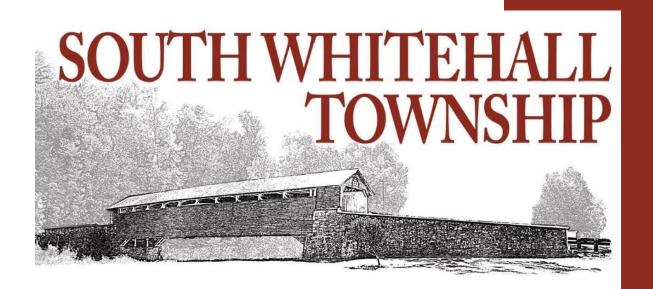
2021 Comprehensive Plan Update

Phase 4 – Community Utilities Workbook



Community Utilities Workbook South Whitehall Township 2021 Comprehensive Plan Update

<u>Comprehensive Plan Update:</u> <u>Working Groups Introductory Meeting</u>

In March 2021, South Whitehall Township kicked off Phase 4 of the Comprehensive Plan Update. South Whitehall is excited to have community participation in the Phase 4 Working Groups: Housing; Transportation; Resource Protection; Community Facilities; and Community Utilities.

When did Phase 4 of the Comprehensive Plan Update begin?

The Comprehensive Plan Phase 4 Kickoff Meeting on March 31st, 2021 introduced the five Working Groups which reflect the required Plan Elements from the PA Municipalities Planning Code (MPC). Community members joined Township staff, elected officials, and the Lehigh Valley Planning Commission (LVPC) to learn more about how to engage in the Working Groups. The meeting reviewed work to date, and LVPC staff provided brief presentations during breakout sessions on existing conditions and how each topic fits into regional context.

What's next?

Community participation is needed to assess existing conditions and develop Working Group recommendations during Phase 4 of the Comprehensive Plan Update. The groups will follow the meeting schedule on the next page, where Working Group members will evaluate data and future scenarios, and build out recommendations for the Comprehensive Plan Update.







<u>Comprehensive Plan Update:</u> <u>Phase 4 Working Groups Timeline</u>

Introductory Virtual Meeting [All Working Groups together]: Tuesday, June 29th, 2021, 6-8PM



Meeting #1 – Existing Conditions [by Topic Area]: Week of July 12th



Meeting #2 – Recommendation Brainstorm with Subject Matter Experts from LVPC [by Topic Area] Virtual Meetings: Week of July 19th

7/19, 6-7:30PM: Community Facilities

7/20, (Sessions 1 and 2 running concurrently) 6-7:30PM: 1) Transportation 2) Housing

7/21, (Sessions 1 and 2 running concurrently) 5:30-7PM: 1) Resource Protection 2) Community Utilities



Meeting #3 – Develop Recommendations [by Topic Area]: Week of August 2nd



Concluding Meeting Working Groups [all Working Groups together]: Week of August 9th





PHASE 4 – COMMUNITY UTILITIES WORKBOOK

Phase 4 Working Group Resources

- South Whitehall Comprehensive Plan Update Webpage: www.southwhitehall.com/compplan
- South Whitehall Township 2009 Comprehensive Plan: <u>https://www.southwhitehall.com/Home/ShowDocument?id=575</u>
- South Whitehall Township Comprehensive Plan Update "Where Should We Grow?" StoryMap: https://storymaps.arcgis.com/stories/d7a161a6324c4b39beaa4af2eeafc24b
- South Whitehall Township Comprehensive Plan Update Existing Conditions Report: <u>https://ksand.southwhitehall.com/PDF/CompPlan/ExistingConditionsReport_20190618.pdf</u>
- South Whitehall Township Comprehensive Plan Update Planning Trends Supplement: https://ksand.southwhitehall.com/PDF/CompPlan/PlanningTrends_Supplement.pdf
- Lehigh Valley Planning Commission (LVPC) and Lehigh Valley Transportation Study (LVTS) Comprehensive Plan and Long-Range Transportation Plan FutureLV: <u>https://www.lvpc.org/futurelv.html</u>
- March 31st Phase 4 Kickoff Meeting Recordings and Presentations here: <u>https://www.southwhitehall.com/departments/community-development/land-development/planning/comprehensive-plan-update/phase-4-kick-off-meeting</u>

Access All Resources on the Community Utilities Working Group webpage at <u>www.southwhitehall.com/communityutilities</u> or with the QR Code:



COMMUNITY UTILITIES WORKBOOK





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Contact Information

Name	Title	Contact Info
South Whitehall Township		
David Manhardt, AICP	Director of Community Development	manhardtd@southwhitehall.com
Gregg Adams	Planner	adamsg@southwhitehall.com
Michael Baker International		
Hannah Clark, AICP	Phase 4 Meeting Facilitator	Hannah.Clark@mbakerintl.com
Chris Rabasco	Phase 4 Meeting Facilitator	Chris.Rabasco@mbakerintl.com





Guiding Principles



Protect natural, historical, recreational, scenic, open space, and agricultural, amenities, resources, and assets.



Coordinate future land use, development, and redevelopment, in sync with the capacity of the road network and utilities to absorb changes.



Promote an effective continuation of opportunities, facilities and services for open space, parks, recreation, education, public safety, and wellness.



Promote techniques to limit the sprawling pattern of development, by advocating for land use with more effective smart growth attributes.



Coordinate with PennDOT, LVPC, and adjoining Municipalities, in order to alleviate existing problems and to avoid future conflicts, and to promote opportunities for alternative transportation such as bus service, ride sharing, bicycling, and walking.







MPC Guidelines: Comprehensive Plan

The Pennsylvania Municipal Planning Code (MPC) enables local jurisdictions to conduct a comprehensive planning process to identify areas where growth and development will occur so that a full range of public infrastructure services, including sewer, water, highways, police and fire protection, public schools, parks, open space and other services can be adequately planned and provided as needed to accommodate growth.

