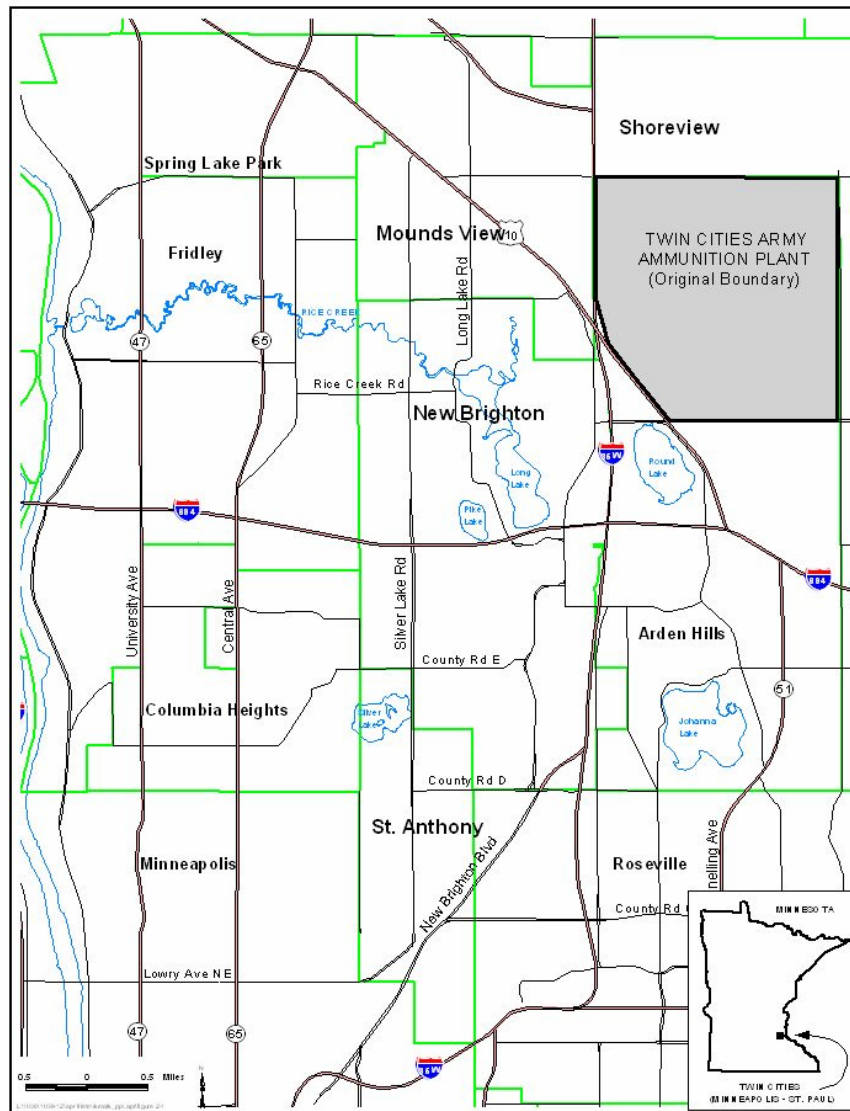


# Remediation and Water Supply: A Partnership

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Mike Fix

Remedial Project Manager  
Commander's Representative

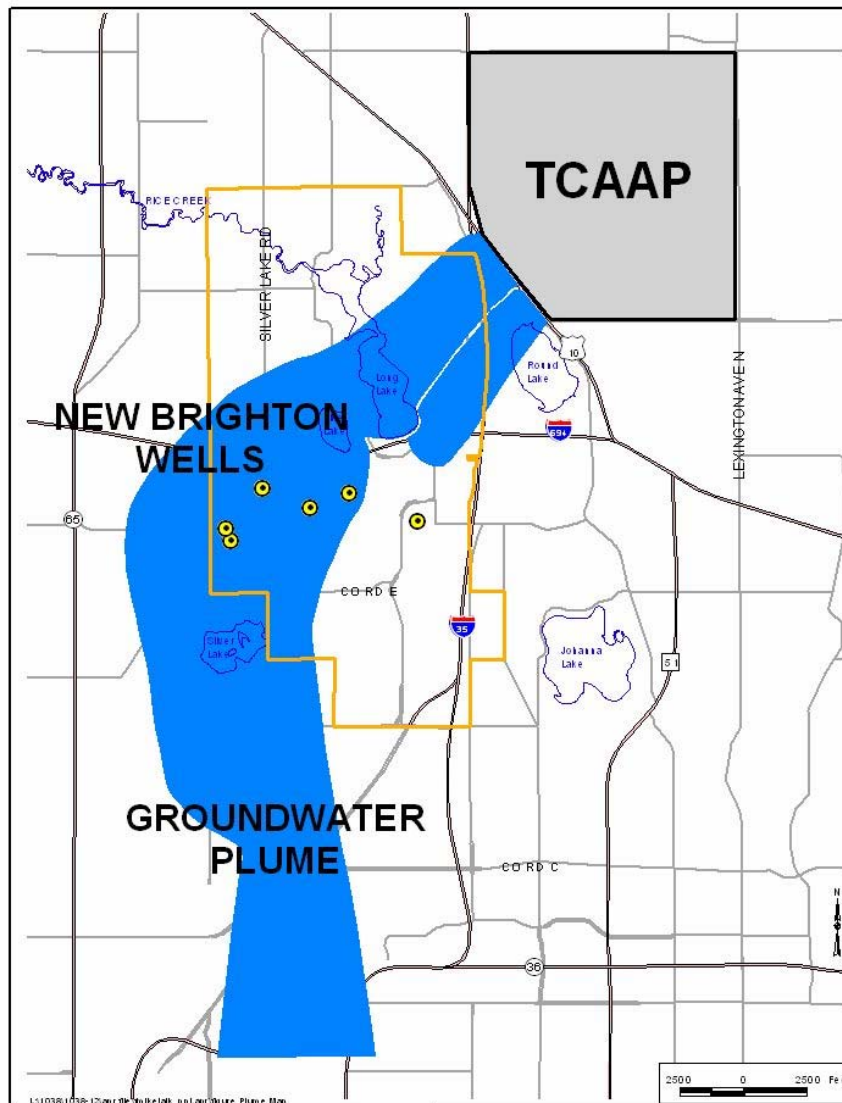


TCAAP Site Location Map

# Background

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- TCAAP was an industrial complex established to support WWII efforts
- Operation of TCAAP included on-site disposal of mobile contaminants, primarily VOCs
- Contaminated ground water migrated off TCAAP



TCAAP Plume Map

# Background (cont)

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- MDH discovered VOC contamination in New Brighton municipal wells
- TCAAP was identified as a source
- TCAAP was added to the NPL
- New Brighton sued the Army
- New Brighton and the Army have a rather unique settlement of the lawsuit

# Army Obligations

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- Meet legal obligations for a remedy under CERCLA
- Meet legal obligations of settlement agreement with New Brighton

# Partnering Solution

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- The City of New Brighton and the Army recognized that remediation of contaminants and beneficial use of the treated water was a cost-effective and efficient means of meeting the Army's obligations

# Settlement Agreement

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New Brighton agreed to:

- Plan, Design, Construct, Inspect, Operate, Maintain and Own or Lease a Permanent GAC Plant on New Brighton Property

Army agreed to:

- Pay for all costs reasonably associated with the Permanent GAC Plant



# CERCLA

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Army Required to:

- Remediate contaminated ground water that had migrated off TCAAP

# Settlement Agreement

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## Army Option:

- Require New Brighton to operate the PGAC at rates beyond requirements to meet New Brighton water demand

## Army Responsibility:

- Discharging all GAC treated water not used by New Brighton

# CERCLA

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- Remedy involved a baseline rate for extracting ground water
- Baseline rate exceeded New Brighton's baseline water demand
- Required water management for water excess to New Brighton's needs

# Partnering Solution

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- Another partner, the City of Fridley, conditionally agreed to take excess water as available
- New Brighton-Fridley Interconnection Agreements

# Partner Conditions

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- Army responsible for all reasonable costs
- A minimum base flow is supplied all the time to meet sanitation standards
- Water quality (iron and manganese removal) consistent with established operation

