CFAC Policy Subcommittee March 9, 2012

- I. Welcome and Introductions
- II. CFAC Policy Subcommittee Updates and Announcement Items
- III. Lick Run Watershed Planning Principles Chris Manning
- IV. Special guest Jon Grosshans from USEPA Region 5,
 Sustainable Communities
- V. Lower Mill Creek Watershed Action Plan Jen Eismeier
- VI. Wrap Up Meeting Adjourned (3 PM)



CFAC Policy Subcommittee Updates and Announcement Items

- 1. Draft USEPA Integrated Watershed Policy Framework
- 2. Policy Gap Analysis: Major Findings

Corrective Action	Status
Stormwater Design Manual	Collaborative process initiated and underway
City Ordinance Revisions	Approved on March 28, 2012 at Livable Communities Council Meeting
City Ordinance Revisions & SMU Rules and Regulations	Approved on March 28, 2012 at Livable Communities Council Meeting
Land Development Code	 LDC underway, Lick Run as Guide for LDC and form based codes efforts
	Stormwater Design Manual City Ordinance Revisions City Ordinance Revisions & SMU Rules and Regulations

LICK RUN WATERSHED Urban Design MASTER PLAN

Landscape Architecture & Environmental Planning



Chris Manning

Lick Run Watershed Multidisciplinary Design Team

Planning



alaserworks

Civil Engineering



Foundations for Complementary Efforts

Historical & Cultural Resources

March 9, 2012

Architectural Design







