





"RECENT" FLOODING EVENTS

- 1972 (HURRICANE AGNES)
- 2006
- 2011(HURRICANE IRENE & TROPICAL STORM LEE)
- 2018

SO I HEAR YOU WERE FLOODED!

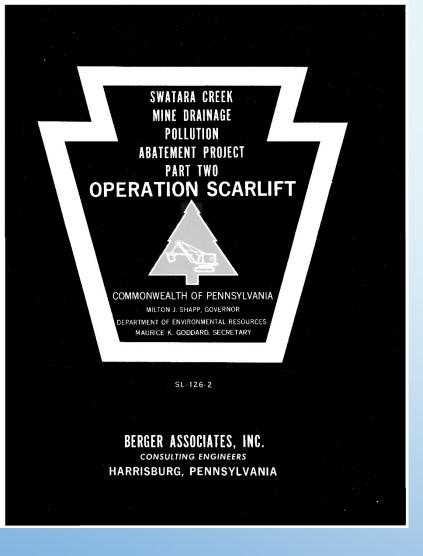




NOW WHAT?

- FEMA: WE'RE HERE TO HELP
- LET'S GET TOGETHER AND SOLVE THE PROBLEM
- WATERSHED FLOOD RECOVERY COMMITTEE
- RECOVERY STRATEGY
- FEMA: GOOD LUCK & GOOD BYE





UPPER SWATARA CREEK TMDL WATERSHED IMPLEMENTATION PLAN

Schuylkill County, Pennsylvania

May 2006

Prepared by:

Schuylkill Conservation District 1206 Ag Center Drive Pottsville, PA 17901

Schuylkill Headwaters Association, Inc. P.O. Box 1385 Pottsville, PA 17901

> RETTEW Associates, Inc. Union Street Station 101 East Union Street Pottsville, PA 17901

> > For submission to:

Pennsylvania Department of Environmental Protection and United States Environmental Protection Agency

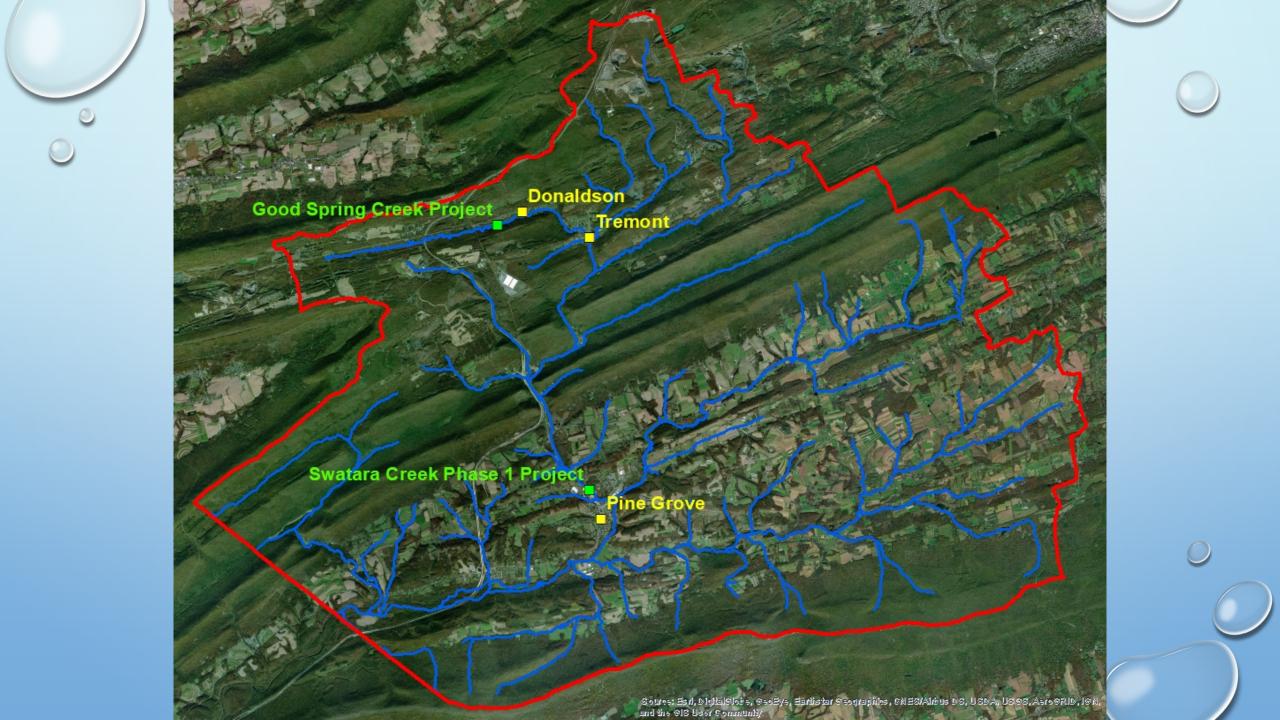
Funding to complete this plan was provided by the Pennsylvania Department of Environmental Protection through Section 319 of the Federal Clean Water Act administered by the U. S. Environmental Protection Agency. 2012

