



DUPAGECOUNTY

STORMWATER MANAGEMENT

Public Grant Funding

Plans, Projects & More in DuPage County



Love Blue. Live Green.





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STORMWATER MANAGEMENT



Background

Stormwater Management in DuPage County

Who Are We?



Stormwater Management in DuPage

- Countywide program established in 1989
- Guided by the Stormwater Management Planning Committee & Plan
- Enforce the Countywide Stormwater Management & Floodplain Ordinance
- Flood Control Facilities have a floodwater capacity of nearly 6 billion gallons

Programs

- Watershed Management
- Water Quality
- Floodplain Mapping
- Regulatory Services
- Flood Control Operations & Maintenance
- Shared Services

Program Funding



Budget

- In a “Maintenance Budget”
- Stormwater Management Generate \$9.4 million in Tax Levy
- Supplemented by \$3 Million from General Fund
- Budget Includes ~\$7.36 Million in Annual Bond Repayments

Outside Funding Sources

- Federal & State Grants
- County-Issued Bonds

Supplementing with Grants



Overview

- Budget Supplemented by Federal & State Grants (i.e. FEMA, EPA, USACOE, HUD & State Equivalents)
- Often Include Cost Share from Budget
- Watershed Plans Help with Eligibility
- “Shovel-Ready” Projects are Preferred
- Stormwater Management Secured ~\$83 Million in Grants

Where Are Grants Used?

- Regional Flood Control Facilities
- Regional Flood Control & Water Quality Projects
- Voluntary Flood-Prone Buyouts
- Floodplain Mapping
- Water Quality Watershed Planning



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Grants

Sourcing, Applying & Spending

How do you find grants?



Common Grant Announcement Outlets

- Watershed Plans
- Agency Websites (IEPA, USEPA, FEMA)
- Grants.gov
- Newsletters
- Emails
- ListSers
- Post-Disaster

Grants in DuPage



Past Granting Agencies

- Environmental Protection Agency
- Federal Emergency Management Agency
- U.S. Department of Housing and Urban Development
- National Oceanic and Atmospheric Administration
- Illinois Department of Natural Resources
- Natural Resource Conservation Service
- & More!

Funding Partnerships

- U.S. Army Corps of Engineers
- U.S. Geological Service



Grant Programs

- 319 for impaired waterways
- 604b for watershed planning



Reactive Grant Program

- Hazard Mitigation Grant Program: post-disaster declaration

Proactive Grant Programs

- Flood Mitigation Assistance Grant Program: eliminate or reduce claims under the National Flood Insurance Program (NFIP)
- Pre-Disaster Mitigation Grant Program: reduce risk to population from future events while reducing reliance on Federal funding for future disasters

HUD



Community Development Block Grant – Disaster Recovery

- Rare allocation of funding

Applying for Grants



Project Requirements

- Proposed activity must match agency requirements exactly
- Similar grants may have different focus points (Low-Mod/SRL, etc.)

Tips

- Don't reinvent the wheel
- Use same conceptual designs, narratives, exhibits
- Update layout, grant specific sections, forms

Applying for Grants



Best Practices

- Attention to detail
- Answer the questions outlined in the application packet
- Use language appropriate to the grant

Project Alternatives

- Have alternatives approved by funding agency with original application (alternative buyouts, project options, etc.)

Spending the \$\$



Construction Projects

- Contractor Payments

Watershed Plans

- Staff time sheets
- Quarterly reports
- Final report and approval



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DuPage Projects

Water Quality & Flood Control

DuPage uses grants for...



