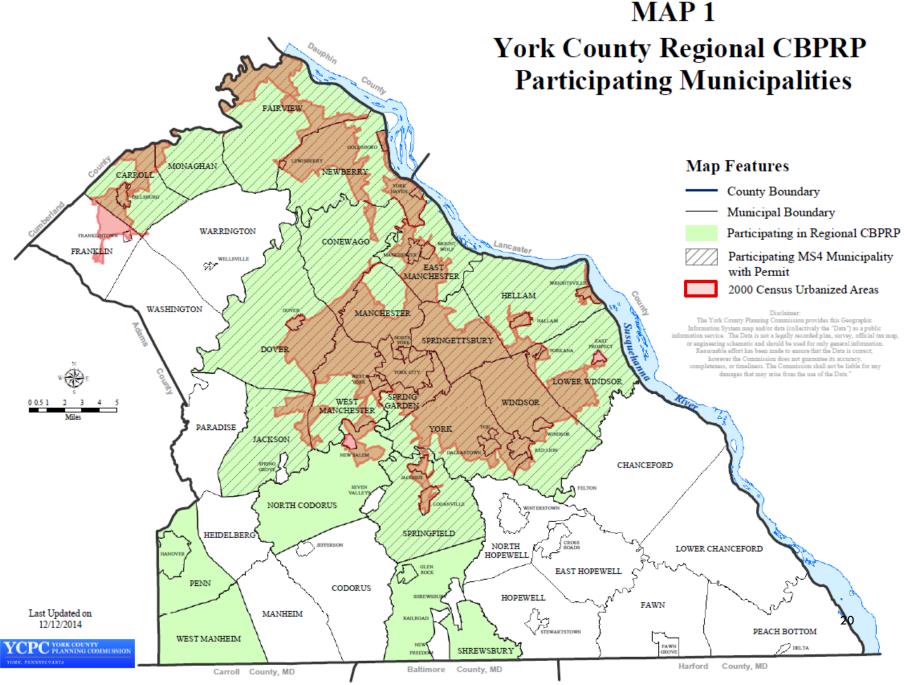
MANAGEMENT COMMITTEE

- 1 YEAR TERM
- 7 VOTING MEMBERS
- MAY CREATE SUBCOMMITTEES
- AUTHORIZE PAYMENTS
- ENSURE BMP PROJECTS ARE CONSTRUCTED AS APPROVED

YCPC-ADMINISTRATOR

- MINUTES
- COORDINATE MEETINGS
- NOTICE REQUIREMENTS
- INVOICES
- DRAFT REVISIONS
- PREPARE ANNUAL REPORTS





PROGRESS OF OUR CBPRP

- 44 OF THE 46 PARTICIPANTS OPTED INTO THE PLAN
- \$196,520 /YEAR FOR 5 YEARS (LIFE OF CURRENT PERMIT CYCLE)
- FUNDED 4 PROJECTS IN 2015
 - STREAM RESTORATION: IWLA BARSHINGER RUN
 - BIOSWALE: HELLAM TOWNSHIP (COMPLETED)
 - STREAM RESTORATION: WINDSOR BOROUGH
 - BIORETENTION & NATURALIZED AREA: WEST MANCHESTER TOWNSHIP (COMPLETED)
- APPROXIMATELY 630,000 LBS OF TSS, TN, & TP WILL BE REMOVED PER YEAR



YORK COUNTY'S STORMWATER JOURNEY CONTINUES

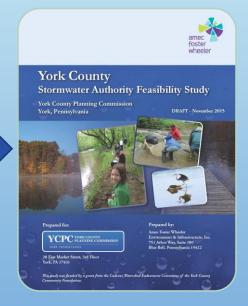
REGIONAL
CHESAPEAKE BAY
POLLUTANT
REDUCTION PLAN

YORK COUNTY REGIONAL CHESAPEAKE BAY POLLUTANT REDUCTION PLAN

DECEMBER 2014



(Prepared by the York County Planning Commission and Center for Watershed Protection in cooperation with the Regional CBPRP Steering Committee) Stormwater Authority Feasibility Study



2018 MS4
PERMIT
REQUIREMENTS





STORMWATER AUTHORITY



CURRENT VS NEW PRP

- 1 CBPRP REQUIRED
- SUBMISSION W/IN 1 YEAR OF PERMIT ISSUANCE
- NARRATIVE DESCRIPTION OF AREA DRAINING TO UA
- INCREMENTAL PROGRESS REQUIRED
- PROJECTS ANYWHERE IN UA
- IMPLEMENTATION SCHEDULE OVER SEVERAL PERMIT CYCLES
- O&M RESPONSIBILITY IDENTIFIED
- MUST EVALUATE INFRASTRUCTURE UPGRADES FOR GI POTENTIAL

- MULTIPLE PRP'S REQUIRED: CHES BAY AND EACH IMPAIRED STREAM
- PRPS SUBMITTED W/NOI
- DRAINAGE TO EACH OUTFALL MAPPED
- REQUIRED POLLUTANT REDUCTIONS
 CALCULATED FOR EACH PRP (10% S, 5% P, 3% N)
- PROJECTS ONLY W/IN STORM SEWERSHED
- MUST COMPLETE PROJECTS W/IN 5 YEARS
- O&M RESPONSIBILITY IDENTIFIED
- ADVERTISED PUBLIC COMMENT PERIOD REQUIRED
- DEVELOP STORM SEWERSHED FOR EACH REQUIRED PRP
- EXISTING LOADS FOR EACH PRP CALCULATED
- PROJECTS IDENTIFIED TO MEET REDUCTIONS FOR EACH PRP
- MAPS (SEWERSHEDS, LAND USE, PROJECTS)
- CAN PARSE
- FUNDING MECHANISMS IDENTIFIED
- MAY REDUCE EXISTING LOADS W/ PROPERLY DOCUMENTED BMPS