Watershed-Based Planning Approach

COMMUNITY OPEN HOUSE

January 2011



August 2011 **Visual Preference Survey**



October 2011

Strengths & Weaknesses

of Alternatives & Concepts



February 2012

Identify Gaps &

Refinements



March 2012 Lick Run Alternative Project

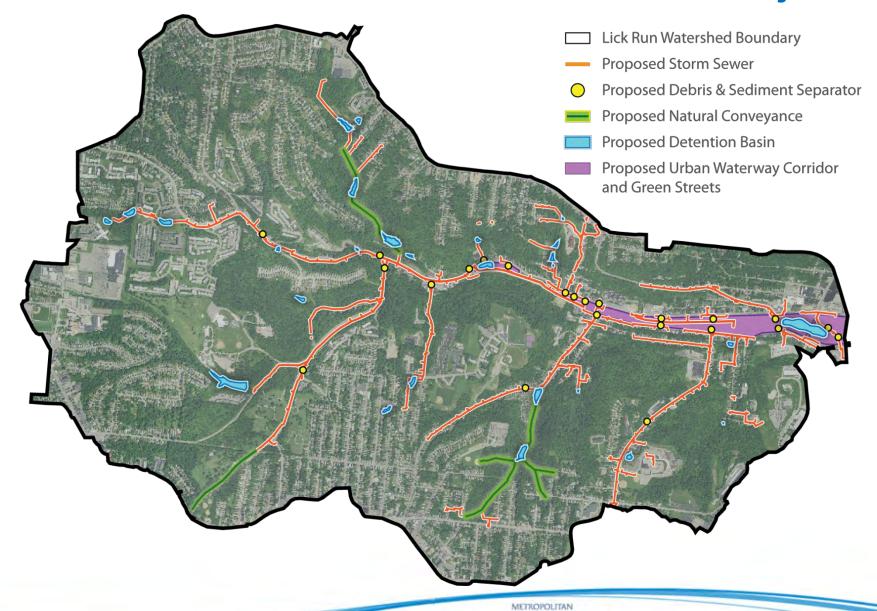








Alternative Solutions: Lick Run Alternative Project

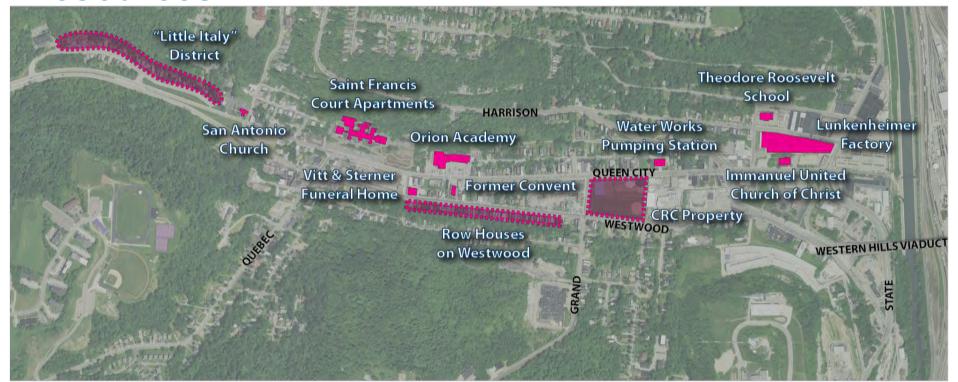


South Fairmount: Existing Conditions



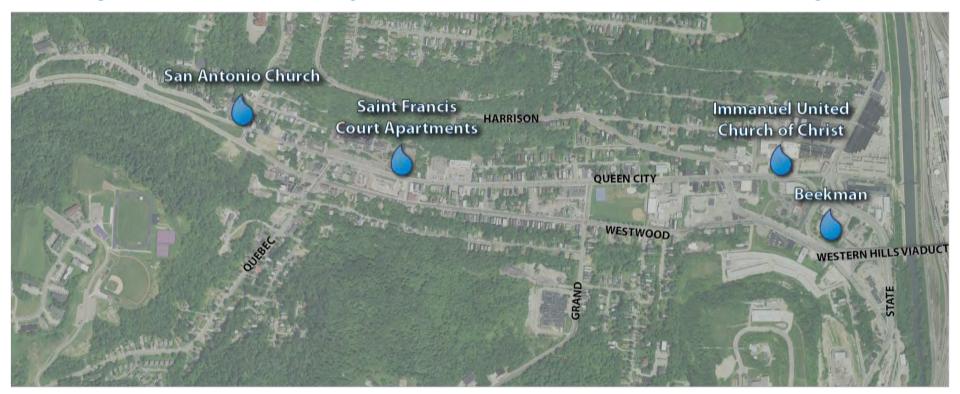


Community-Identified Cultural & Historical Resources





Early Success Projects / Enabled Impact Projects





Preliminary Urban Waterway Concept



The Base Project



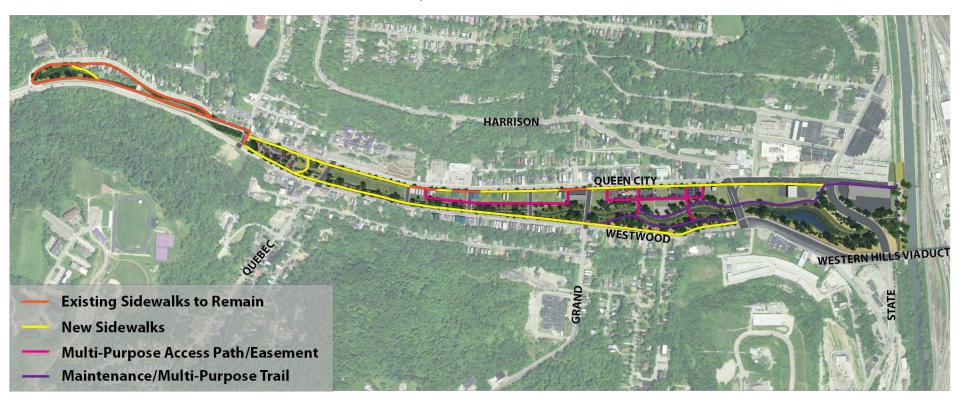
Urban Waterway Alignment & Water Quality Features



The Base Project



Maintenance Access, Sidewalks & Trails



The Base Project



Content in the Master Plan Submittal





Coordinate policies and leverage investment.

Promote an integrated network of green infrastructure.

Revitalize the economy through creation of jobs and growth opportunities for local businesses.

Support existing communities.

Benefit the watershed communities through environmentally, socially, and economically sustainable solutions.

Provide more transportation choices.

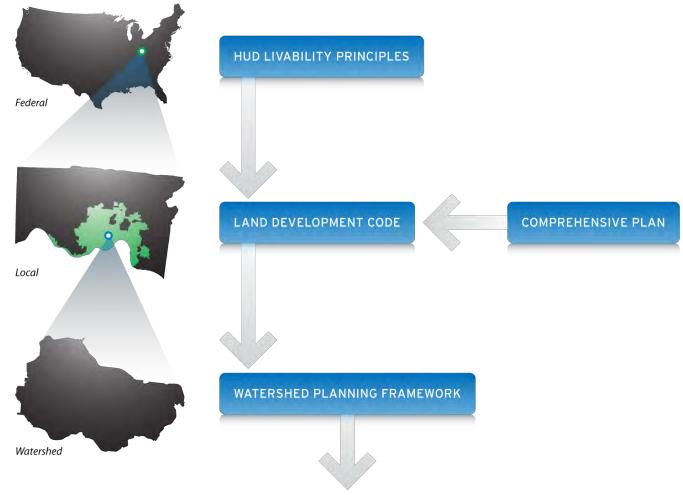
Promote a balanced mixed-use neighborhood.