Planning

- Watershed Plans (Flood Control & Water Quality)
- Floodplain Mapping

Construction

- Flood-Prone Property Buyouts
- Flood Control Projects
- Water Quality Projects

Planning

319 Watershed Plans

Illinois EPA

- Planning or Plan Implementation

604b Watershed Plans

Illinois EPA

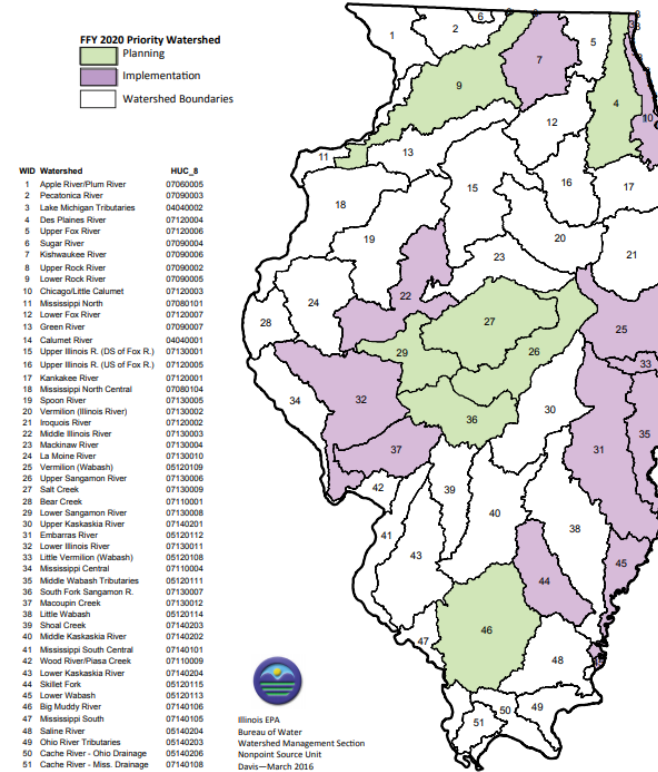
- Watershed Planning

Feasibility Studies

U.S. Army Corps of Engineers

- Flood Control Study

NPS Activities and Section 319 Funding Priorities—FFY 2020
Application Deadline—August 1, 2019



Mapping



Floodplain Mapping

- Received \$2.3 million from FEMA
- Remapped 26 watersheds
- Will go into effect in August 2019

USEPA Wetland Program Development

Wetland Mapping Initiative 2012

- \$115,000
- Staff time & Contractor

Flood-Prone Property Buyouts



Process

- Properties Identified in Watershed Plans, Floodplain Maps, By Request or from Funding Agency
- Must Deal Directly with Homeowner
- Pre-Flood Value Usually Offered
- Once Purchased, Put Bid Out for Demo
- Funding Agency Determines Future Use of Property

Potential Future Uses

- Open Space
- Wetland
- Flood Control
- Park
- Police/Fire Training Prior to Demolition

Flood Control Projects



Overview

- Regional Projects Identified in Watershed Plans
- “Shovel-Ready” or Even Underway
- Flood Control Projects, Including Reservoirs, Berms and Pump Stations
- Green Infrastructure, Including Bioretention