The comprehensive plan, consisting of maps, charts, and textual matter, shall include, but not be limited to, the following related basic elements:

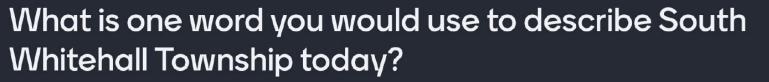
- Statement of objectives concerning future development, including, but not limited to, the location, character and timing of future development
- A plan for land use
- A plan to meet the housing needs of present residents and of those individuals and families anticipated to reside in the municipality
- A plan for movement of people and goods
- A plan for community facilities and utilities
- A statement of interrelationships among the plan components
- A discussion of short- and long-range plan implementation strategies
- A statement indicating that the existing and proposed development of the municipality is compatible with the existing and proposed development and plans in contiguous portions of neighboring municipalities
- A plan for the protection of natural and historic resources to the extent not preempted by federal or state law

The MPC requires that comprehensive plans shall be reviewed at least every ten (10) years.











Mentimeter





<u>South Whitehall Future:</u> <u>Phase 4 Kickoff Meeting March 31, 2021</u>

What is one word you would use to describe your vision for South Whitehall Township 10 years from now?



Mentimeter



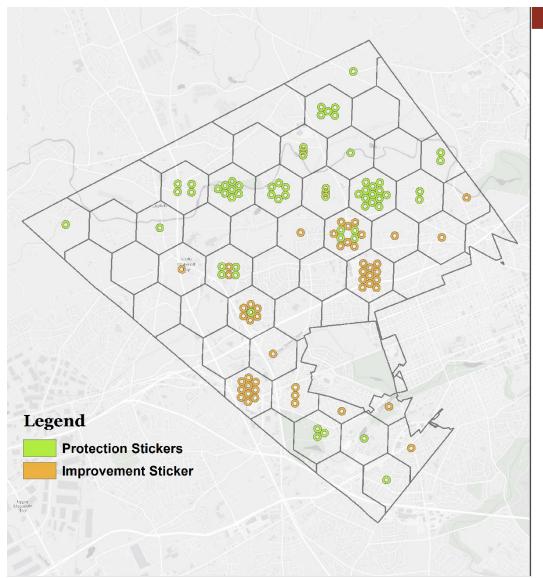


Framing Concepts

- **1.** South Whitehall Growth and Future Land Use
- 2. South Whitehall Economic Development Scenario presented by 4ward Planning
- 3. South Whitehall Transportation Model presented by Keystone Consulting Engineers







South Whitehall Township Growth and Future Land Use

WHERE SHOULD WE GROW?

This map presents results of the "Where should we grow?" build out exercises conducted throughout South Whitehall Township. These included four public engagement meetings, two focus group meeting and a joint meeting between the Board of Commissioners and the Planning Commission. Participants were asked to accommodate future growth in population and jobs. This was accomplished by participants placing stickers on a map of South Whitehall Township divided into hexagons. Thus, answering the question "Where should we grow?".

In addition to placing future population and jobs, participants were asked to indicate areas to protect and areas to improve. Each group was provided two green stickers (protect) and two orange stickers (improve). These were purposely limited to two each to encourage discussion and thoughtful placement among the groups.

This map of the South Whitehall Township is divided into hexagons. Each hexagon depictes an area of the township. These areas have been used to classfiy existing development. Theses hexagons were then used to determine where future development should occur.





PHASE 4 – COMMUNITY UTILITIES WORKBOOK

How Should We Grow? – Survey Results GREENFIELD

G1 G10 G10 **G**8 South Wisterfoll Two



Single-Family Dwellings, Compact Arrangement, Central Green, Open Space Preservation

G1. Greenfield—Low Population—No Employment



Commercial/Retail Use, Multi-Tenant, Context-sensitive Architecture, Village-type setting

8. Greenfield—No Population—Low Employme



G10. Greenfield—Low Population—Low Employmer





PHASE 4 – COMMUNITY UTILITIES WORKBOOK

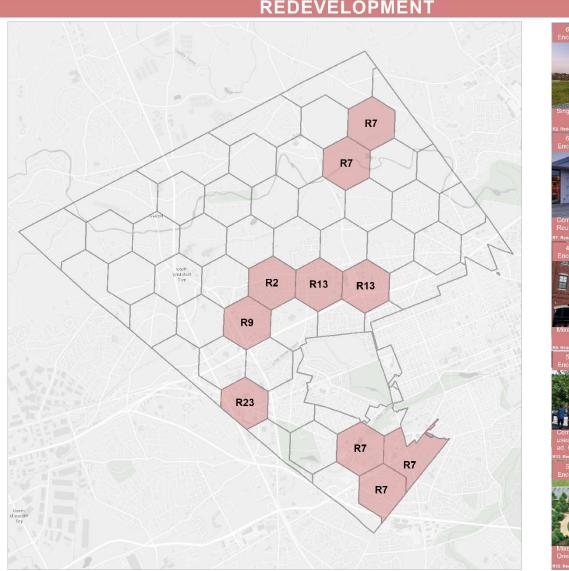
How Should We Grow? – Survey Results

INFILL









How Should We Grow? Survey Results REDEVELOPMENT







South Whitehall Economic Development Scenario Presented by 4ward Planning

A fiscal impact analysis examines the linkage between local government revenue generated by new development and its resultant municipal service costs (e.g., police, fire, schools, sanitation, etc.). The outcome of such an analysis is to produce a project-related estimate of community service costs to projected revenues, a "cost-revenue ratio," which will be positive (a revenue surplus), negative (a revenue shortfall), or neutral (break-even).

4ward Planning will evaluate the projected fiscal impacts (utilizing current service cost and tax rate metrics) for various build-out scenarios according to proposed zoning within South Whitehall Township.

Utilizing its proprietary fiscal impact model (inclusive of the latest residential multipliers identified within Pennsylvania), we will incorporate projected revenue and expenditure figures provided by the township and local school district, allowing for an examination of their relationship to existing land-use, employment, and population factors. 4ward Planning will then use the model to evaluate the projected fiscal impacts and potential public facility needs associated with various development scenarios (e.g., single-family detached housing; multi-family housing; shopping center development, professional/medical office; light industrial, etc.).