Use quality design to create an attractive public/private realm.

Guiding principles based on:

- Feedback from Community Design Workshops
- CFAC Input
- Project Groundwork community benefits
- HUD Livability Principles





FUTURE PLANNING EFFORTS

FORM-BASED CODES

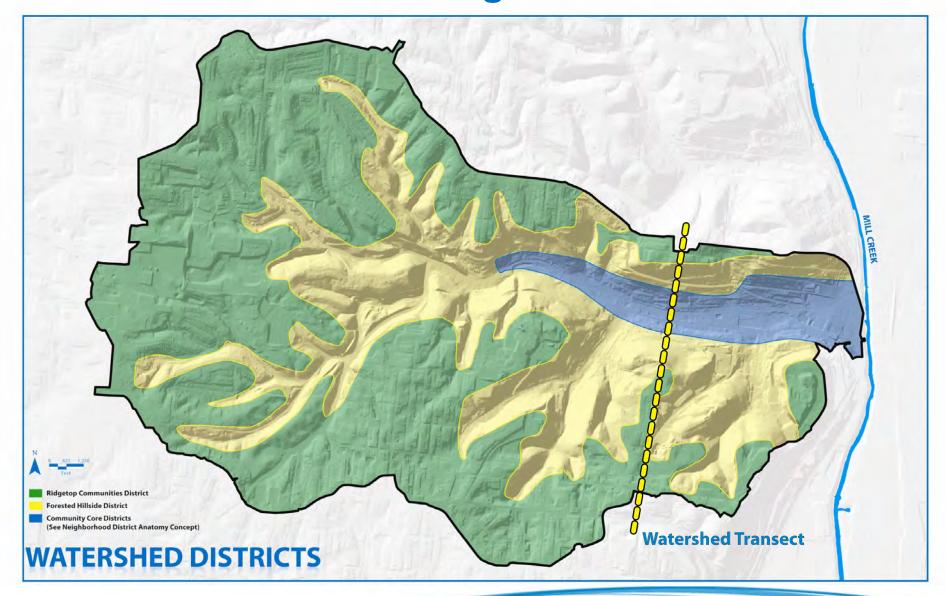
WATERSHED ZONING

DESIGN GUIDELINES

STORMWATER POLICY

MARKET ANALYSIS







RIDGETOP COMMUNITIES **FORESTED HILLSIDES COMMUNITY CORE OPEN SPACE CORRIDOR Existing fabric Natural qualities Parking Water quality Improved connectivity Open gathering spaces** Traditional and modern **Active recreation facilities** architecture Civic spaces Vibrant live/work zone **Environmentally-sensitive** development Forested hillsides **Environmentally-sensitive** Alternative transportation development **Minimized impacts** Biking and walking paths **Alternative transportation Existing fabric**

RIDGETOP COMMUNITIES

FORESTED HILLSIDES

COMMUNITY CORE

Future revitalization efforts will build upon the **existing neighborhood fabric**.

Parking in the business district will be provided by a balanced mix of on-street and surface lots integrated between buildings.

Future development will incorporate traditional and modern architectural forms.

The business district should represent a **vibrant live/work zone**, including basic services and reusing existing buildings where possible.

Places will be connected to improve the function of the street network and create opportunities for alternative transportation.

Environmentally-sensitive development will be used in future projects.

OPEN SPACE CORRIDOR

The proposed urban waterway will retain **natural qualities** while complementing the surrounding urban context.

Green infrastructure features (e.g., rain garden, bioswale, trees) will be integrated throughout the proposed urban waterway corridor to improve water quality.

Open gathering spaces will allow for passive recreation and for community events.

Active recreation facilities will emphasize bike and pedestrian trails.

Civic spaces will focus on small, green areas for personal interaction, but also include common areas for community events.

Environmentally-sensitive development will be used in future projects.

Bike and walking paths will be encouraged for new development and areas undergoing redevelopment.

Places will be connected to improve the function of the street network and create opportunities for **alternative transportation** (e.g., walking, biking, and accessing public transit).

Future revitalization efforts will build upon the **existing neighborhood fabric**.

The watershed's **forested hillsides** will be preserved and responsibly managed.

New construction will **minimize impacts** on the natural environment.







