

MPCA overview

Peter Tester | Deputy Commissioner

Greta Gauthier | Assistant Commissioner

Verlynn Schmalle | Chief Financial Officer

January 21, 2021

Our mission

Protect and improve the environment and human health.



Core products and services



Statutory authority

State Laws	229 state laws (not including appropriations) apply to the MPCA and direct program operations.
Federal delegations (EPA)	 Air programs: Outdoor air monitoring, permitting, air toxics, compliance & enforcement, regional haze, rules, etc. Water programs: Monitoring, permitting, Total Maximum Daily Loads, Compliance & enforcement, stormwater, feedlot, septics, etc. Land programs: Solid waste, hazardous waste monitoring & enforcement, Resource Conservation and Recovery Act (RCRA), etc.

Our partners

- Minnesota residents
- All levels of government (federal, state, county, municipal)
- Tribal Nations
- Citizen water monitors
- Non-governmental organizations
- Business large and small





Northwest Region Northeast Region BELTRAM **Detroit Lakes Duluth Office** AITKIN Office **CROW WING** CAPLTON Brainerd DITTER TAL North Central Region Metro Region Southwest St. Paul Office Region Marshall Office Mankato Office Southeast Region

MPCA Organizational Structure

Six Regional Offices:

Duluth

Detroit Lakes

Brainerd

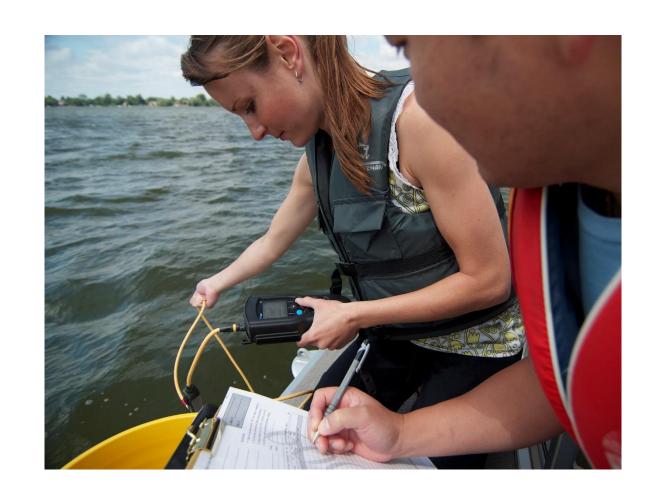
Marshall

Mankato

Rochester

Mostly Scientists

- Established in 1967
- Medium-sized agency (approx. 864 FTE)
- Low turnover rate (2.5%)
- 48% women
- 70% of staff are scientists
 - Engineers
 - Hydrologists
 - Soil Scientists
 - Chemists
 - Biologists
 - Environmental Specialists