We will examine the following prospective outcomes:

- Estimate of development-generated capital needs/costs
- Estimate of development-generated municipal service costs/revenues
- Estimate of development-generated public-school district costs/revenues
- Estimate of development-generated public school-age children
- Estimate of development-generated employment (permanent)

4WARD PLANNING

4ward Planning will use one or a combination of qualitative and quantitative methods to conduct the fiscal impact analyses, based on the two fiscal impact methodologies most often employed by land-use practitioners: Per Capita Method and Case Study Methods.

The fiscal impact model is designed to perform sensitivity testing, such that changes to development type or intensity, value factors, etc. will update impact outputs.

The value of incorporating a fiscal impact analysis during the comprehensive planning process is to identify likely service and/or capital costs associated with permitted future development. In this way, comprehensive plan stakeholders can determine, in advance of development occurring, if the projected impacts will be detrimental or beneficial to the township and by what degree.

It should be understood, however, that the fiscal impact analysis model is based on currently known factors and, as such, cannot precisely predict future impacts; however, its utility is in illuminating the likely direction (positive or negative impact) and scale (how many new residents and school students; how many new employees; what increase in municipal and school district personnel might result; what new municipal and/or school district facilities might be required).

Michael Baker

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South Whitehall Transportation Model Presented by Keystone Consulting Engineers



<u>An Evaluation of Future Traffic Impacts Associated with Planned Greenfield, Urban Infill, and Redevelopment in South</u> <u>Whitehall Township</u>

Keystone Consulting Engineers, Inc. has prepared this traffic evaluation in support of South Whitehall Township's comprehensive plan update. The purpose of this evaluation is to inform future planning efforts by identifying highlighting traffic impacts associated with greenfield, urban infill, and redevelopment in the areas identified during volunteer public workshop sessions. This evaluation will also provide various mitigating strategies that could be considered for areas where congested traffic conditions are anticipated.

The above noted analysis was performed in accordance with the following methodology:

- **Study Scope:** Critical intersections along the major roadway corridors within the Township have been identified to use as a basis of determining traffic impacts. These intersections were selected based on KCE's local knowledge of the Township and based on guidance received from Township Staff.
- **2040 Base Traffic Conditions:** A 2040 Base Traffic Scenario was developed to use as a baseline by which to compare the impacts of a future Township development scenario. This base scenario was prepared as follows:
 - Existing traffic counts were compiled for the study intersections using traffic impact studies submitted to South Whitehall Township as part of various land development projects. Where existing traffic count information was not available from prior studies, KCE engaged Tri-State Traffic Data to perform new traffic counts, which were subsequently adjusted to account for fluctuations in traffic volumes resulting from the COVID-19 pandemic. The existing traffic volumes were then projected to the year 2040 using a static growth rate for Lehigh County as published by PennDOT's Bureau of Planning & Research.
 - Anticipated traffic volumes from approved developments in the Township (not reflected in the above mentioned counts) were also obtained from submitted traffic studies and were layered onto the 2040 traffic projections to arrive at a 2040 base scenario. The quality of traffic flow was determined using the Intersection Capacity Utilization (ICU) method, which provides a quantitative index of intersection performance and also provides qualitative flow descriptions for Levels of Services (LOS) A through H, where LOS A indicates no congestion and LOS H indicates excessive prolonged periods of traffic congestion during peak periods.





South Whitehall Township Transportation Model – Continued

- **2040 Future Traffic Conditions:** A 2040 Future Scenario was developed based the greenfield, redevelopment, and urban infill conditions identified during the planning workshops. Specific locations where this traffic was expected to enter the roadway network were provided by Township Staff.
- **Trip Generation and Distribution:** Trip Generation for the various development types was determined using the ITE Trip Generation Manual, Tenth Edition, for representative land uses for retail, residential, and industrial land use types.
 - Trips generated from planned multi-use sites in the Township were reduced to account for internal (shared) trips between uses (an example of a shared/internal trip would be traveling to the grocery store and also stopping at the bank located on the same site as part of the same trip). Further, shared trips that were expected to occur between uses within the Township were also identified and generally accounted for in the analysis (an example of this would be a Township resident making a trip from their home to a retail shopping center located within the Township. In this event the trip originates and terminates within the Township and does not result in an external trip into or out of the Township).
 - The specified trip generation was also reduced to account for trips for retail uses being served by traffic that is already present on adjacent roadways. This is referred to as a "pass-by" trip (an example of a pass-by trip would be stopping for gas on the way home from work along the normal commuter route).
 - The analysis was limited to vehicular traffic, although it is generally recognized that other modal transportation choices would generally serve to reduce traffic impacts (i.e. LANTA bus service, Biking, and/or walking along sidewalks or other defined pedestrian routes).
 - The above noted trips were then distributed to the extents of the Township and/or to origins/destinations within the Township in a proportional manner in accordance with existing roadway traffic volumes and/or using engineering judgement.
- Anticipated traffic volumes from the future development types identified were then layered onto the 2040 Base traffic conditions and evaluated for quality of traffic flow using the above described Intersection Capacity Utilization method. Areas of significant degradation were noted and indicated as areas where special consideration is recommended to maintain the quality of traffic flow
- Since this evaluation was performed for planning purposes and was therefore not prepared to the rigors of a formal traffic impact study, specific mitigating improvements for areas anticipated to be affected by development traffic were not identified. However, structural mitigating improvements could generally include roadway widening/lane additions, interchange modifications, signal timing adjustments, and/or enhancement of alternate transportation modes and infrastructure, such as expanding public transportation routes, construction of sidewalks and/or bike paths, etc. Planning efforts could also be employed to help mitigate future traffic impacts including the encouragement of multi-use development to facilitate trip sharing. Lastly, travel-demand management strategies could be considered in an effort to influence driver behavior to reduce traffic congestion during peak periods (i.e. staggering of employment shift times, provision of incentives for ride-sharing, etc.).



COMMUNITY UTILITIES WORKBOOK

Michael Baker

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Working Group Meeting #1: <u>Existing Conditions</u>

This meeting will focus on the current existing conditions for Community Utilities in South Whitehall Township. Relevant information will be discussed and presented from the growth, economic development, and transportation scenarios, the South Whitehall Township 2009 Comprehensive Plan, Comprehensive Plan Update Guiding Principles [2019], Comprehensive Plan Update Existing Conditions Report [2019], and the 2019 regional comprehensive plan FutureLV.