Application of the watershed transect to sustainable systems

- Alternative energy
- Stormwater management features
- Land use
- Building codes



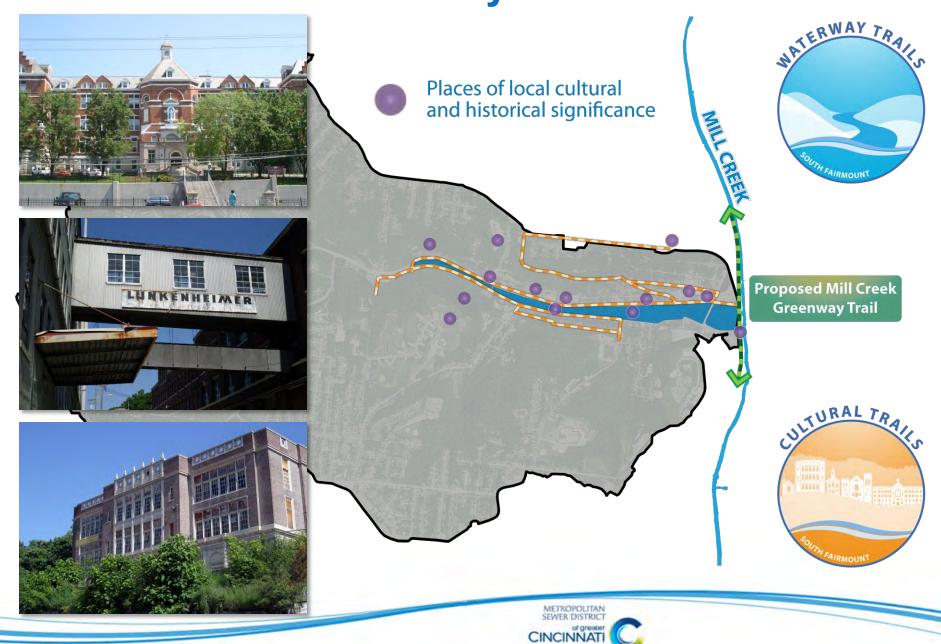




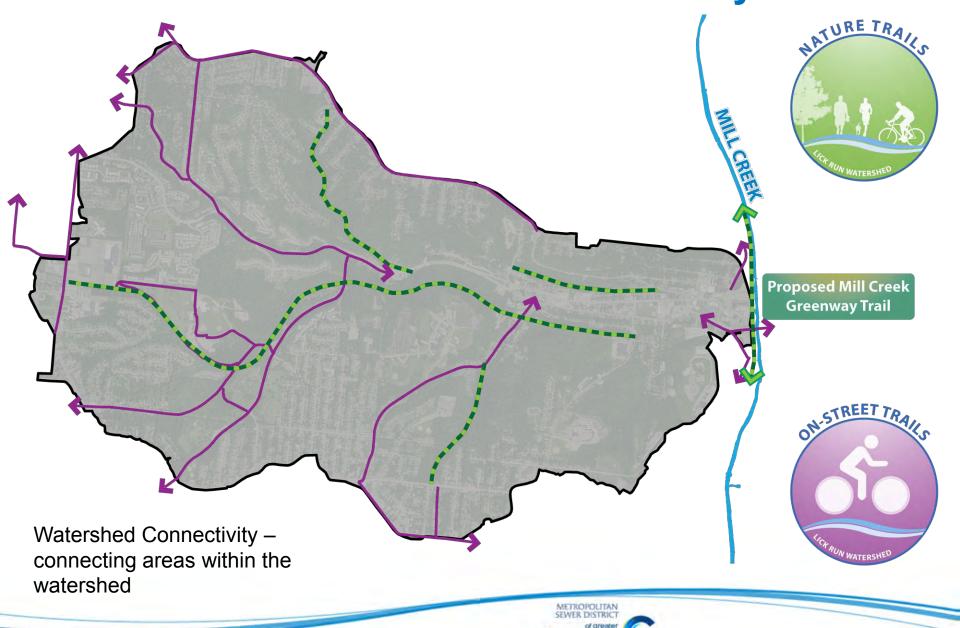




Trail Network: Community Core



Trail Network: Watershed Connectivity



NETWORK OF CSO REDUCTION SOLUTIONS



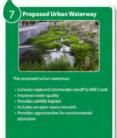














San Antonio Church Enabled Impact Project

MSD's Proposed Solutions in the Lick Run Watershed



Lick Run Watershed: Stormwater Flow Diagram





Transportation Planning







NEAR-TERM COMPONENTS

COMMUNITY PREFERENCE

One-way Traffic
3 Wider Lanes
Pedestrian Safety Improvements
Integrated Stormwater Planters