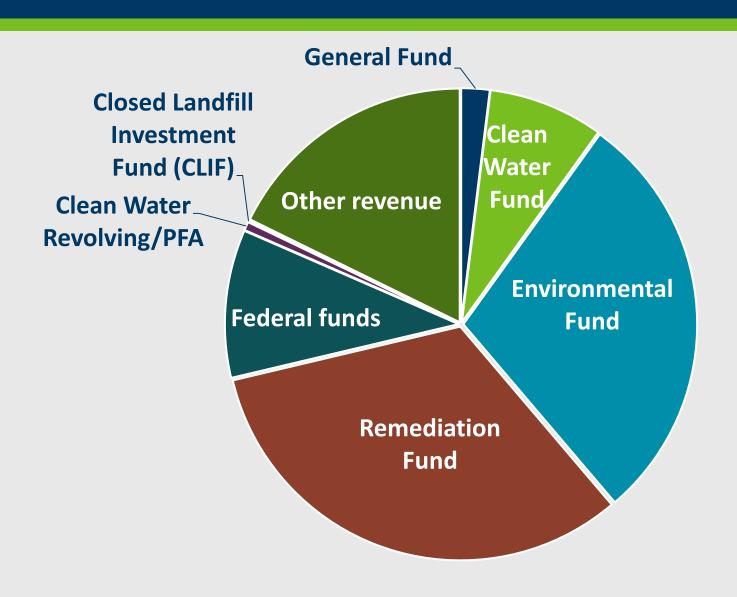


MPCA Organizational Structure

Commissioner's Office



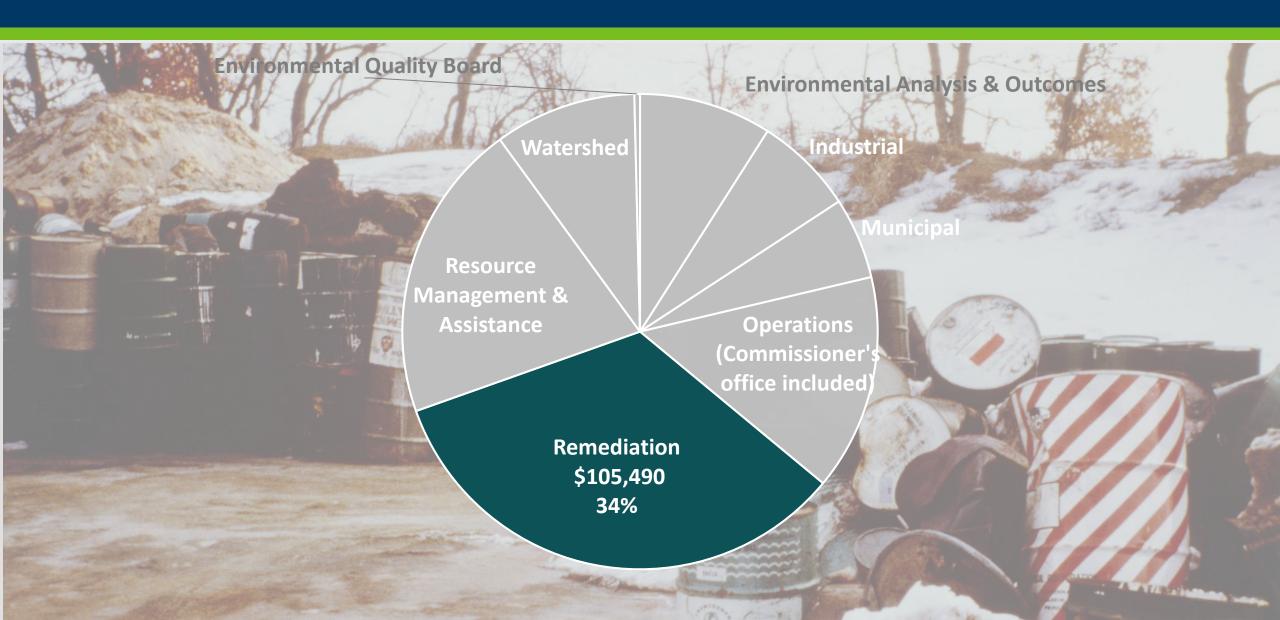
Where the money comes from



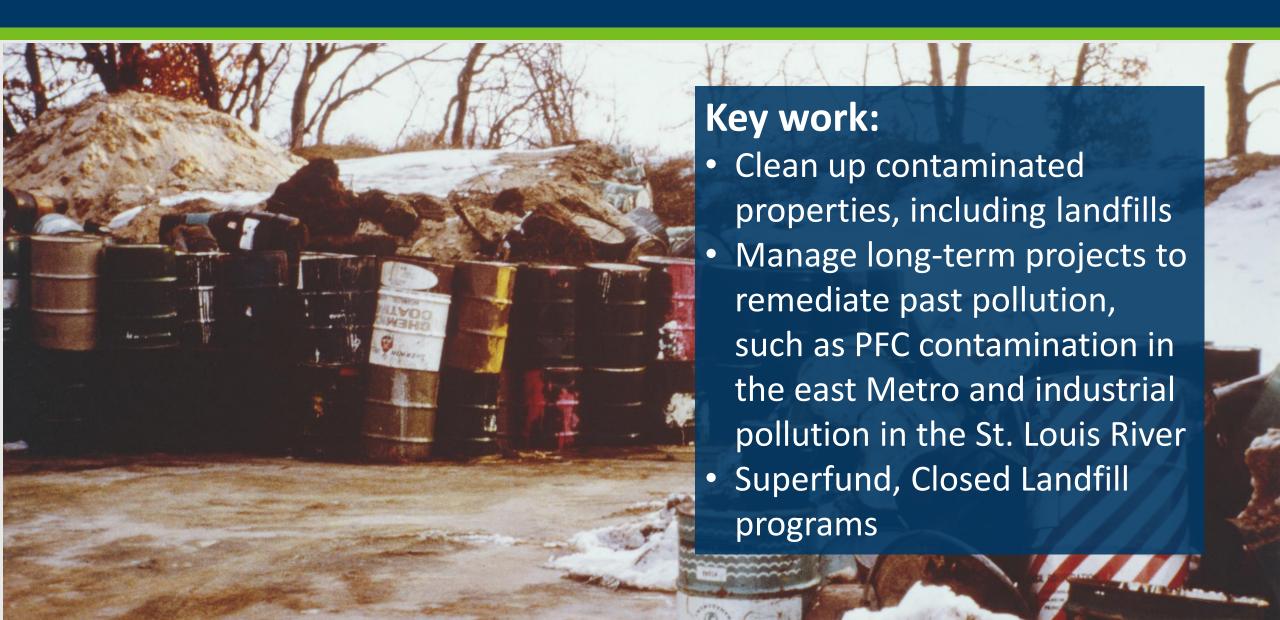
Where the money goes



Remediation Division FY21