Goals

Identify significant data trends within South Whitehall Township

- Identify where updated data and/or additional information is needed
- > Complete Existing Conditions Discussion Template

Outcome

Solidify a baseline understanding of current data and information to best inform the recommendation process.





MPC Guidelines: Community Utilities

The PA Municipalities Planning Code (MPC), Act of 1968, P.L.805, No. 247 as reenacted and amended states in Article III, Section 301, that in the Preparation of Comprehensive Plans, in relationship to Community Utilities, shall include:

(4) A plan for community facilities and utilities, which may include public and private education, recreation, municipal buildings, fire and police stations, libraries, hospitals, water supply and distribution, sewerage and waste treatment, solid waste management, storm drainage, and flood plain management, utility corridors and associated facilities, and other similar facilities or uses.





2009 SWT Comprehensive Plan Goal Themes & Statements: Community Utilities

Municipal Infrastructure & Services

<u>Goal:</u>

Develop performance measures and benchmarks for all municipal services and utilities and expand or refine municipal functions to satisfactorily meet them as the Township grows.

Goal statements:

- 1. Continue to support volunteer fire/ambulance services vs. paid full-time services with Township funding and policy.
- 2. Continue to support Township policing efforts.
- 3. Develop and maintain consistency between land use and sewage systems/public water systems plans.
- 4. Match Infrastructure with affordability based on new zoning areas and anticipated tax revenues.
- 5. Consider alternative options for sewer treatment, particularly in the Jordan Valley.
- 6. Examine the feasibility of the Township's future sewage treatment capacity at the Allentown plant.
- 7. Examine tools to better protect water supply sources and recharge areas, including a wellhead protection ordinance and a riparian buffer ordinance.
- 8. Maximize use of the Township Municipal Authority.
- 9. Create and annually review a five-year Capital Improvements Plan that prioritizes capital projects and informs the yearly budget and work program prior to the budget each year.
- 10.Develop a goal-oriented, performance-based municipal services budget with Activity- Based Costing to replace the line item budget.
- 11. Consider employing user fees to a greater degree to support municipal services.
- 12. Explore cooperation with adjacent municipalities and the County for municipal services.
- 13. Ensure Township has adequate space for vehicles, equipment and personnel.
- 14. Clarify Township boundary confusion regarding municipal services, with neighboring municipalities.
- 15. Consider developing a landfill policy.



COMMUNITY UTILITIES WORKBOOK

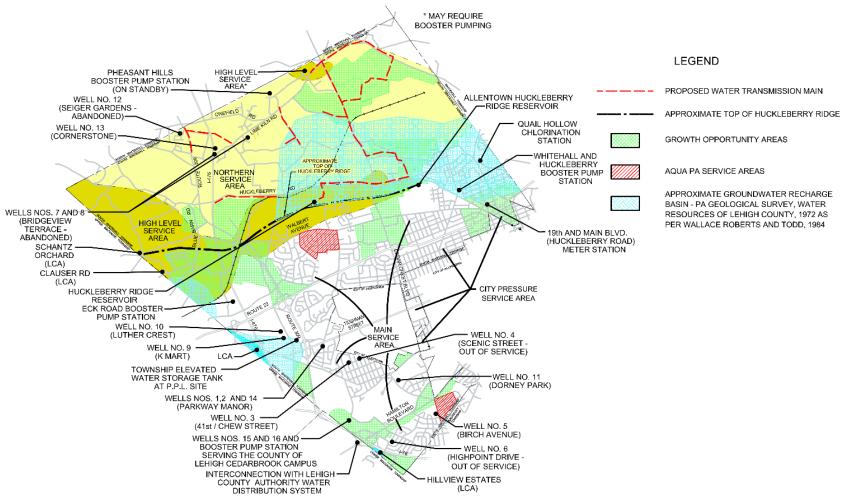
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Notes

PHASE 4 – COMMUNITY UTILITIES WORKBOOK

2009 SWT Comprehensive Plan: Sanitary Sewer System Map



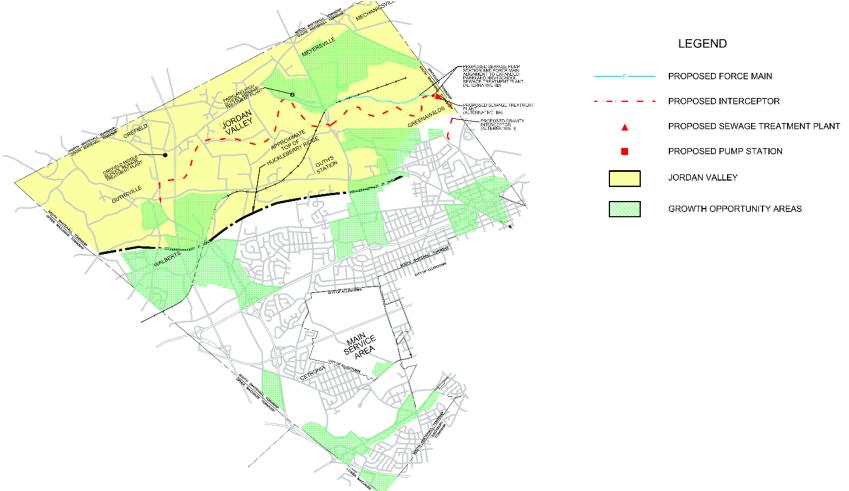
Michael Baker

COMMUNITY UTILITIES WORKBOOK



Notes

2009 SWT Comprehensive Plan: Water Distribution System







2009 SWT Comprehensive Plan: Community Utilities Recommendations

Recommendations for Utilities

- 1. Consider incorporating elements of the wellhead protection program prepared by the LVPC to increase protection of the water supply.
- 2. Consider groundwater recharge measures for new development and redevelopment proposed within the Groundwater Recharge Basins to preserve water supply.
- 3. Conduct fiscal impact studies of proposed alternatives for extending the sewer and public water systems.
- 4. Conduct an Act 537 Feasibility Study to determine the most feasible option for expanding sewer service in the Township and gain DEP approval of a revision to the Township's Act 537 Plan.
- 5. Incorporate planned and future utility extensions as part of a 5-year and 10year Capital Improvements Plan.
- 6. Extend sewer treatment capacity to new growth areas in pace with Township capability and the Capital Improvements Plan.