2



LONG-TERM OPPORTUNITIES

RECOMMENDATIONS
Further Technical Refinement
Agency Coordination
Community Engagement



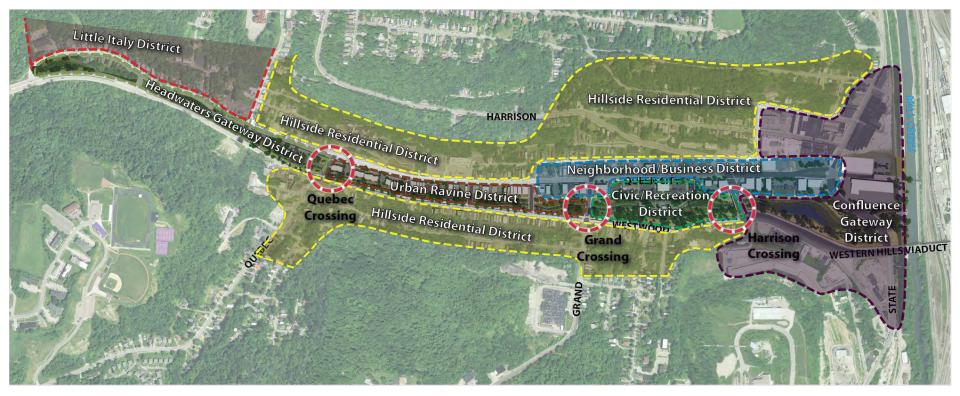
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Preliminary Long-Term Vision Plan





Proposed urban design guidelines are based on:

- Physical characteristics (e.g., sewer infrastructure, setbacks, roadways)
- Community preferences for scale, styles and land uses
- Integrated network of stormwater BMPs
- Enhanced internal and external connectivity





LICK RUN WATERSHED

URBAN DESIGN PRINCIPLES

General:

Pedestrian Shed - 1300' radius (comfortable 5 minute walk)
Ultimately, Queen City conversion back to two-way street
Cross streets / block lengths preferred to be 300'; maximum 400' - except at Recreation

Queen City Business District - Urban Center Zone

- Pedestrian-oriented, mixed use character
- Cross streets at 300' preferred, 400' maximum (measured along ROW line)
- 2:1 street corridor proportion (street corridor width to building height)
- · Minimum 2 story buildings
- . 10' lane width; 20 mph maximum speed
- Bicycle "Sharrows" at right travel lanes
- · Metered, on-street, parallel parking; 8' width no rush hour removal
- 5' collector strip of colored or textured paving with regularly spaced frees in wells with grates
- 7" "Bump-outs" at cross streets; 10" wide "Tebra-striped" cross walks at all intersections
- 6' to 10' sidewalks
- Commercial (retail, entertainment & professional service) uses on first story with nostep primary entries
- Commercial, office, educational, institutional and residential uses allowed on upper stories
- Front Setback: 0' for 80% of frontage; 10' maximum for 20% frontage
- Required storefront glass of 70% along Queen City Avenue and 50% for first 30° of cross streets
- · Primary front entries along Queen City required except at designated cross streets
- Shared parking allowed; no surface parking lots permitted

Confluence Business District - Drivable Zone (except at Queen City NBD)

- · Commercial / vehicular-dominant character
- No cross street / block length maximum
- 11' lane width preferred; 35 mph maximum speed
- Bicycle "Sharrows" at right Iravel lanes

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- Metered, on-street, parallel parking; 8' width
- New, squared and signalized intersection at Harrison & Western Hills Viaduct
- 8' "Bump-outs" and 10' wide "Zebra-striped" cross walk at signaled intersection
- 8' collector strip with regularly spaced trees in wells with grates or grass
- 5' minimum sidewalk width
- Commercial (retail, entertainment & professional service), office, educational, institutional and limited manufacturing uses
- Front Setback: 0' allowed, 12' maximum; no surface parking allowed in front of buildings

Recreation District - General Urban Zone

- Pedestrian-oriented, mixed use character along Queen City Avenue
- Commercial / vehicular-dominant character along Westwood Avenue
- All buildings to have primary facades facing recreation block
- All four corner intersections, and Grand & Westwood intersection, signalized

Queen City, Grand and Harrison Avenues:

