# Informational Meeting Former Woodbury Disposal Site Remedial Investigation (RI) & Feasibility Study (FS)

January 10, 2008

Woodbury RI / FS Meeting 3M

Exhibit 2743

State of Minnesota v. 3M Co.,

#### **Agenda**

Welcome & Introductions – Bill Nelson (3M) Overview – Jean Sweeney (3M)

- > The Chemistry
- > 3M's Phase Out
- Historic Use of the Woodbury Site & environmental improvements
- > PFC Investigation

Remedial Investigation & Feasibility Study - Katie Winogrodzki (3M)

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#### Jean Sweeney

# 3M Vice President Environmental, Health and Safety Operations

#### **The Chemistry**

- Perfluorochemicals:
  - -PFOS
  - PFOA
  - -PFBA
- 3M no longer manufactures PFOS, PFOA or PFBA

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#### **Unique Properties** of the Chemistry

- PFC are used to make products that are resistant to water, oil and extreme temperatures.
  - Some applications:
  - Non-stick cookware
  - Stain repellants
  - Pipe coatings
  - Protective coatings for electrical wiring
- PFCs of interest today do have some water solubility.
- This allows the molecules to move along with the groundwater without sticking to solid surfaces.

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#### **3M PFC Research**

- 30 years of medical monitoring of production employees
- 1500 Studies of laboratory

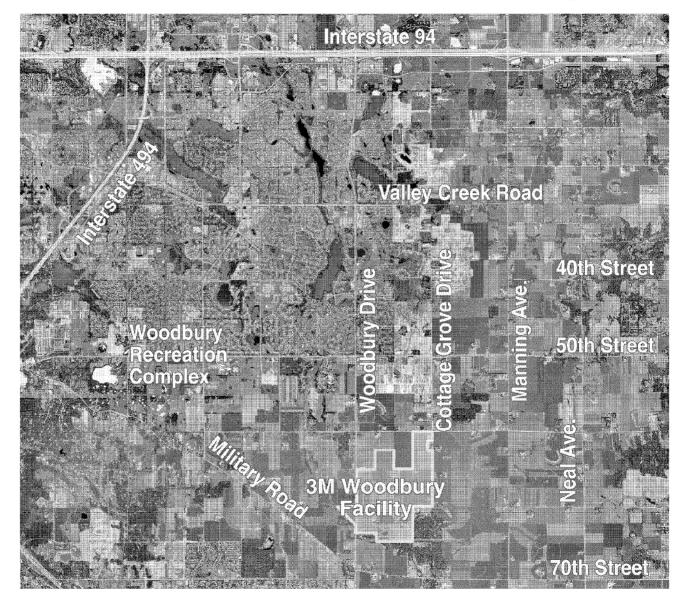
3M research continues and is peerreviewed and relied upon by regulators and scientists around the world

wide spread presence – at low levels - in the environment and in people

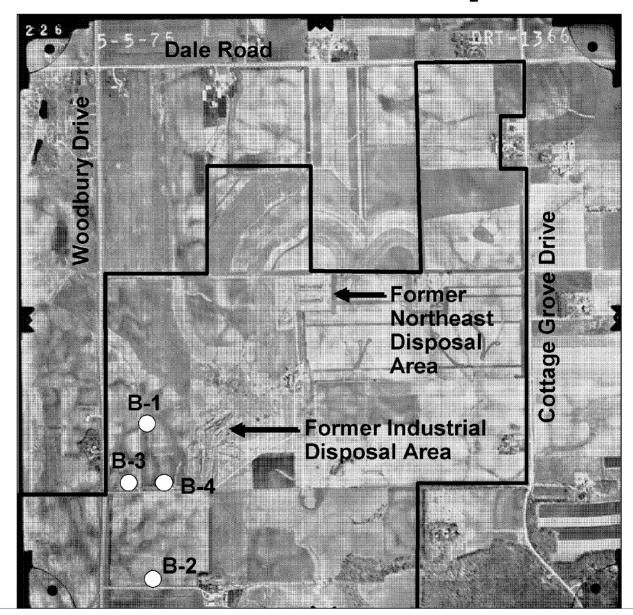
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#### **Woodbury Site Vicinity**