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2019 Existing Conditions Report: Stormwater

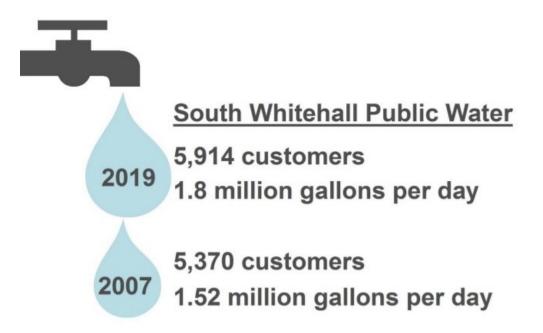
Notes







2019 Existing Conditions Report: Water and Sewer





COMMUNITY UTILITIES WORKBOOK





Notes

<u>Community Utilities Today:</u> <u>Phase 4 Kickoff Meeting March 31, 2021</u>

What is a word you would use to describe Community Utilities in South Whitehall Township today?



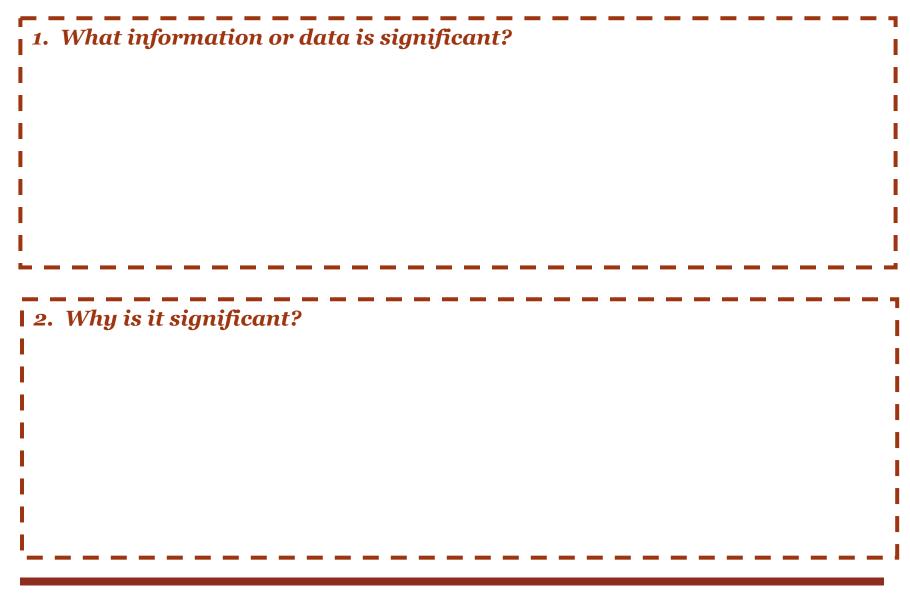
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Mentimeter



