Agenda

▶ Welcome & Introduction

▶ Recap Discussion session

▶ Transportation wrap-up

▶ Transportation roundtable

▶ Infrastructure presentation

▶ Infrastructure roundtable

▶ Public Comment

Steering Committee Meetings

- Part 1: Discussion of component areas
  - Demographics
  - Existing Land Use
  - Housing
  - Transportation
  - Infrastructure and Utilities
  - Economy and Economic Development
  - History, Community, and Culture
  - Natural Resources, Parks, and Open Space
- Part 2: Vision, Recommendations, and Implementation Strategies
- Part 3: Draft Chapters of Plan Document

	2020					2021												2022								
	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9
Background Data	x	x	x	x	x	x	x	x	x																	
Visioning		x				x		x		x																
Public Workshops Part 1								x																		
Public Input Online Survey									x	x	x															
Analysis and Development of Recommendations and Strategies										x	x	x	x	x	x	x										
Drafting and Revising Plan Document														x	x	x	x	x	x	x	x	x				
Public Workshops Part 2																				x						
Public Review of Draft Document																						x	x	x		
Adoption																										x

Steering Committee Meetings

2020

- August
  - **Demographics**
- September
  - **Existing Land Use**
  - Preserve, Enhance, Transform
- October
  - **Housing**
- November
  - **Transportation**
- December
  - **Transportation, Infrastructure & Utilities**

2021

- January
  - **Economic Development and Employment**
  - Visioning

2021

- February
  - **Community, History, Culture**
  - Plan Public Workshop
  - Survey Development
- March
  - **Nature and Open Space**
  - Public Workshop
- April
  - Debrief Public Workshop
  - **Data Loose Ends**
  - Visioning
  - [survey available]
- May
  - Analysis and Development of Recommendations

Infrastructure

The systems that move our resources

What do we mean by infrastructure?

- Communication and Information networks
- Electricity generation and distribution
- Fuel refineries and pipelines
- Water treatment and distribution
- Sanitary Sewers and wastewater treatment
- Stormwater management
- Trash and Recycling collection

Trash and Recycling

▶ Trash and Recycling collection provided by **J.P. Mascaro & Sons** company

▶ Recycling can reduce environmental impacts, but may require some outreach to encourage participation and prevent contamination

▶ Are there trash or recycling issues to address in Lower Providence?

Alternative Energy

Solar energy – most common in our region

- ▶ Small-scale installations: residential or commercial buildings
- ▶ Utility-scale installations

Wind energy

- ▶ Less common locally

Electric vehicles and charging points

Water Supply: 7,051 connections

Audubon Water Company: **2,661** connections

▶ Supplies areas in the south east of Lower Providence, including Park Pointe business park and Valley Forge Crossing

PA American Water Company (Norristown District): **4,063** connections

▶ Serves Lower Providence and 11 other Montgomery County municipalities

Small-Scale Suppliers (various): **327** connections

▶ Small systems serve institutions and developments in outlying areas of the township

Individual Wells are less regulated and serve other properties where public service is unavailable or infeasible
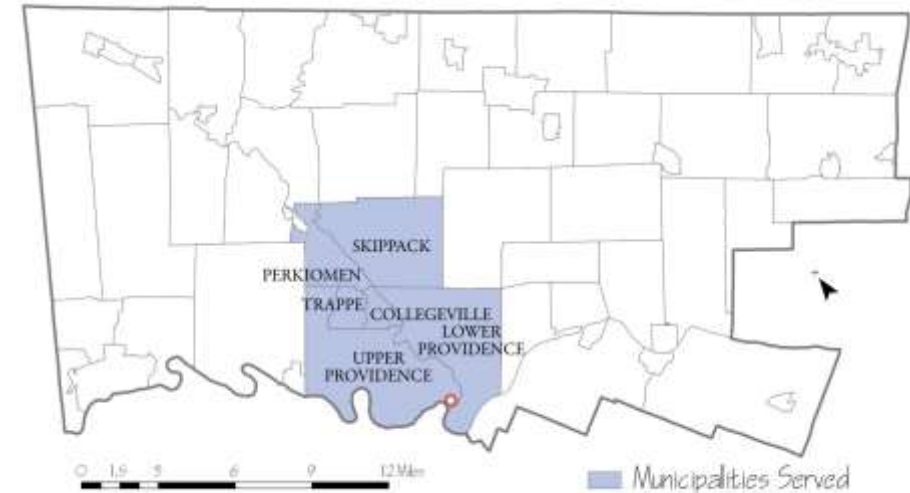
Sanitary Sewers

Lower Providence Sewer Authority

- Owns and maintains the pipes and pumps that serve most of the township's sewer service connections

Oaks Wastewater Treatment Plant

- Receives and treats wastewater from Lower Providence and 5 other municipalities in the lower Perkiomen Valley