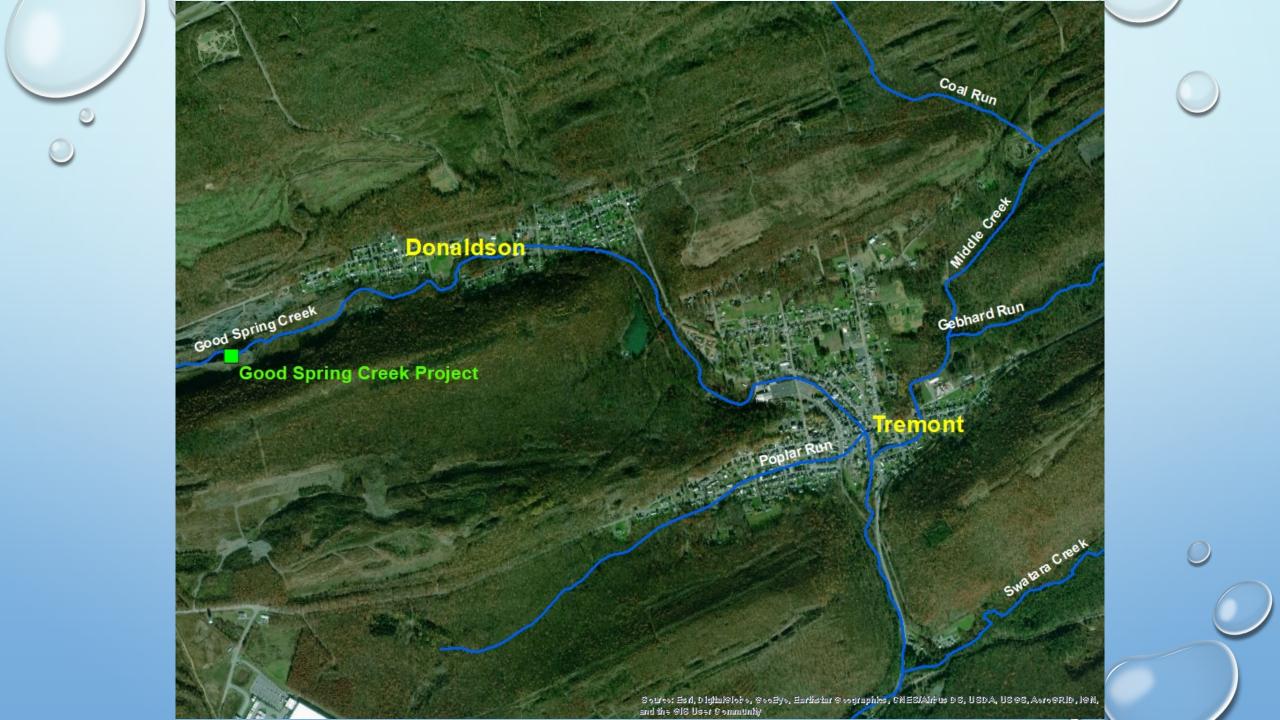
Pine Grove Area/Upper Swatara Watershed Pennsylvania Recovery Strategy