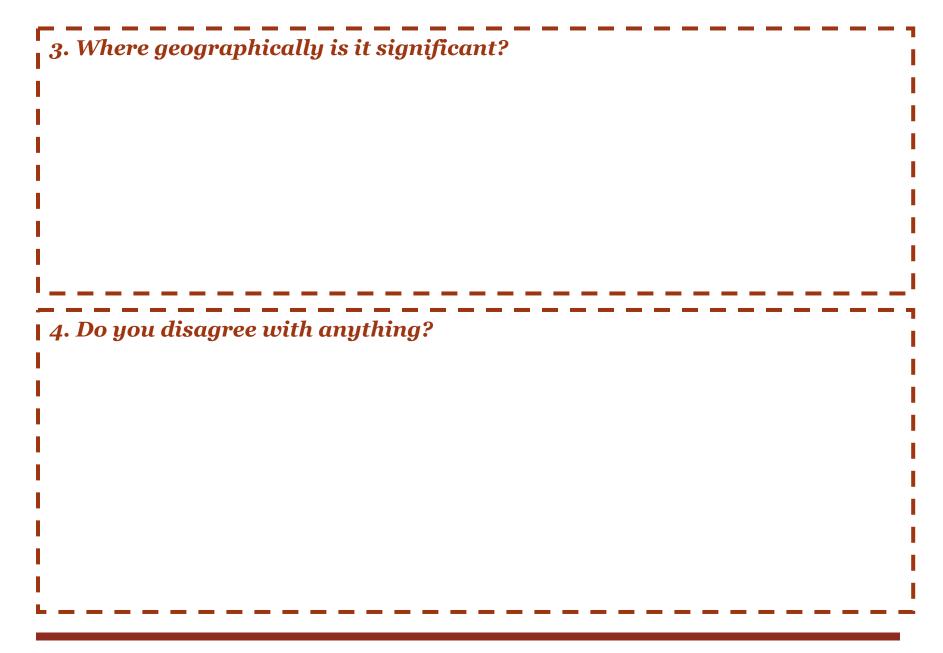


Discussion Template



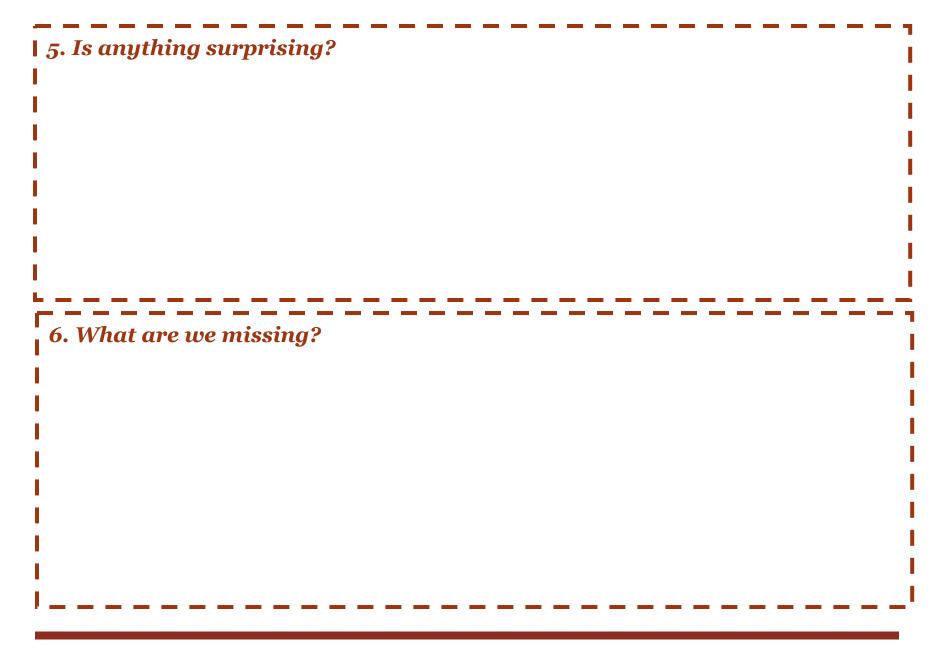






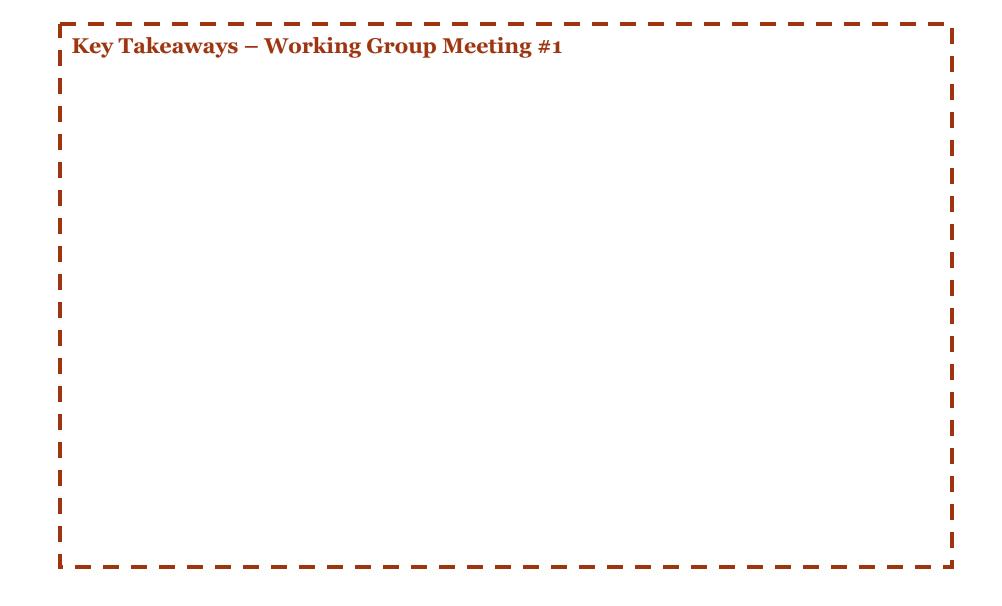












COMMUNITY UTILITIES WORKBOOK





Working Group Meeting #2: LVPC Subject Matter Experts

Subject Matter Experts (SMEs) from the Lehigh Valley Planning Commission (LVPC) will present relevant data, tools, and best practices to each working group. Participants will have a chance to discuss the ways to address problems in South Whitehall Township and move forward towards identifying recommendations with SMEs.

Goals

- Review and discuss SME sourced data
- Learn about tools and best practices
 - Identify initial recommendations

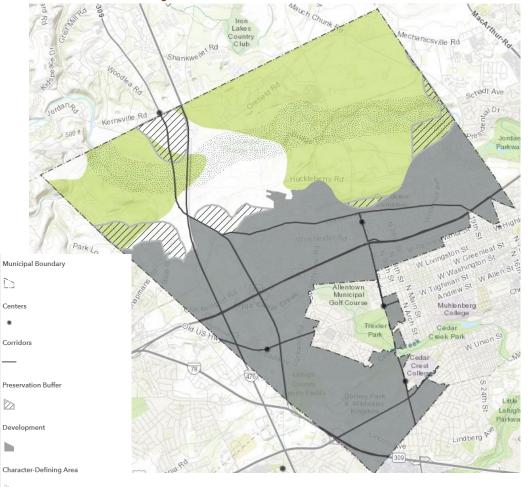
Outcome

Create a high-level list of initial recommendations that will be prioritized and built out at Working Group Meeting #3.





<u>FutureLV Data (LVPC):</u> <u>Community Utilities</u>



Centers

Centers are opportunities for mixed-use areas that are a focal point of social, cultural and economic activity. The goal for these areas is to offer a variety of housing prices and types close to shops, restaurants, and jobs. They should feature streets that encourage walking and biking – expanding safe transportation options within the community. Further, they should be well-connected to nature and surrounding neighborhoods, promoting an active lifestyle that is good for the social, physical and psychological well-being of all people.

Corridors

Corridors are opportunities for linear mixed-use districts that connect centers with high quality roads, trails and mass transit lines. Each corridor contains a variety of uses and development types that help to support a variety of transportation modes. Anchored by a Center on each end, Corridors unify residential neighborhoods to social, cultural and economic opportunities and make the Lehigh Valley a more livable, equitable and connected place.

Development

These areas have most or all of the factors needed to support growth, such as sewer and transportation infrastructure capacity and contiguity to existing development, and are capable of accommodating a substantial amount of additional development. These areas are appropriate for a variety of uses, including major commercial, residential and industrial development.

Access the LVPC FutureLV's Interactive General Land Use Map here: <u>https://tinyurl.com/y9a6xxvy</u>

COMMUNITY UTILITIES WORKBOOK



Farmland Preservation Areas



<u>Community Utilities Future:</u> <u>Phase 4 Kickoff Meeting March 31, 2021</u>

What is a word you would use to describe Community Utilities in South Whitehall Township over the next 10 years?