Remediation Division



Resource Management & Assistance Division FY21



Resource Management & Assistance Division



Watershed Division FY21



Watershed Division



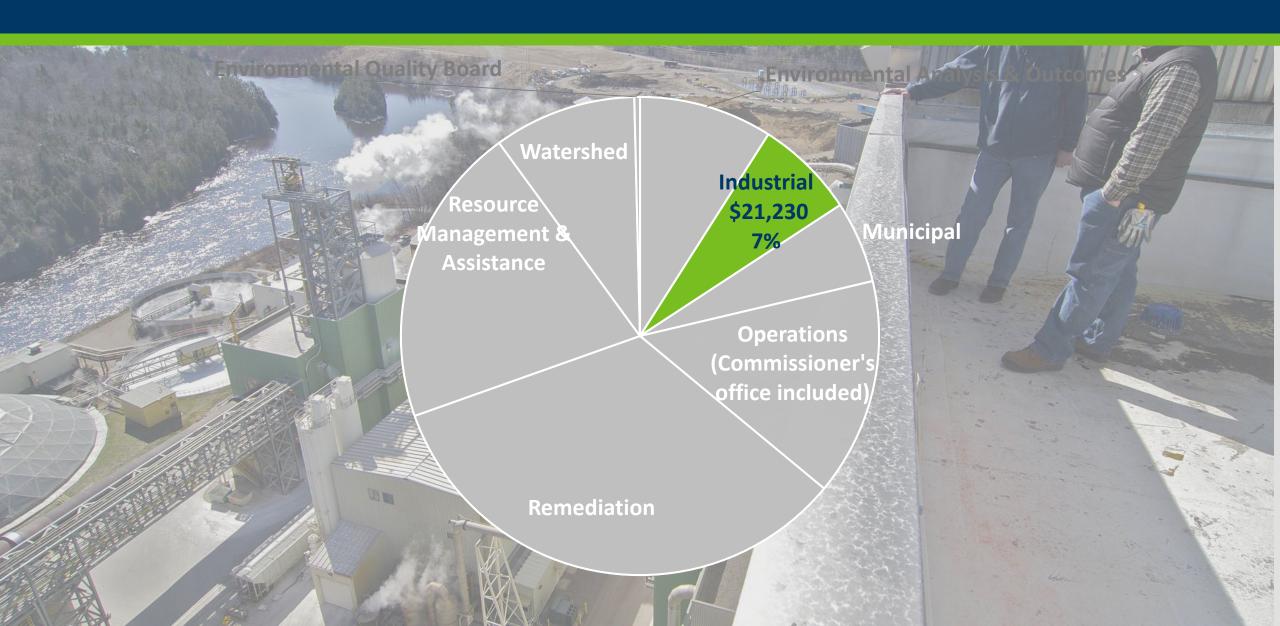
Environmental Analysis and Outcomes Division