GOOD SPRING CREEK FLOODPLAIN PROJECT FUNDING

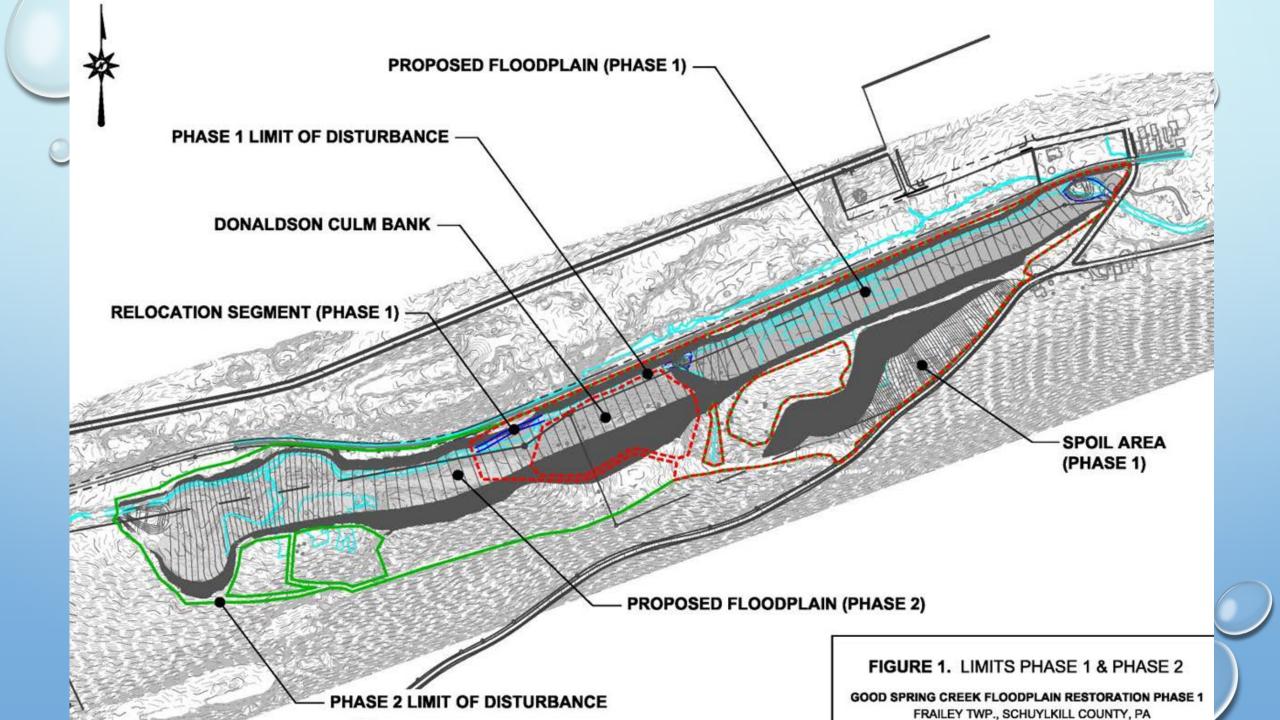
DESIGN

• 2012 SECTION 319 – \$151,022

CONSTRUCTION

- 2015 GROWING GREENER \$449,445
- 2015 CFA (ACT 13) WRPP \$300,000
- 2016 GROWING GREENER \$230,000
- 2017 AML PILOT PROJECT \$6,600,000









CHALLENGES

- THREE LANDOWNERS
- ~700,000 1,000,000 TONS OF MATERIAL TO EXCAVATE
- WHERE TO GO WITH REJECT/EXCESS MATERIAL
- EAST FRANKLIN ROAD & RAUSCH CREEK ROAD BONDING/REPAIRS
- COGENERATION PLANT OWNERSHIP CHANGE



