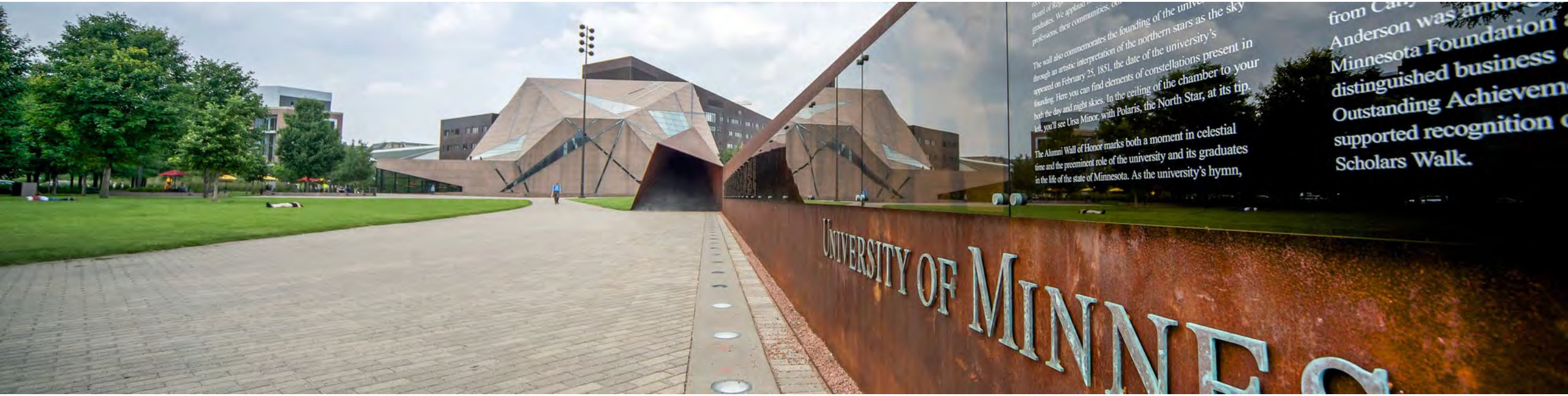
MnWHAT? – Who Are We?

- **Minnesota Technical Assistance Program**
- **University of Minnesota**
  - Outreach and assistance unit
  - Grant and partner funded
- **Confidential, No Cost Engineering Technical Assistance for Minnesota Businesses**
- **http://www.mntap.umn.edu**

Minnesota Technical Assistance Program

Strengthening Minnesota businesses by improving efficiency while saving money through energy, water, and waste prevention.



MnTAP – How We Do It

Provide no cost technical assistance

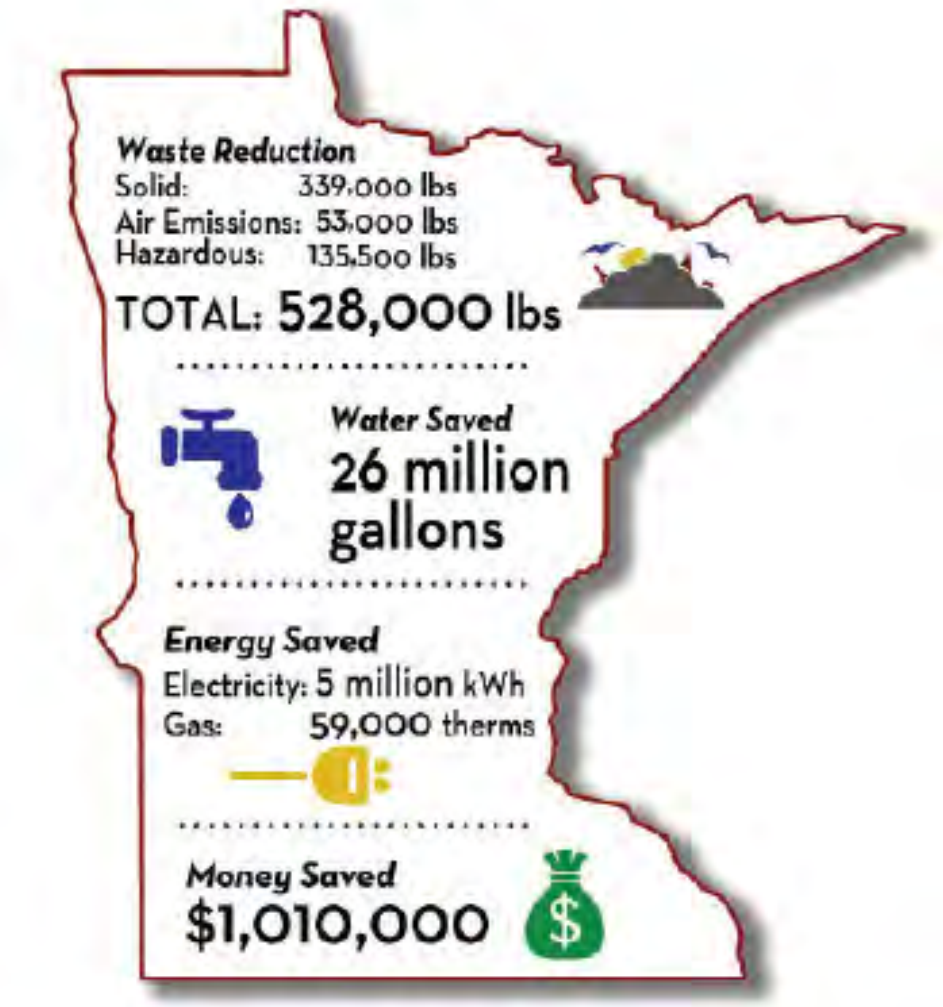
- Pollution Prevention
- Energy Efficiency
- Water Conservation
- Cost Savings