- · "Fabric" building retention preferred
- Minimum 2 story buildings
- 10' lane width; 25 mph maximum speed
- Bicycle "Sharrows" at right travel lanes
- . Metered, on-street, parallel parking; 8' width no rush hour removal
- · 5' grass strip with regularly spaced trees or, paved strip with trees in wells with grates
- 7" "Bump-outs" at intersections: 10' wide "Zebra-striped"
- 6' to 10' sidewalks
- Commercial (retail, entertainment & professional service) uses on first story at corner buildings at both main intersections; required storefront glass of 70%
- Commercial, office, educational, institutional and residential uses allowed all other areas
- Front Setback: 0' for 80% of frontage; 10' maximum for 20% frontage
- Primary front entries to street required
- · Shared parking allowed

Westwood Avenue:

- "Fabric" building retention preferred
- 11' lane width preferred; 35 mph maximum speed
- Bicycle "Sharrows" at right travel lanes
- Un-metered, on-street, parallel parking; 8' width

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- · New, squared and signalized intersection at Harrison Ave. & Westwood Ave.
- 8' "Bump-outs" and 10' wide "Zebra-striped" cross walk at all three signalized intersections
- · 8' grass strip with regularly spaced street trees
- · 5' minimum sidewalk width
- Commercial (retail, entertainment & professional service), office, educational, institutional and residential uses allowed
- Front Setback: 0' allowed, 12' maximum; no surface parking allowed in front of buildings

Ravine Activity Sub-District - Urban Center Zone

- · Pedestrian-oriented, mixed use character
- · "Fabric" building retention preferred along north side of Queen City Avenue
- Cross streets at 300' preferred, 400' maximum (measured along ROW line)
- 2:1 street corridor proportion (street corridor width to building height)
- Minimum 2 story buildings
- · 10' lane width: 25 mph maximum speed
- · Bicycle "Sharrows" at right travel lanes
- · Metered, on-street, parallel parking; 8' width no rush hour removal
- 5' collector strip of colored or textured paving with regularly spaced trees in wells with grates or grass
- 7' "Bump-outs" at cross streets; 10' wide "Zebra-striped" cross walks at all intersections
- 6' to 10' sidewalks
- Commercial (retail, entertainment & professional service) office, educational, institutional and residential uses allowed throughout
- · Front Setback: 0' minimum: 12' maximum
- · Primary front entries along Queen City required
- Shared parking allowed; no surface parking lots permitted tronting streets

Ravine District - General Urban Zone (except at Ravine Activity Sub-District)

- Pedestrian-oriented, mixed use character along Queen City Avenue
- . Commercial / vehicular-dominant character along Westwood Avenue
- Signalized intersections at Quebec and 2 intermediate cross streets along Queen City
- Signalized intersections at Quebec and I intermediate cross streets along Westwood Avenue

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Queen City Avenue and cross streets:

- "Fabric" building retention preferred along north side of Queen City and across from Orion Academy
- · Pedestrian-oriented, primarily residential character
- Cross streets at 300' preferred, 400' maximum (measured along ROW line) except narrow, rowhouse block east of Quebec
- · 2:1 street corridor proportion (street corridor width to building height)
- · Minimum 2 story buildings
- 10' lane width; 25 mph maximum speed
- Bicycle "Sharrows" at right travel lanes
- Metered, on-street, parallel parking; 8' width no rush hour removal
- · 6' grass strip with regularly spaced trees
- 7' "Bump-outs" at cross streets; 10' wide "Zebra-striped" cross walks at all intersections
- 6' to 10' sidewalks
- Commercial (retail, entertainment & professional service) uses allowed on first story at corner buildings
- Commercial, office, educational, institutional and residential uses allowed throughout
- Front Setback: 0' to 12' maximum except where impractical due to existing underground utilities
- Primary front entries along Queen City Avenue required
- Shared parking allowed; no surface parking lots permitted fronting Queen City Avenue

Westwood Avenue:

- "Fabric" building retention preferred along south side of Westwood Avenue
- · 11' lane width preferred; 35 mph maximum speed
- Bicycle "Sharrows" at right travel lanes
- Un-metered on-street, parallel parking: 8' width
- . New, squared and signalized intersection at Harrison Ave. & Westwood Ave.
- 8' "Bump-outs" and 10' wide "Zebra-striped" cross walk at all three signalized intersections
- 8' grass strip with regularly spaced street trees
- 5' minimum sidewalk width
- Commercial (retail, entertainment & professional service), office, educational, institutional and residential uses allowed

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USEPA Sustainable Communities, Region 5

JON GROSSHANS, USEPA



Lick Run Watershed Partnerships

- HUD-DOT-EPA Partnership
 - EPA sponsored "Road map" for partner efforts
 - Encourages foundation involvement
- Lick Run Watershed
 - Water quality improvements mandated
 - South Fairmount community –Reinvestment
- Foundation Involvement
 - Knowledge sharing
 - Capacity building
 - Planning and Community Development







Foundation Involvement - Examples

- Toledo, OH JEEP site redevelopment
 - Toledo Community Foundation
- Flint, MI Auto sector site redevelopment
 - Redevelopment planning for ten sites
- Detroit, MI Auto sector site redevelopment
- Philadelphia, PA Green infrastructure financing
 - NRDC Report
- Chicago, IL Regional planning implementation
 - Foundations as project partners
 - Continually challenging each other to step up
 - Planning and staff support



Beyond Water Quality What's the Community Value?