**THE  
PARTNERSHIP**

ALLIANT TECH SYSTEMS

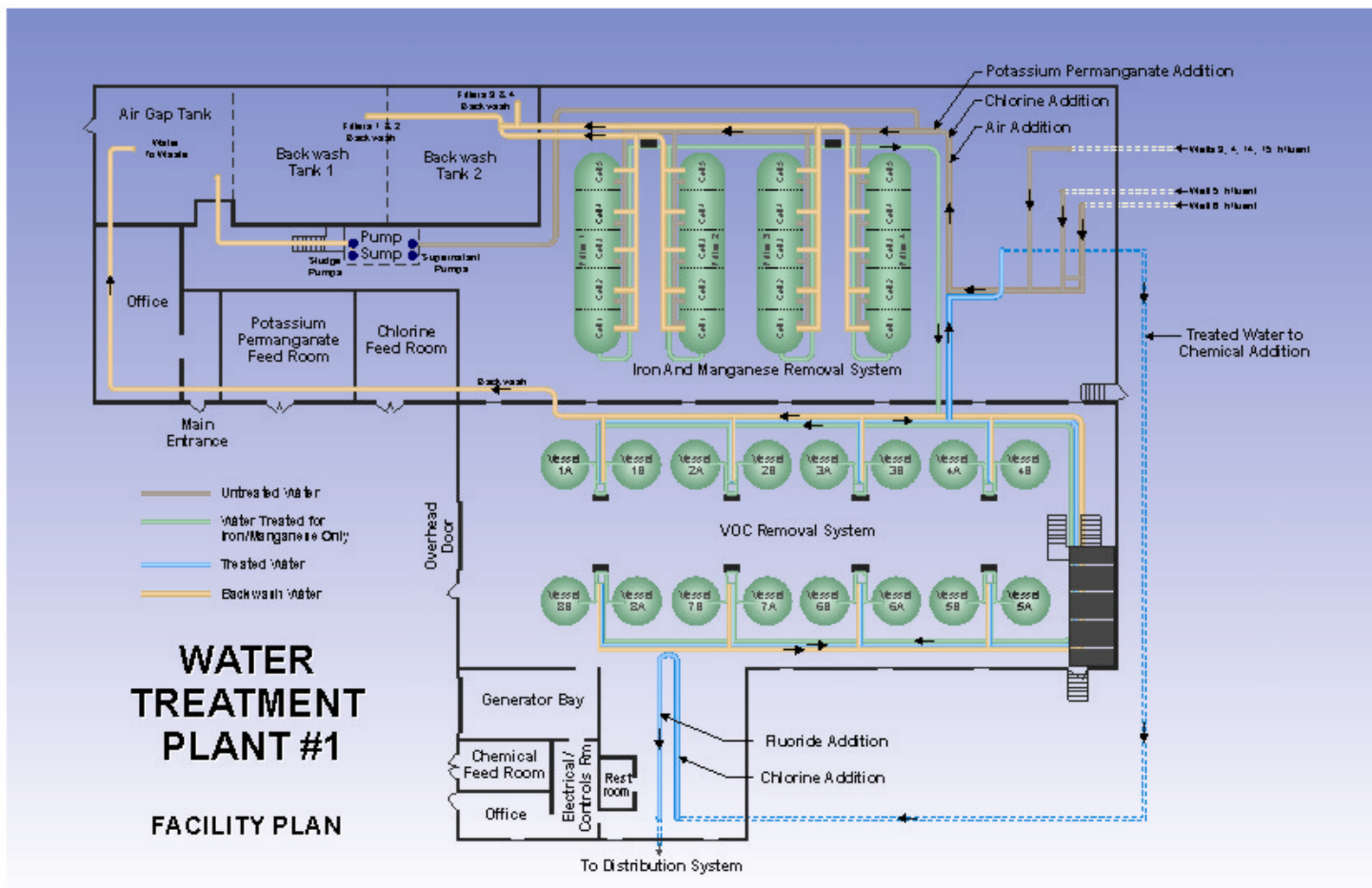


**CITY OF  
FRIDLEY**

**city of  
NEW  
BRIGHTON**

UNITED STATES • AGENCY  
ENVIRONMENTAL PROTECTION AGENCY









# Remediation and Water Supply: A Partnership

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## Partner Benefits

# New Brighton Benefits

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- Insured a continued safe, adequate and reliable water supply
- Some normal operating costs are paid by the Army
- Iron and Manganese removal
- Helps insure highest and best use of the resource