Small facilities

- 2 small facilities serve a limited number of customers in the township

- On-lot systems are in service in outlying areas of the township

Stormwater Management

NPDES – National Pollution Discharge Elimination System

EPA and state permit program regulating water outlets, like from a wastewater plant or stormwater sewer

MS4 – Municipal Separate Storm Sewers

► EPA and state program requiring built-up areas to manage stormwater with a dedicated stormwater management system

MCM – Minimum Control Measures

► Six elements required of every MS4 program:

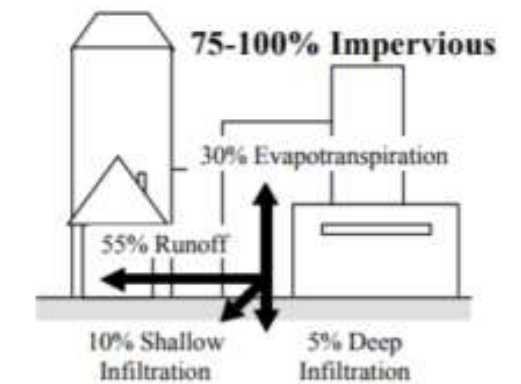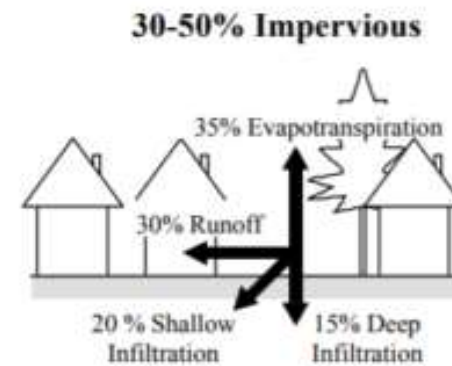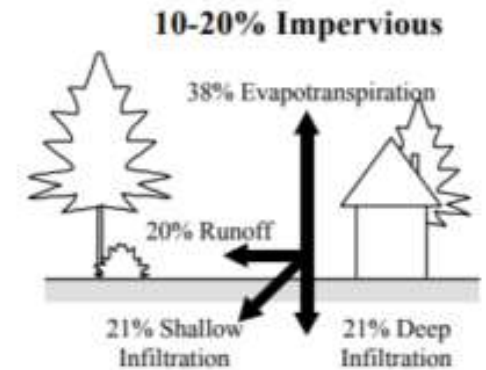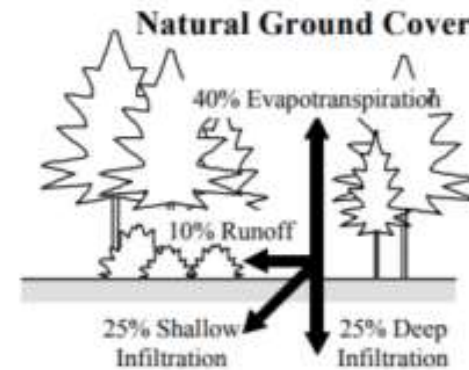| Public Education and Outreach	Construction Site Erosion Control	Public Participation and Involvement
Post Construction Stormwater Management	Illicit Discharge Detection and Elimination	Pollution Prevention and Good Housekeeping

Stormwater in Lower Providence

- Rainfall levels are increasing, with larger, more frequent storms

- Stormwater runoff causes erosion, property and infrastructure damage

- PADEP estimates **34%** of the township is impervious cover

- 9 Impaired streams in the township

Natural Ground Cover
40% Evapotranspiration
10% Runoff
25% Shallow Infiltration
25% Deep Infiltration

10-20% Impervious
38% Evapotranspiration
20% Runoff
21% Shallow Infiltration
21% Deep Infiltration

30-50% Impervious
35% Evapotranspiration
30% Runoff
20 % Shallow Infiltration
15% Deep Infiltration

75-100% Impervious
30% Evapotranspiration
55% Runoff
10% Shallow Infiltration
5% Deep Infiltration

Source: Adapted from Arnold and Gibbons, 1996

Stormwater Issues

- Older stormwater management systems can be overwhelmed by more intense rainfall

- Runoff from developed areas upstream can contribute to flooding in lower areas

- Runoff and flooding can damage other infrastructure, buildings, and other property and pose risks to health and safety.

Where have you seen stormwater issues?

Taking Action

Regulation

▶ Ordinances can ensure that new development installs stormwater systems that match best management practices and limits impervious coverage

Outreach

▶ Communication with residents helps to locate issues and provide guidance for reducing runoff

Design and maintenance

▶ Township facilities can demonstrate best management practices and protect people and public investments

Next Steps…

- MCPC: Submission to PC of background materials on upcoming topics
  - January 20: Economic Development and Employment
  - February 17: Community, History, and Culture

- Steering Committee:
  - Continue to think about your vision for Lower Providence's future.
  - We will soon be devising public participation events and surveys. Consider what topics are most valuable to focus on for public input.