

# TWIN CITIES ARMY AMMUNITION PLANT (TCAAP)

Village of St. Anthony, City Council Meeting

*Gary Krueger, Supervisor  
Remediation Division  
April 12, 2016*

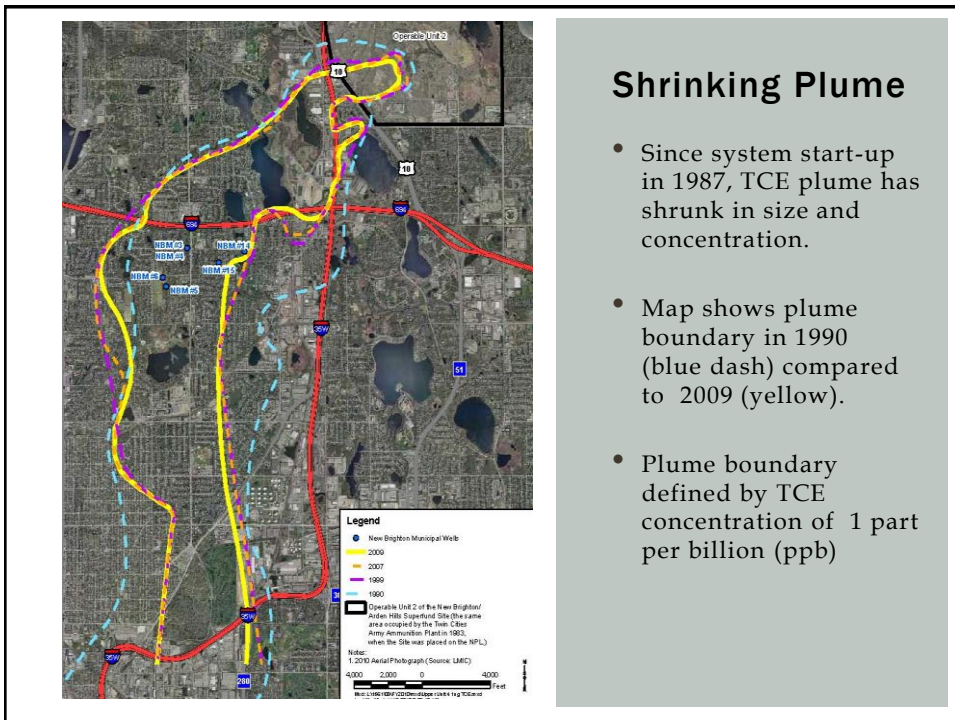
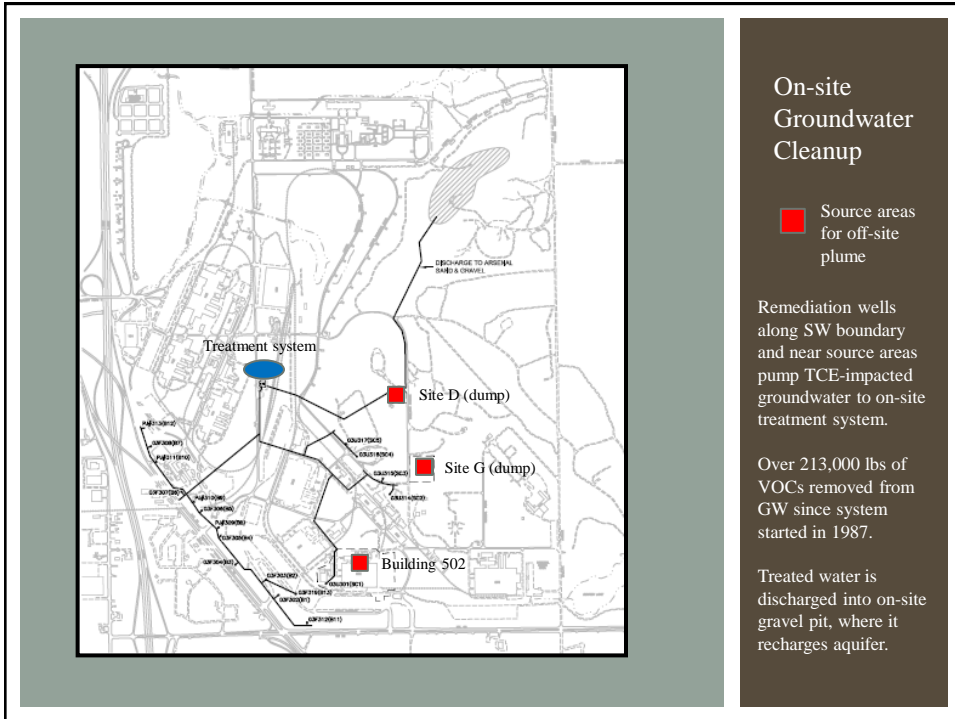


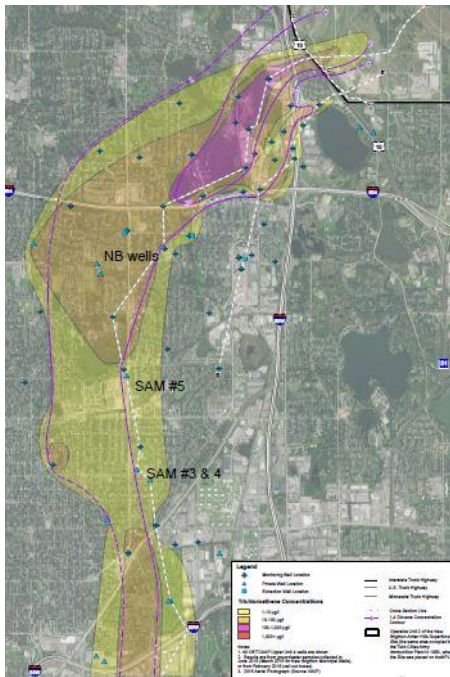
Minnesota  
Pollution  
Control  
Agency



## Aerial Photo of TCAAP Facility (2010)

- Manufacturing operations were on western 1/3 of site
- Historical disposal areas were located in undeveloped eastern area.
- Ramsey County purchased western 1/3 in 2013 and has since removed all buildings.





## Off-Site Plume

2015/2016 Data, Bedrock Aquifer

### Colored shading = TCE

- Current concentrations up to 960 ppb in purple zone (historical high 2100 ppb)
- Current concentrations in yellow zone <10 ppb

### 1,4-Dioxane (DX)

- Max DX on TCAAP: 280 ppb
- Max DX off-site: 60 ppb (near TCAAP boundary)
- Inner purple contour=DX 10 ppb
- Outer purple contour=DX 1 ppb
- Most off-site concentrations are between 1 and 10 ppb
- SAM wells straddle 1 ppb contour (HRL = 1 ppb)

## 1,4-Dioxane - What's Next?

- Army is currently conducting an investigation to determine extent of DX plume.
- Remedial decision for on-site DX will be made after investigation is complete.  
(existing TCE treatment plant does not remove DX)
- Focus to date has been on DX treatment systems for drinking water supplies.