

DuPage River Salt Creek Workgroup

Lower DuPage River
Watershed Coalition

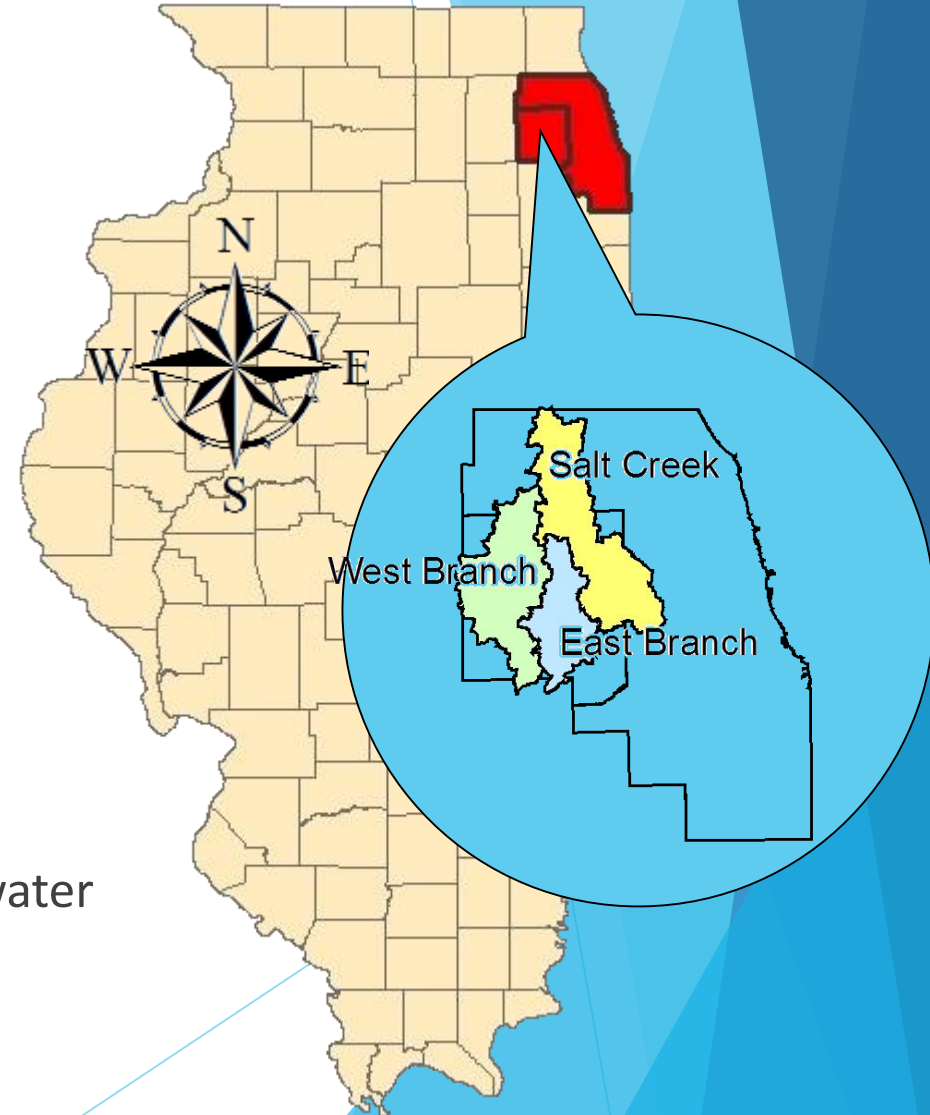
Nutrient Implementation Plan (NIP) Development

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DuPage River Salt Creek Workgroup

- ▶ Approximately 360 square miles of watershed
- ▶ Three waterways (100 miles mainstem stream)
- ▶ 55 municipal entities (24 POTWs)
- ▶ 156 MGD of effluent (based on DAF)
- ▶ Urban to suburban
 - ▶ 48.7% residential
 - ▶ 24.7% non-residential urban 26.6% open space, including water
- ▶ Approved TMDLs for DO and chloride on several reaches