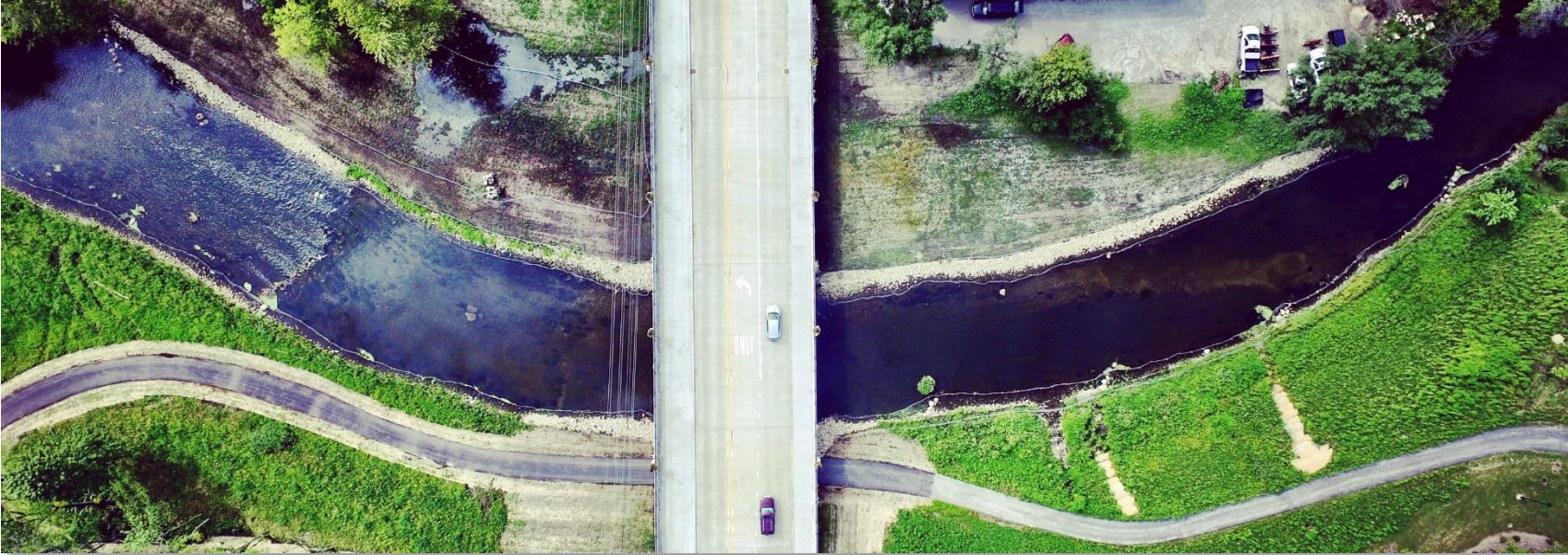
Things to Consider

- Projects Need to Benefit People Served by Grant (i.e. HUD)
- Funding Needs to be Spent in Expedited Time Frame
- Funding Agencies Want to See Work Underway and Completed

Armstrong Park Reservoirs



West Branch Flood Control



Water Quality Projects



West Branch River Corridor Improvements

NOAA

- \$10 million for environmental projects
- Warrenville Grove Dam Modification
- Urban Stream Research Center
- Vernal Pools
- Deep Over-Wintering Pool

NRCS

- \$1.6 million
- McDowell Grove Dam Modification

Success: West Branch Delisted for Aesthetic Quality by IEPA in 2016



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Awarding Grants

From Grantee to Grantor

Sharing the Wealth



Sharing Grant Funding

Sometimes an agency can't spend all on it's own or it has some to spare

- CDBG-DR
- Water Quality Improvement Grant Program



Municipal Match

- Using Grant Funds, County Assisting Municipalities with Projects
- Municipalities Apply to Receive Funds
- Administered by Community Development
- Alleviates County Burden in Recovering from April 2013

Projects

- Flood Control Projects
- Green Infrastructure Projects
- Flood-Prone Buyouts

Water Quality Grant Program



DuPage County Water Quality Improvement Program (WQIP) Grant

- Projects that provide a water quality benefit
- Assistance program since 2000
- Up to 25% of construction
- Over \$3.3 million has been awarded to 56 projects since the start of the program

Why do we do this?

- Clean Water Act compliance
- Benefit to DuPage County communities
- Spread our limited dollars to maximize water quality benefits

<https://www.dupageco.org/WQIPGrant/>

Water Quality Grant Program



Green Infrastructure



Elmhurst Police Department Rain Garden (2017)



Jay Stream School Permeable Paver Parking Lot, Carol Stream (2016)



Jefferson Junior High Green Initiatives, Woodridge (2016)

Water Quality Grant Program



Stream, Riparian Restoration & Basin Retrofits



Elizabeth Court Detention Basin, Wood Dale (2015)



Arboretum Woods Shoreline Stabilization, Lisle Park District (2015)



Caddie Corner Park Streambank Stabilization, Woodridge Park District (2013)

WQIP Story Map





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Success Story

St. Joseph Creek

Background



Studying Impaired Waterways

- Update watershed plans with water quality projects
- Adhere to IEPA guidelines

St. Joseph Creek

- Urban stream in need of water quality improvements
- Impaired for aquatic life
- Local partners interested in improving it

Funding Watershed Plans



IEPA 319 Grant

- Received in 2015
- Funded watershed plan development for impaired waterways
- \$147,000
- 60/40 share
- County staff time