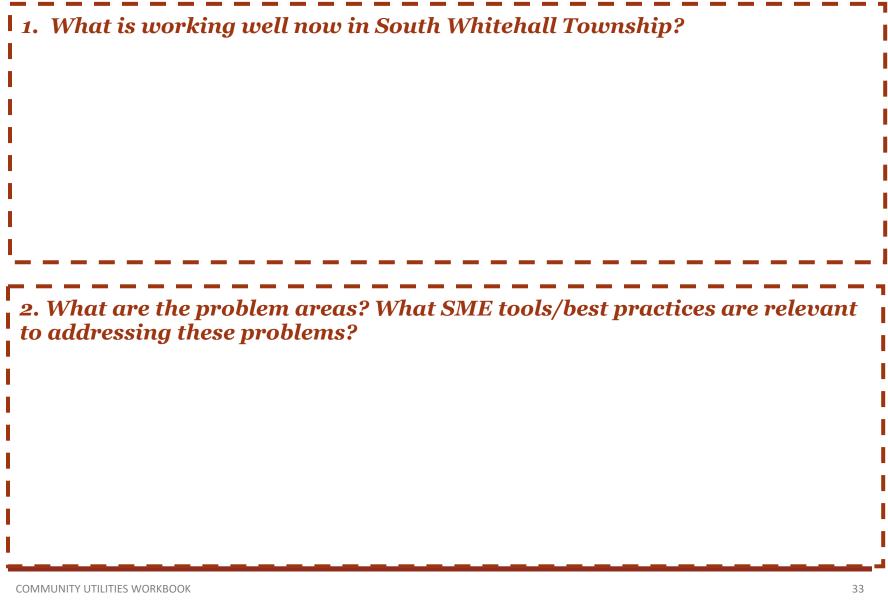


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Discussion Template





PHASE 4 – COMMUNITY UTILITIES WORKBOOK







<u>Working Group Meeting #3:</u> <u>Prioritize and Develop Recommendations</u>

Meeting #3 focuses on building out the recommendations identified in Meeting #2. Working Group members will prioritize their recommendations and develop recommendations utilizing the Recommendation Template.

Goals

- Prioritize and assess recommendations
- Build out Recommendation Templates
- Prepare to present Recommendations at the Concluding Working Group Meeting

Outcome

Prioritize recommendations and then identify key goals, key actions, leaders, partners, funding, and timeline. These recommendations will be presented to the South Whitehall Township Planning Commission at the Concluding Working Group Meeting, and will directly inform the Comprehensive Plan Update.





Prioritization Exercise

My Recommendation Prioritization	Final Working Group Recommendation Prioritization





Recommendation:	
Key Goals:	Key Actions:
Stakeholders	Funding Sources
Who Leads?	
Who Partners?	
Implementation Timeline (near-term, mid-term, or	long-term):
Measures of Success:	

COMMUNITY UTILITIES WORKBOOK





Recommendation:	
Key Goals:	Key Actions:
Stakeholders	Funding Sources
Who Leads?	
Who Partners?	
Implementation Timeline (near-term, mid-term, or	long-term):
Measures of Success:	

COMMUNITY UTILITIES WORKBOOK





Recommendation:	
Key Goals:	Key Actions:
Stakeholders	Funding Sources
Who Leads?	
Who Partners?	
who rarthers:	
Implementation Timeline (near-term, mid-term, or	long-term):
Measures of Success:	

COMMUNITY UTILITIES WORKBOOK





Recommendation:	
Key Goals:	Key Actions:
Stakeholders	Funding Sources
Who Leads?	
Who Partners?	
Implementation Timeline (near-term, mid-term, or	long-term):
Measures of Success:	

COMMUNITY UTILITIES WORKBOOK





Recommendation:	
Key Goals:	Key Actions:
Stakeholders	Funding Sources
Who Leads?	
Who Partners?	
Implementation Timeline (near-term, mid-term, or	long-term):
Measures of Success:	

COMMUNITY UTILITIES WORKBOOK





Recommendation:	
Key Goals:	Key Actions:
Stakeholders	Funding Sources
Who Leads?	
Who Partners?	
Implementation Timeline (near-term, mid-term, lo	ng-term):
Measures of Success:	

COMMUNITY UTILITIES WORKBOOK





Summary

Working Group Members:

Spokesperson/Presenter for Working Group Concluding Meeting:

Highest Priority Recommendation:

COMMUNITY UTILITIES WORKBOOK





Working Group Concluding Meeting

Each Phase 4 Working Group will present their recommendations to SWT staff and the Planning Commission to generate constructive feedback and discussion. The recommendations, feedback, and discussion will inform the drafting of the Comprehensive Plan Update.



Outcome

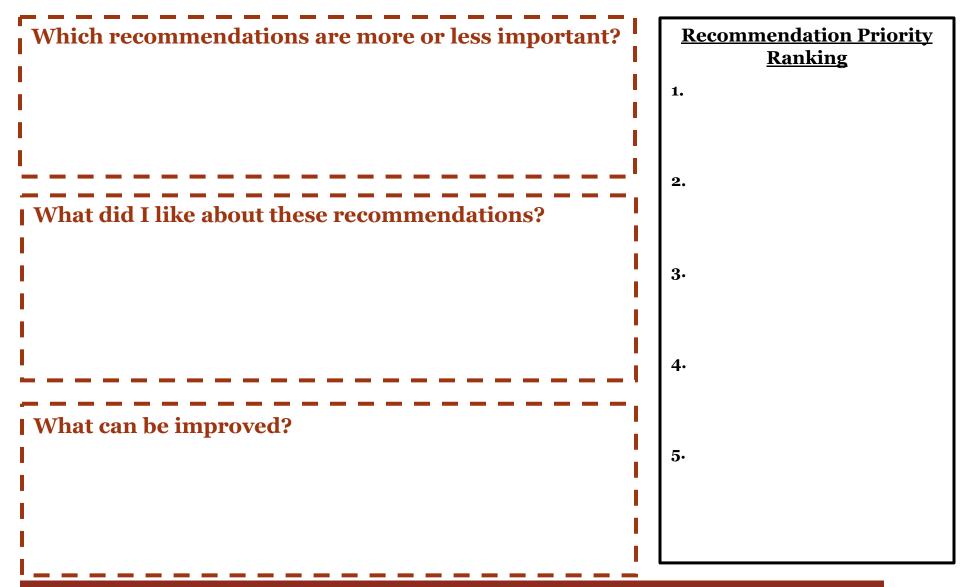
Phase 4 will conclude with presentations of Working Group recommendations to the Planning Commission, informing the Comprehensive Plan Update.