Through

- On Site Assessments
- Intern Projects
- Minnesota Materials Exchange

MnTAP Impact from 2018

- Completed 2 year project in the food industry achieving over $200,000 in savings
- Worked with 17 businesses in North Minneapolis to eliminate 2,870 lbs of volatile organic compounds (VOCs) from the air
- Supported 15 student projects and engaged 32 companies for waste, water and energy efficiency that can save $1.5 million



http://www.mntap.umn.edu/download/186/impact-environmental-benefits-reports/15568/impact-2018.pdf

Minnesota TCE Alternatives Project

Goal:

- Decrease air emissions of TCE by working with Minnesota industries to minimize TCE use

Approach:

- Overcome barriers for businesses seeking to switch away from TCE

Partners:

- Toxics Use Reduction Institute (TURI), University of Massachusetts
- U.S. EPA Region 5/MPCA Pollution Prevention Partnership Program

When:

- February 2018 – September 2020

Minnesota TCE Alternatives Project

How:

- **Engage facilities in Minnesota currently using TCE**
- **Provide training on strategies for TCE replacement**
  - June 11, 2019
  - University of Minnesota
- **Site Assessments**
- **Solubility Testing - TURI**
- **Implementation Assistance**

Objective:

- **10,000 lb TCE reduced**

TURI
TOXICS USE REDUCTION INSTITUTE
UMASS LOWELL

https://www.turi.org/

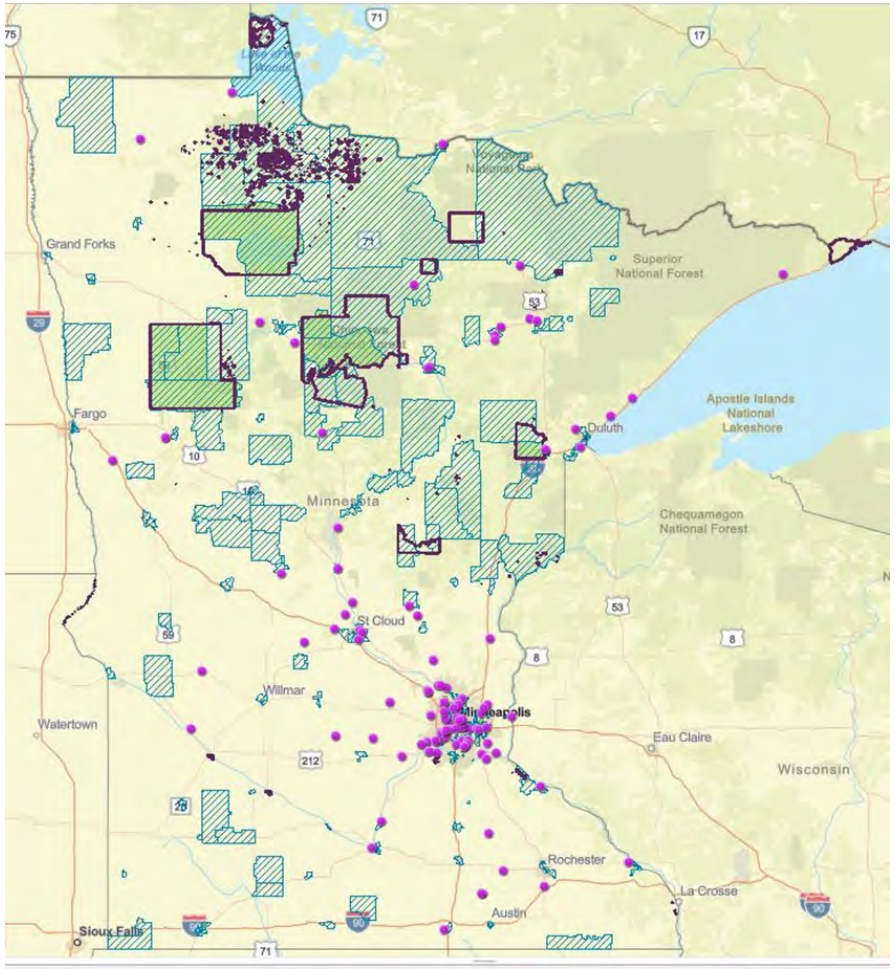
Mn TAP

http://www.mntap.umn.edu/

http://www.mntap.umn.edu/industries/facility/machine/tcealternatives/#TCE%20Registration

Trichloroethylene (TCE) Use in Minnesota

- **TCE is used in many locations throughout Minnesota**
  - Large users
  - Small users
  - Commercial products



Water Gremlin Supplemental Environmental Project (SEP)

Goal:

- Decrease air emissions of TCE as defined in the Supplemental Environmental Project in the Water Gremlin Stipulation Agreement

Approach:

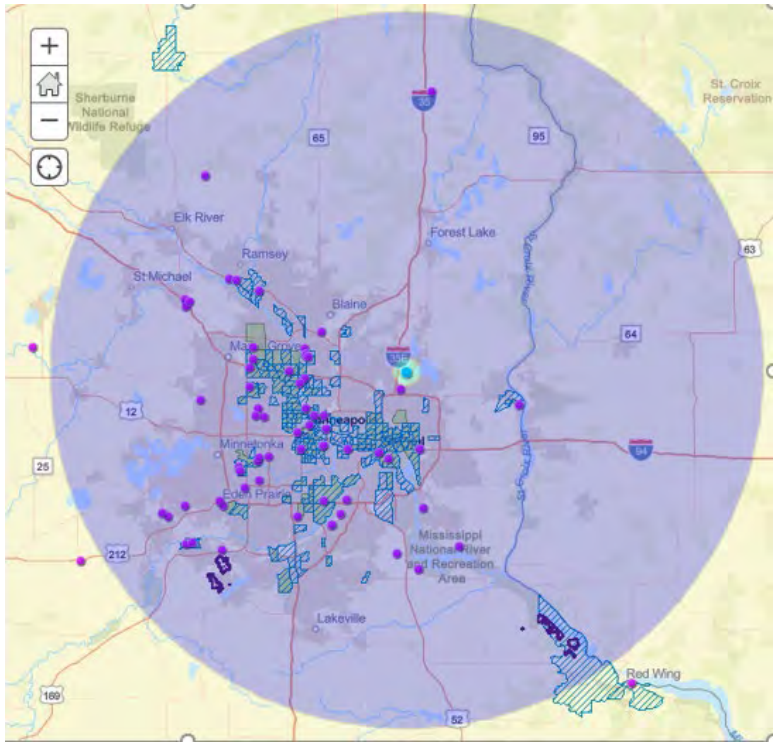
- Extension of EPA funded TCE alternatives project
- Safer products air quality intern project

Priority areas:

- Within 40 miles of Water Gremlin
- Environmental Justice communities
- Rest of Minnesota

When:

- May 2018 – December 2022



Safer Products Air Quality Intern - Process

A MnTAP intern will perform assessments of chemical products used, with a focus on brake cleaners, penetrants, and energized parts cleaners that contain TCE and other hazardous components

- Identify products
- Suggest alternatives
- Provide samples
- Test alternatives
- Provide product
- Document Results