Watersheds Studied

- Klein Creek
- Kress Creek
- Winfield Creek
- Sawmill Creek
- St. Joseph Creek

St. Joe's Watershed Plan

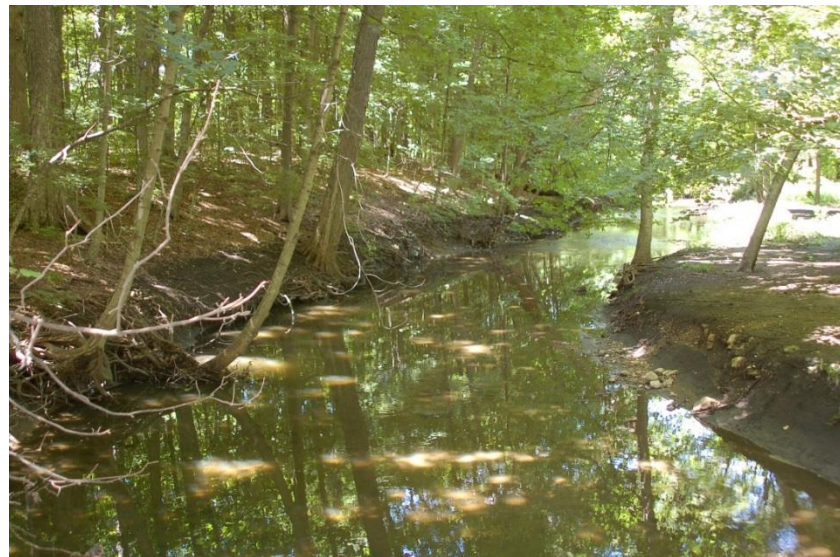


St. Joseph Creek Watershed Plan

- Water quality based plan
- 319 funded
- IEPA approved in 2017

Impaired for Aquatic Life

- Goal is to fix this

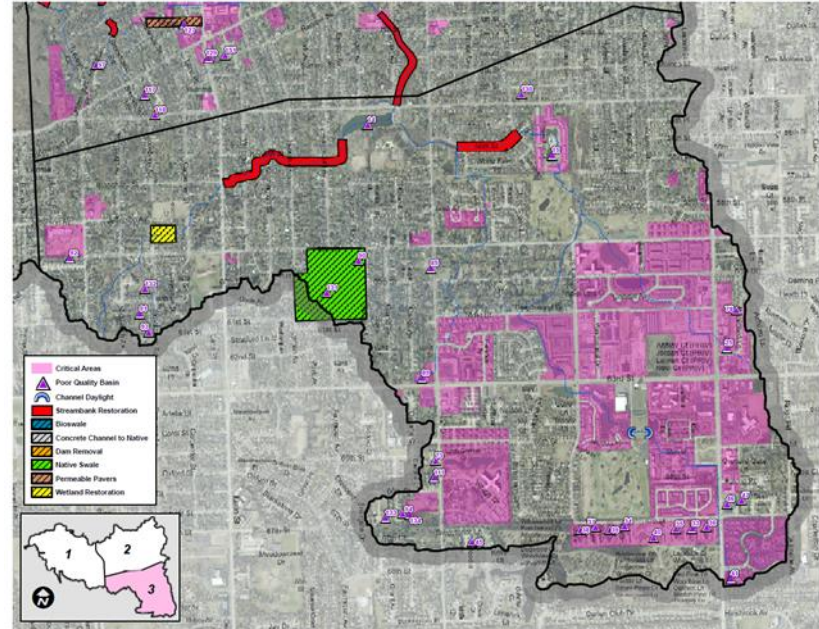


St. Joe's Watershed Plan



Priority Projects & Critical Areas

- Pollutant loadings from land use
- Watershed inventory
- Stakeholder input



Selected Project



St. Joseph Creek River Restoration

Village of Downers Grove

- Restoring 2,455 linear feet of St. Joseph Creek
- Regrading streambanks, channel stabilization with riffle cobble enhancement and native plants

Benefits

- Reduce pollutant loadings in stream
- Riparian and aquatic habitat improvement
- Educational opportunities



Funding Applications



Multiple Funding Sources Sought

- DuPage County Watershed Quality Improvement Grant Program, Applied December 2018
- IEPA 319 Grant, Applied August 2018
- Local Match

Award!



Successful Grants

- DuPage County Water Quality Improvement Grant Program
- IEPA 319 Grant
- Will fund ~75% of project costs
- Local match will be only ~25%

Next Steps

- Construction 2019-2020 within grant window
- Completion by 2022 with 2-year IEPA 319 grant period



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Wrap Up

Lessons Learned



Tips for Successful Applications

- Match agency requirements exactly
- Don't reinvent the wheel
- Use same conceptual designs, narratives, exhibits
- Update layout, grant specific sections, forms
- Attention to detail
- Answer the questions outlined in the application packet
- Use language appropriate to the grant
- Have alternatives approved by funding agency with original application (alternative buyouts, project options, etc.)

Upcoming Deadlines



DuPage County Water Quality Improvement Program

Applications due in January

IEPA 319 Grant

Applications due in August

IEPA 604b

Applications due in December

Questions?



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