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COMMUNITY UTILITIES WORKBOOK

Michael Baker

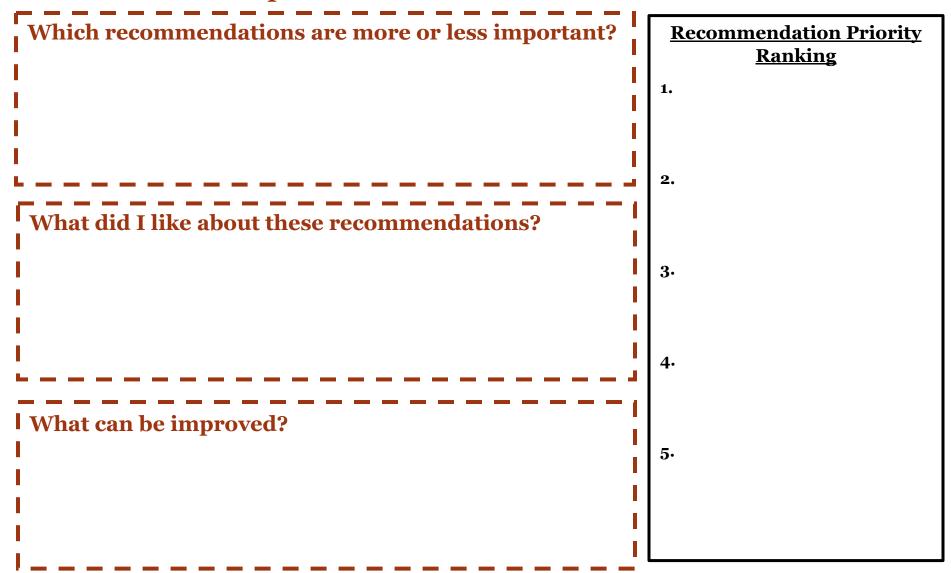
Housing Recommendations Notes







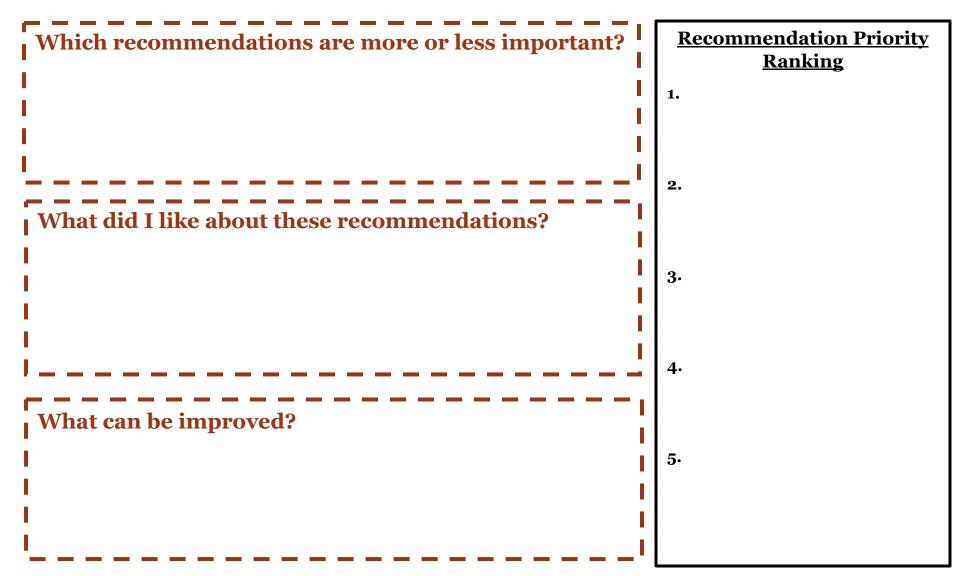
Transportation Recommendations Notes







Community Facilities Recommendations Notes

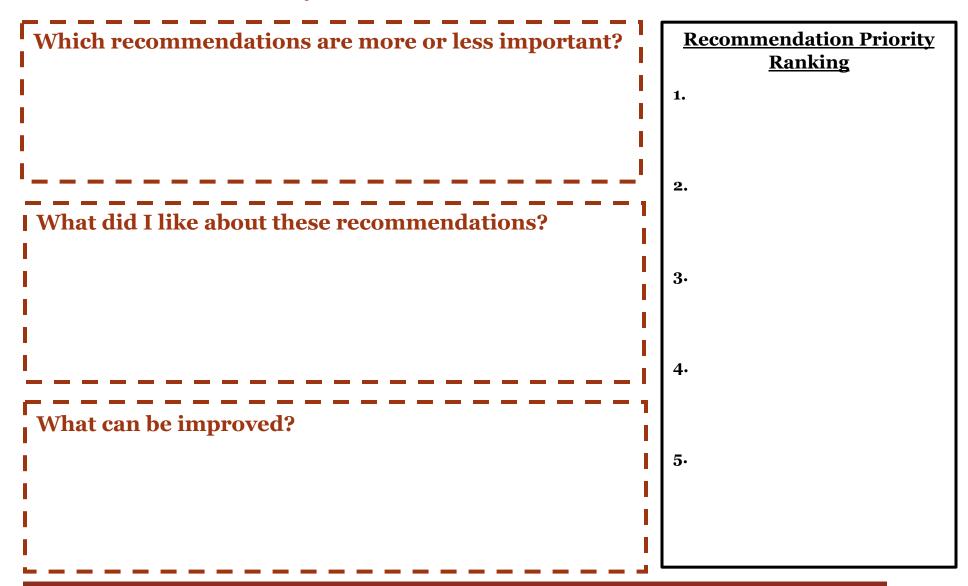


COMMUNITY UTILITIES WORKBOOK





Community Utilities Recommendations Notes







Resource Protection Recommendations Notes