Economic, Societal, Environmental

- Provide open recreational space
- Revive investments in declining housing stock
- Create more walkable and bikeable neighborhood
- Reduces supply of vacant land
- Bolster image of city, improving urban aesthetics
- Create value for adjacent property, increase property taxes
- Reduce the urban heat island effect
- Facilitate job creation
- Facilitate regionalism and smart growth
- Cleanup, control, or contain legacy contamination
- Address EJ concerns

Foundation Involvement

Cincinnati – one of many CSO communities

Knowledge transfer between cities and regions

Replicable

Building Capacity

Community Process

Co-benefits

Planning and Community Development

Capacity Building

Participation and Partnership

Knowledge Sharing



Window of Opportunity

- Cincinnati foundations part of working group
- Partners in state and federal grant applications
- Local capacity building needed
 - Community Council
 - No CDC coverage
 - Local business communication
 - Lacks institutions



Community Development & Planning

- Sewer districts must improve water quality...
- However, the community co-benefits need plans too:
 - Open space and trail opportunities
 - Location, Design, Access, Maintenance
 - Walking and biking improvements
 - Very auto-oriented development patterns
 - Active community engagement
 - Transit access to jobs
- Project can yield new housing investment and economic development, but only if there is advance planning
- Foundations can assist in filling this planning gap



Next Steps

- New partners Opportunities??
 - Foundations
 - Universities
 - Nonprofits
 - Other PrivateSources
- National Foundation's Roundtable





Watershed Action Plan

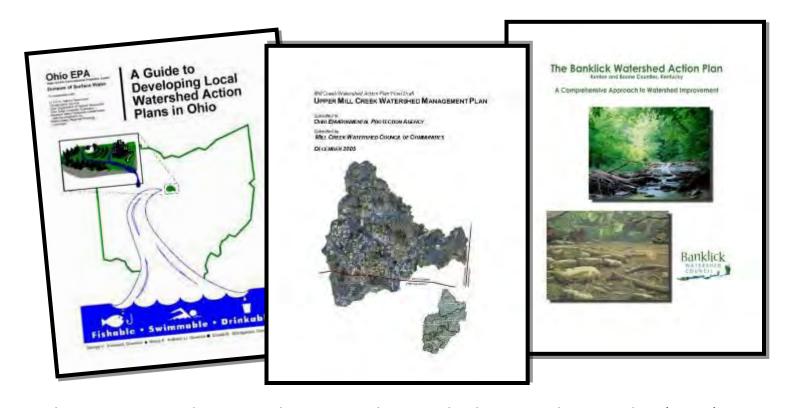
JEN EISMEIER ROBIN CAROTHERS



Lower Mill Creek Watershed Action Plan



LMC-WAP Local Guides and Examples



- Ohio EPA A Guide to Developing Local Watershed Action Plans in Ohio (1997)
- Upper Mill Creek Watershed Management Plan (2005)
- The Banklick Watershed Action Plan (Kenton and Boone County) (2005)
- And more...



LMC-WAP Process

WAP Plan Initiation Partners

- Mill Creek Watershed Council of Communities
- Mill Creek Restoration Project
- Cincinnati Parks
- Cincinnati Dept. of Planning and Buildings
- OKI Regional Council of Governments
- Hamilton County Planning and Development
- Hamilton County Soil and Water
 Conservation District
- MSDGC



Why LMC-WAP?

- Complements many existing efforts
- Information needs to be compiled
- MSD has completed considerable data and analysis through watershed-based CSO reduction solutions
- Funding opportunities/doors can be opened by having a completed WAP



MSD Mill Creek Watershed Bioassessment 2011



MILL CREEK WATERSHED WATER QUALITY

In 2011, MSD engaged the Midwest Biodiversity Institute (MBI) to assist with developing a comprehensive plan for monitoring and evaluating water quality and aquatic habitat. The plan includes the Mill Creek, Little Miami River, Muddy Creek, Great Miami River and several other tributaries watersheds of the Ohio River. In 2011, MSD and MBI were efforts in the Mill Creek Watershed.