NEW PRP VS REGIONAL PRP APPROACH

- MULTIPLE PRP'S REQUIRED: CHES BAY AND EACH IMPAIRED STREAM
 - POLLUTANT REDUCTIONS FOR CHES BAY PRP BUT DIVIDED INTO 4 MAIN WATERSHEDS
- DRAINAGE TO EACH OUTFALL MAPPED
 - NOT REQUIRED FOR REGIONAL PRP
- DEVELOP STORM SEWERSHED FOR EACH REQUIRED PRP
 - SEWERSHED IS UA OF 4 MAIN WATERSHEDS PLUS WHAT DRAINS TOPOGRAPHICALLY INTO THEM
- EXISTING LOADS FOR EACH PRP CALCULATED
 - EXISTING LOADS CALCULATED FOR EACH MAIN WATERSHED



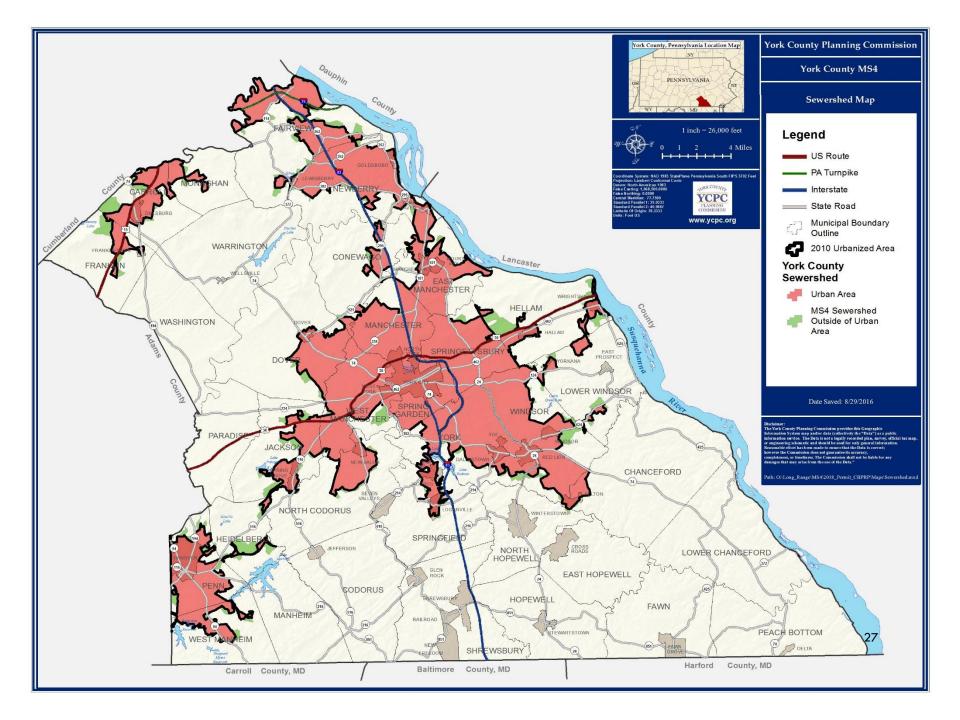
NEW PRP VS REGIONAL PRP APPROACH (CONT.)

- POLLUTANT REDUCTIONS REQUIRED FOR CBPRP <u>AND</u> EACH IMPAIRED STREAM PRP
 - CALCULATE AND MEET CHES BAY REDUCTIONS ONLY
- POLLUTANT ACCOUNTING (EXISTING LOADS & REDUCTIONS)
 FOR EACH PRP
 - ACCOUNTING IS BASED ONLY ON CBPRP AND SHARED AMONG 4 MAIN WATERSHEDS
- CAN PARSE
 - NOT GOING TO B/C IT PROVIDES FLEXIBILITY TO LOCATE PROJECTS & INCREASES PARTNERSHIP POSSIBILITIES
- PROJECTS ONLY W/IN STORM SEWERSHED
 - PROJECTS MAY BE OUTSIDE SEWERSHED W/PERMISSION



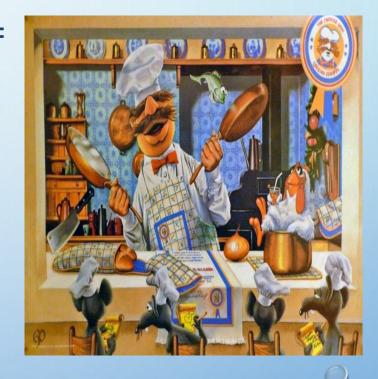
- PRPS SUBMITTED W/NOI
- A REQUIRED ADVERTISED PUBLIC COMMENT PERIOD
- MAPS (SEWERSHEDS, LAND USE, PROJECTS)
- MUST COMPLETE PROJECTS W/IN 5 YEARS
- O&M RESPONSIBILITY IDENTIFIED
- MAY REDUCE EXISTING LOADS W/ PROPERLY DOCUMENTED BMPS
- FUNDING MECHANISMS IDENTIFIED





INGREDIENTS FOR SUCCESS

- LEAD AGENCY W/DEDICATED STAFF
- ENGAGE EPA & DEP
- COST SAVINGS
- REGULATORY CONSIDERATION
- P3- PUBLIC PRIVATE PARTNERSHIP AND PATIENCE, PERSISTENCE, PROFESSIONAL HELP







YORK COUNTY PLANNING COMMISSION

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