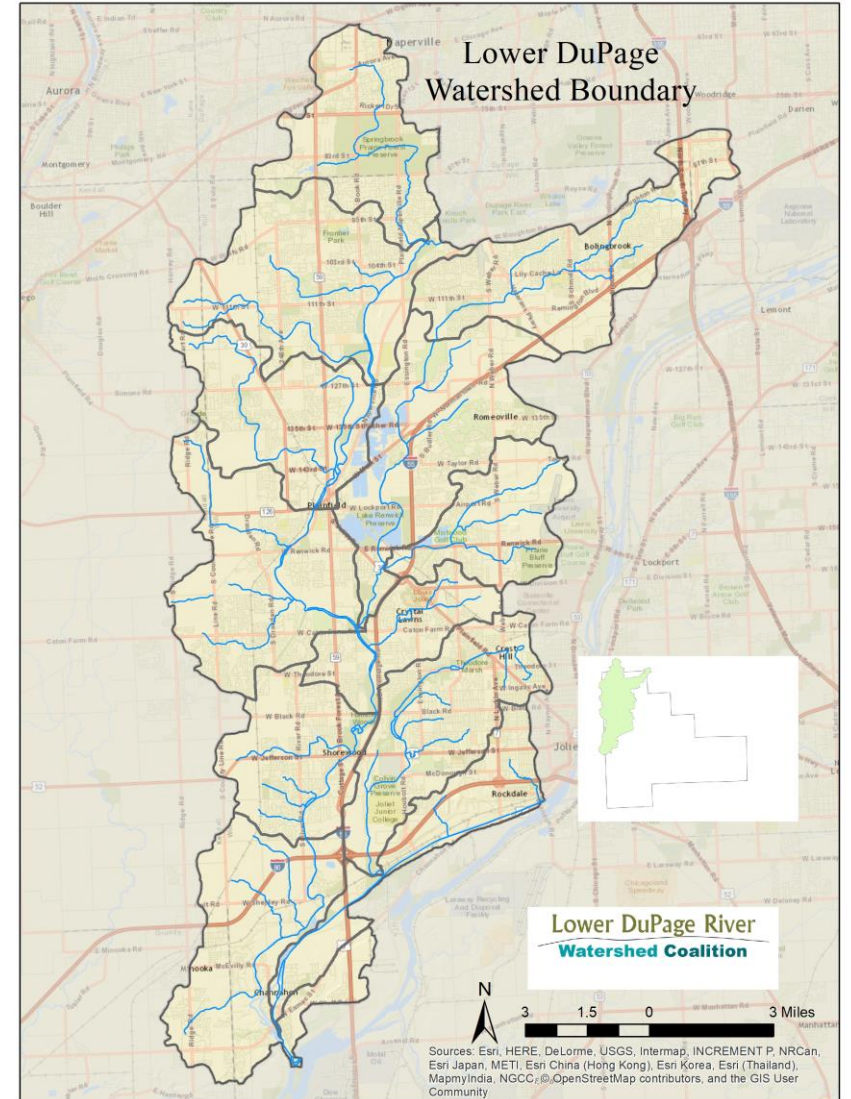


DRSCW NPDES Permit Special Conditions

- ▶ Requires DRSCW members to work together to determine most cost effective means to remove DO and nuisance algae
- ▶ Requires implementation of 9 stream restoration projects
- ▶ Sets 1 mg/L basin-wide effluent equivalent load
- ▶ Allows for point source to point source trading to address DO and nuisance algae
- ▶ Allows alternate means of reducing watershed phosphorus loading and removing DO and nuisance algae
- ▶ Requires Nutrient Implementation Plan

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- ▶ Watershed Boundary - Confluence of the West and East Branches (near Naperville) to the Channahon Dam
- ▶ 19 members
 - ▶ 10 Agency Members (6 POTWs)
 - ▶ 9 Associate Members
- ▶ Modified Special Conditions
 - ▶ Requires the implementation of 2 stream restoration projects
 - ▶ Participation in the DRSCW studies





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- ❖ The Permittee shall submit a NIP for the DRSCW/LDRWC watersheds that identifies *phosphorus input reductions* by *point source discharges, non-point source discharges and other measures* necessary to remove DO and offensive condition impairments and meet the applicable dissolved oxygen criteria in 35 IL Adm. Code 302.206 and the narrative offensive aquatic algae criteria in 35 IL Adm. Code 302.203.
- ❖ Include a schedule for implementation of the phosphorus input reductions and other measures.
- ❖ May work cooperatively with the DRSCW/LDRWC to prepare a single NIP that is common among DRSCW/LDRWC permittees.
- ❖ Due by December 31, 2023

NIP Components

- ❖ Identification and Prioritization System (IPS)
- ❖ QUAL 2 updates for the East Branch and Salt Creek
 - ❖ Development of QUAL 2 models for West Branch and Lower DuPage River (pending)
- ❖ NPS Feasibility Analysis
 - ❖ Leaf Litter and Streep Sweeping
- ❖ Nutrient Trading Program
 - ❖ Point Source to Point Source
 - ❖ Stream Restoration Crediting
- ❖ Chloride Reduction
- ❖ Additional Monitoring
- ❖ More (to be determined)

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Estimated Costs

NIP Components	Budgeted Amount
IPS Update	\$110,437
Qual 2K Updates for Salt Creek and East Branch	\$152,910
NPS Feasibility Analysis	\$183,610
Nutrient Trading Program	\$303,639
Other NIP Tasks	\$314,666
TOTAL	\$1,065,262

Costs above do not include

- 2.6 FTE staff (approx. \$264,000 annual)
- Chloride Reduction Program (approx. \$15,000 annual)
- Bioassessment Program (approx. \$200,000 annual)
- Continuous DO Monitoring Program (approx. \$20,000 annual)

Questions and Answers



West Branch DuPage River
Photo: DRSCW