Watershed Bioassessment

- A phased comprehensive watershed-based monitoring and biological assessment of waterways to help identify and prioritize where MSD and other stakeholders should focus capital improvements based on public health and water quality needs.
- Multi-step process that includes plan design, sampling and analysis, and assessment of the overall health of the aquatic system

Goals

- Establish a baseline for water quality (chemical indicators), aquatic habitat (physical indicators), and biological conditions (e.g., fish and macroinvertebrates)
- · Identify stressors to water quality and aquatic habitat
- · Identify the overall health of the aquatic system

Outcome

 An Integrated Priority System (IPS) to help prioritize water quality and public health solutions for the waterways.





Approximately 100 sites sampled; sites identified by geometric sampling design





Sampling in the Kings Run Watershed

Site MC97

· Mill Creek tributary in upper part of the Ludlow Run sub-watershed

Class III Primary HeadWater Habitat (PHWH):

- · Drainage area of 0.84 square miles
- · Intermittent flows, water present during summer
- Conducted a PHWH assessment
- · Aquatic life occurs year round

Sampling Results:

- · 3 salamander species & aquatic invertebrates
- QHEI score = 61 (Good)
- HHEI score = 71 (Very Good)

Water Quality Summary:

- Total suspended solids, total phosphorous, and conductivity exceeded regional reference thresholds
- Other parameters were within "expected" concentrations
- · Typical urban stream results
- Water chemistry data suggests urban runoff impacts
- Threats to primary headwaters usually include culverting, filling, and water quality impacts from runoff and wet weather discharges

Site MC68

· Mill Creek tributary located in lower part of the Ludlow Run sub-watershed

Class I Primary HeadWater Habitat (PHWH):

- Drainage area of 0.20 square miles
- · Ephemeral flows, dry during summer
- · Aquatic life occurs seasonally & is comprised of temporal taxa no fish or amphibians.
- These streams still serve an important function in a watershed by filtering and sequestering pollutants and sediment.
- Threats to these primary headwaters usually include culverting and filling.



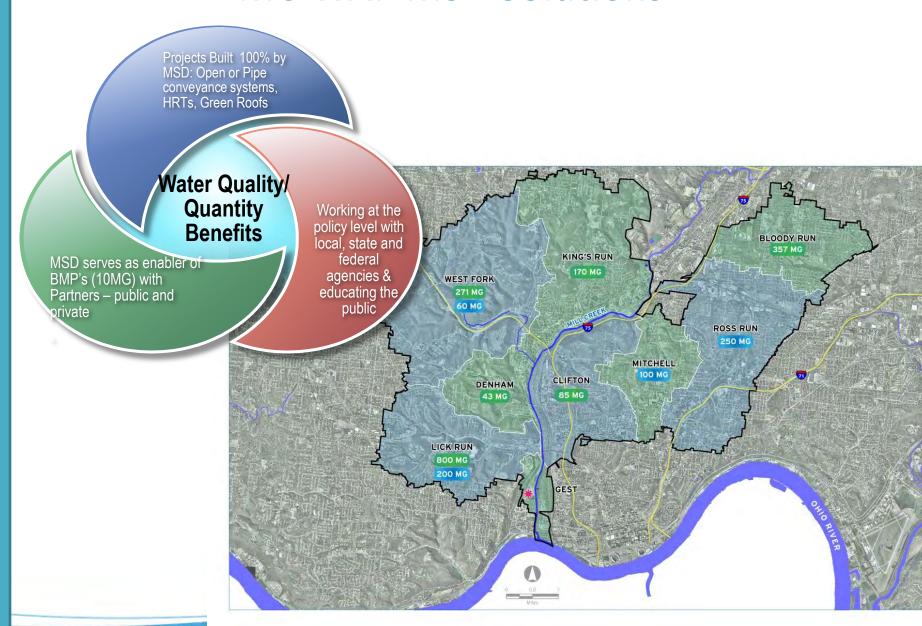








LMC-WAP MSD Solutions



LMC-WAP and **CFAC**

How can CFAC help?

Help to advance & complete the

WAP

Join the work group

- Help get the word out to community councils and watershed stakeholders
- Celebrate the Mill
 Creek as an asset
 to our region
- Consider potential local WRRSP projects for Consideration once WAP is complete Mill Creek Yacht Club paddlers at the Western Hills Viaduct





OTHER ISSUES/DISSCUSSION