Environmental Analysis and Outcomes Division



Industrial Division FY21



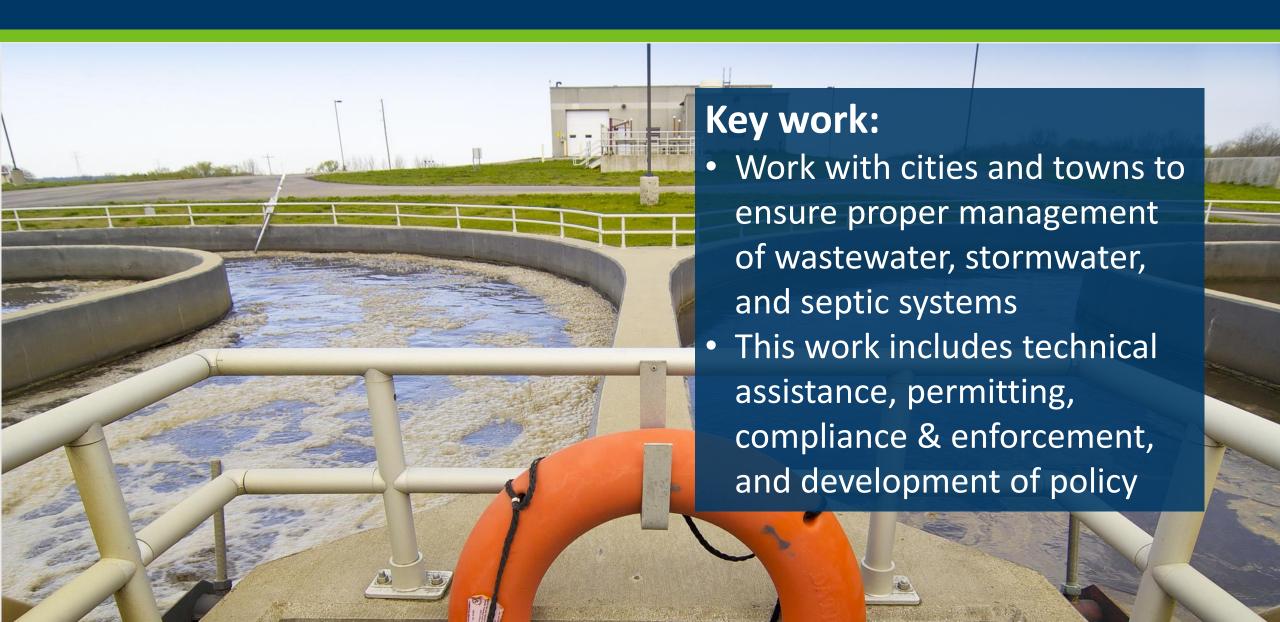
Industrial Division



Municipal Division



Municipal Division



Operations Division FY21



Operations Division

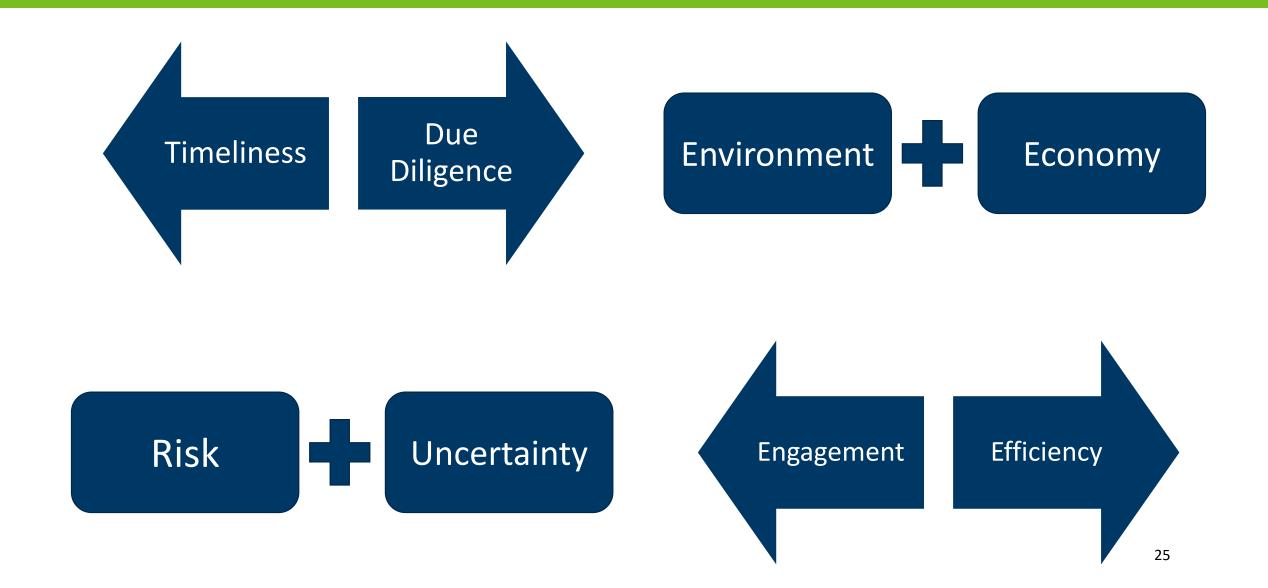


Key work:

Provide services that benefit all agency programs:

- Fiscal & contracting
- Human resources
- Legal services
- Communication
- Data management
- Emergency management
- Facilities & fleet

Trade-offs and Tandems



21st Century Tradeoffs

- Environmental and Human Health
 Science is constantly evolving
- Detection technology has accelerated much faster than cleanup technology
- What we can measure versus what we can manage

Nonbiological Removal of cis-Dichloroethylene and 1,1-Dichloroethylene in Aquifer Sediment Containing Magnetite

dechlorination of trichloroethylene (ethylene (cis-DCE), then to vinyl chethylene or ethane (3, 4) is often of mechanism leading to the degradation ylenes in groundwater. The current U.S. EPA screening model used to evaluation of the groundwater presume that the most if for contaminant destruction is biological rination (2, 5). With the exception of the

RICHARD T. WILKIN, †
ROBERT G.
JOHN T. W

JOHN T. W Minnesota Pollo St. Paul, Minne Research Labora U.S. Environme Drive, Ada, Okl

Ambient sediment quality conditions in Minnesota lakes, USA: Effects of watershed parameters and aquatic health implications



Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, MN 55155-4194, USA

HIGHLIGHTS

GRAPHICAL ABSTRACT

Information on ambient cadiment

Environmental Chemistry

PHARMACEUTICALS AND OTHER ANTHROPOGENIC TRACERS IN SURFACE WATER: A RANDOMIZED SURVEY OF 50 MINNESOTA LAKES

MARK L. FERREY,*† STEVEN HEISKARY,† RICHARD GRACE,‡ M. COREEN HAMILTON,‡ and APRIL LUECK†
†Minnesota Pollution Control Agency, St. Paul, Minnesota, USA
†AXYS Analytical Services, Sidney, British Columbia, Canada

(Submitted 24 March 2015; Returned for Revision 16 April 2015; Accepted 17 June 2015)

Abstract: Water from 50 randomly selected lakes across Minnesota, USA, was analyzed for pharmaceuticals, personal care products, hormones, and other commercial or industrial chemicals in conjunction with the US Environmental Protection Agency's 2012 National Lakes Assessment. Thirty-eight of the 125 chemicals analyzed were detected at least once, all at parts per trillion concentrations. The most widely detected was N,N-diethyl-m-toluamide, present in 48% of the lakes sampled. Amitriptyline, a widely used antidepressant, was found in 28% of the lakes. The endocrine active chemicals bisphenol A, androstenedione, and nonylphenol were found in 42%, 30%, and 10% of the lakes, respectively. Cocaine was found in 32% of the lakes, and its degradation product, benzoylecgonine, was detected at



Thank you!

Peter Tester

Peter.Tester@state.mn.us