# Fridley Benefits

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- Some normal operating costs are reduced by using water supplied through the interconnection
- Helps insure highest and best use of the resource

# Army Benefits

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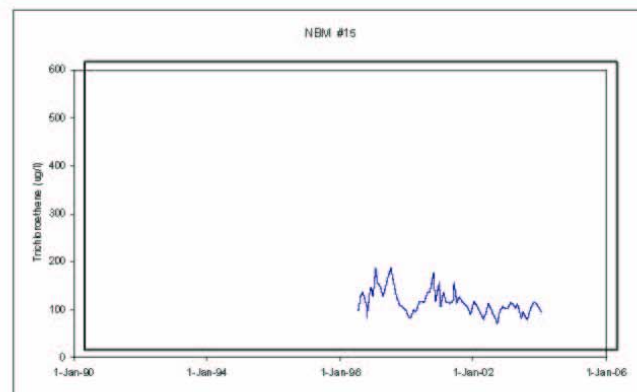
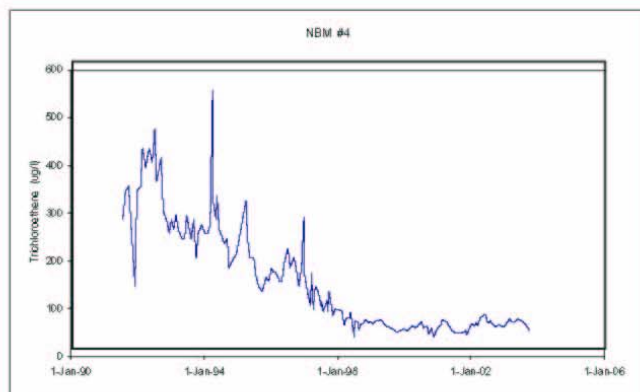
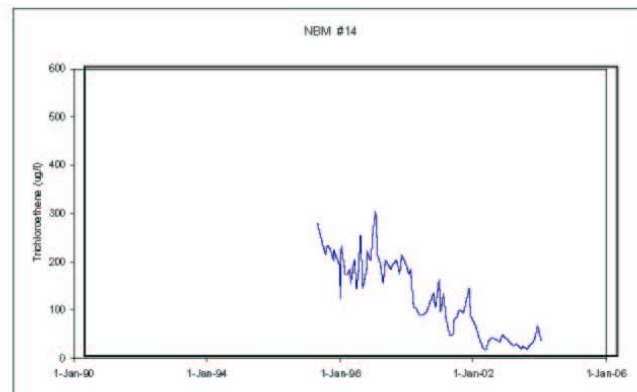
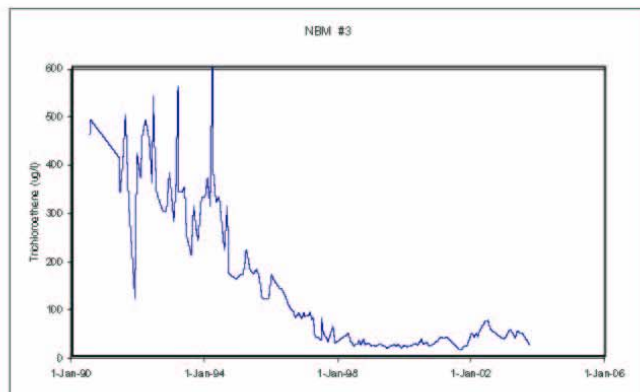
- Meets settlement agreement obligations
- Meets CERCLA obligations
- Cost effective
- Helps insure highest and best use of the resource

# Overall Outcome

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- Improved Safety of Water Supply
- Improved Adequacy of Municipal Water Supply
- Improved Ground Water Quality
- Conservation of Ground Water Resource

## NEW BRIGHTON MUNICIPAL WELLS: TRICHLOROETHENE WATER QUALITY TRENDS TWIN CITIES ARMY AMMUNITION PLANT



# Cleanup Progress at TCAAP

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- Source area removal and pumping
- Property boundary pumping
  - Modifications
  - Wells shut off
- New Brighton pumping
  - 1 well shut off

# Questions & Comments

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**Mike Fix**  
**mike.fix@us.army.mil**