BENEFITS

- CREATION OF APPROXIMATELY 18 ACRES OF FLOODPLAIN & WETLANDS
- RESTORATION OF APPROXIMATELY 4,600 LINEAR FEET OF ENTRENCHED STREAM CHANNEL
- REMOVAL OF 700,000 1,000,000 TONS OF HIGHLY ERODIBLE SEDIMENT
- CAPTURE OF UPSTREAM SEDIMENT
- REDUCED SEDIMENTATION IN GOOD SPRING & SWATARA CREEKS
- REDUCED FLOOD IMPACTS TO DOWNSTREAM COMMUNITIES
- FRAILEY TOWNSHIP COMMUNITY PARK







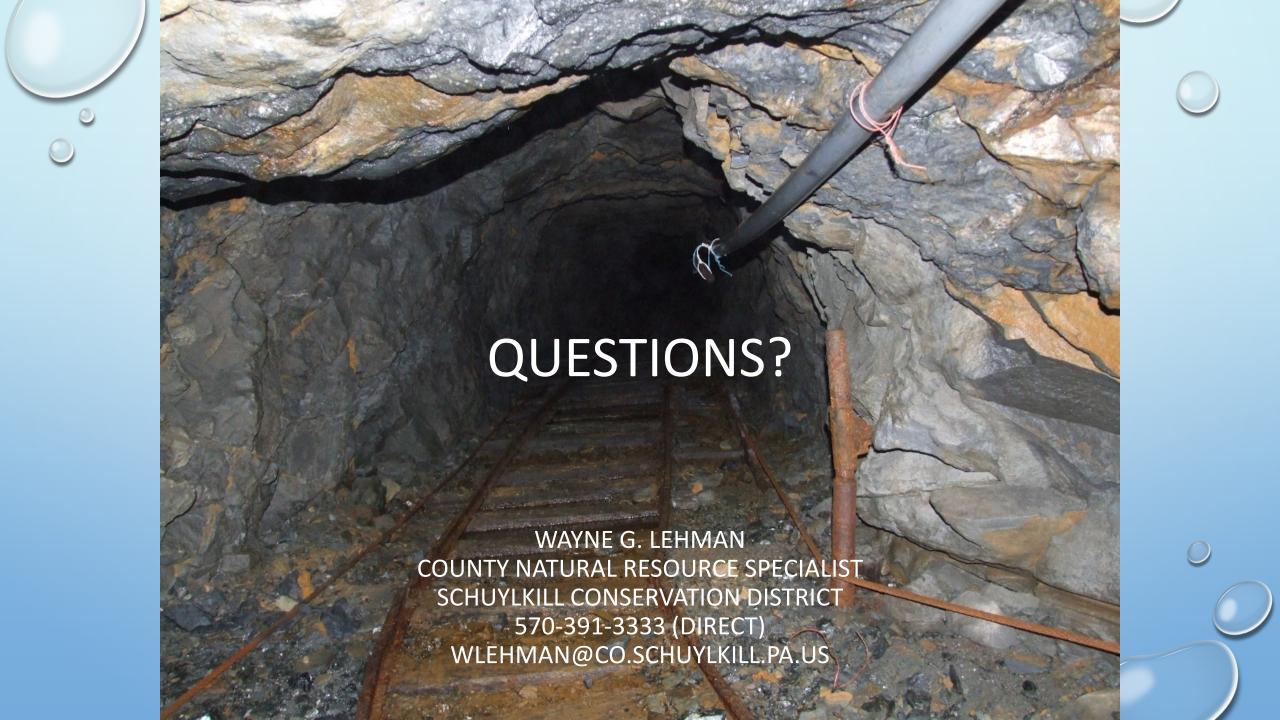


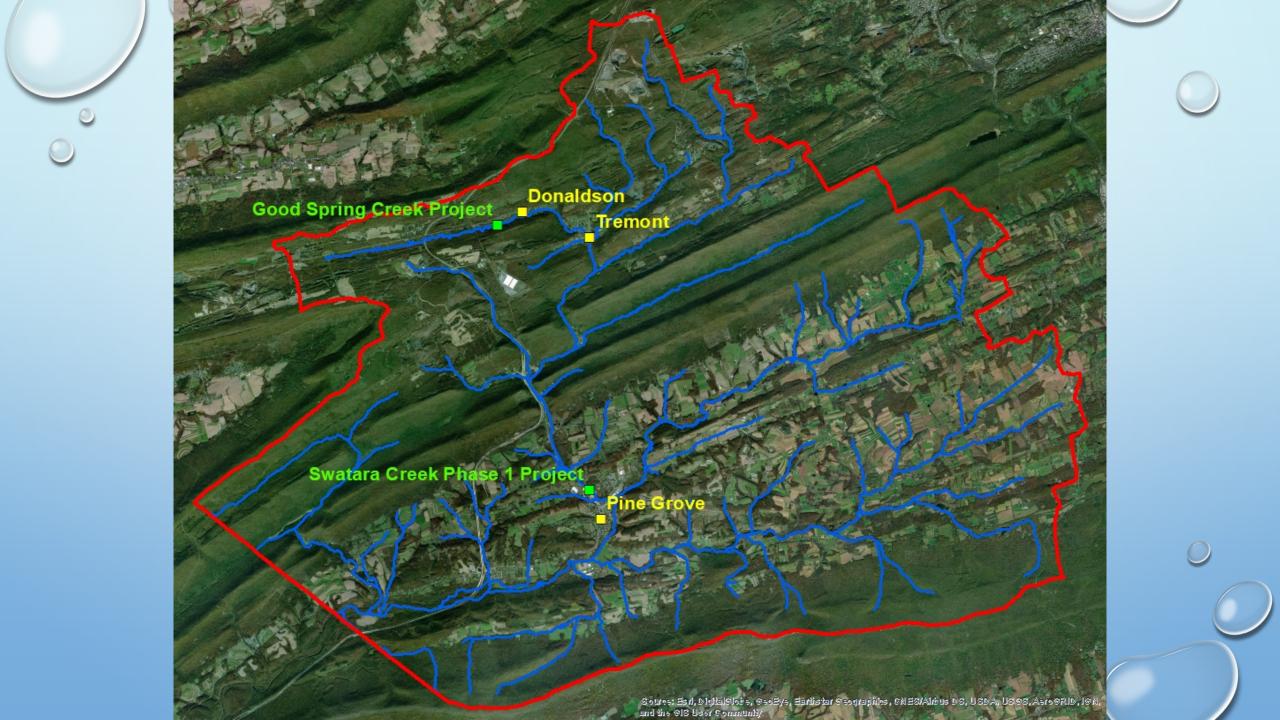
















SWATARA CREEK FLOODPLAIN PHASE 1 PROJECT FUNDING

DESIGN

- 2013 GROWING GREENER \$300,700
- CONSTRUCTION
 - 2016 GROWING GREENER \$2,991,000
 - 2016 DCED CDBG-DR \$3,000,000





CHALLENGES

- TWO LANDOWNERS
- LANDOWNER REQUESTS
- UTILITIES RELOCATION COSTS
- ~100,000 TONS OF MATERIAL TO EXCAVATE
- WHERE TO GO WITH EXCAVATED SOIL MATERIAL
- LOVER'S LANE BONDING/REPAIRS
- TWO GRANTS FUNDING PROJECT



BENEFITS

- CREATION OF APPROXIMATELY 7 ACRES OF NEW WETLANDS
- CREATION OF APPROXIMATELY 10.5 ACRES OF FLOODPLAIN
- REDUCE 1% CHANCE FLOOD HEIGHT ELEVATIONS IN NORTH PINE GROVE BY 28"
- PROJECT BECOMES PART OF OPEN GREEN SPACE FOR POTENTIAL TRAIL CONNECTIVITY