#### 1975 Aerial Map





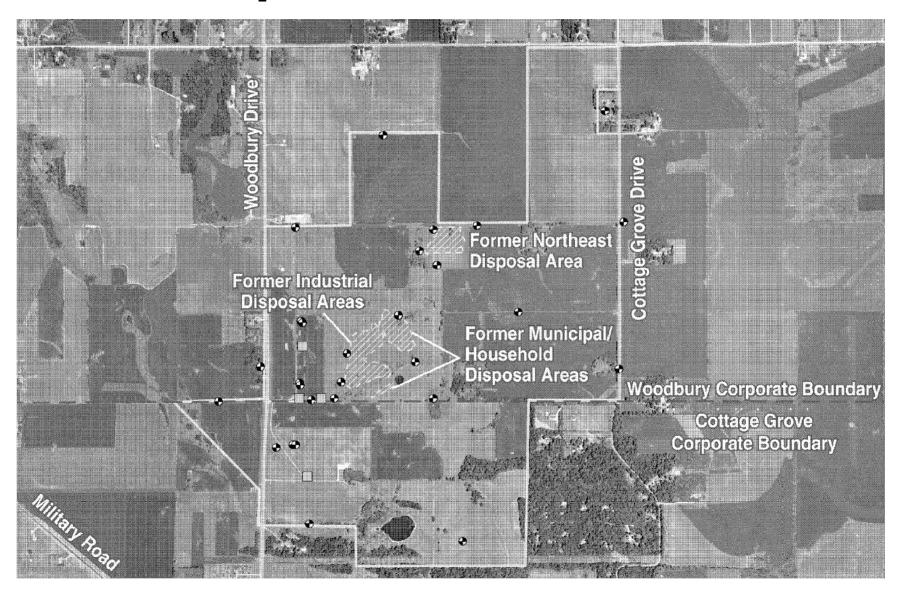
- 0-200 gpm
- 200-400 gpm
- 400-600 gpm
- 600-800 gpm
- 800-1100 gpm

Source: Integrating Groundwater & Surface Water Management Southern Washington County August 2005 Barr Engineering Company

# Katie Winogrodzki Woodbury Project Manager

3M Environmental Operations 651-778-5393

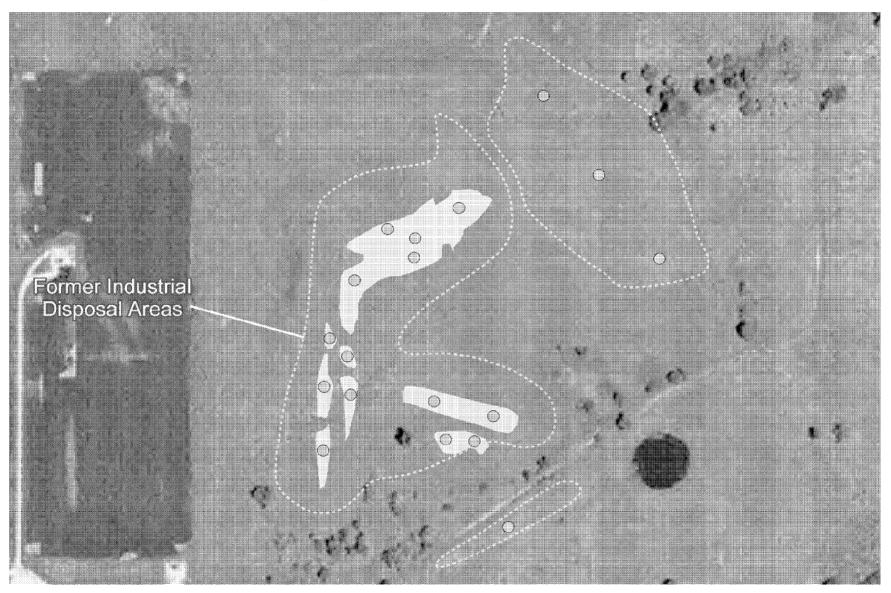
#### **Disposal Area Locations**



#### **Sampling Location Map - Groundwater**



#### **Sampling Location Map – Soil**



#### **Summary of PFC Investigation**

#### Groundwater

- PFCs detected in groundwater
- The highest PFC concentrations were found downgradient of the former northeast disposal area.

#### PFCs in Soil

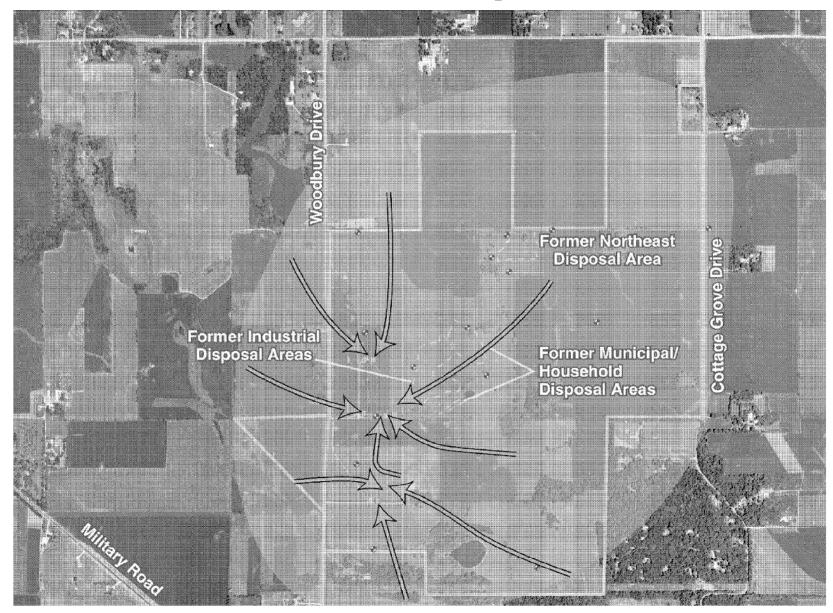
- Former Northeast Disposal Area Trenches
- Former Industrial Disposal Area Generally below 10 feet.
- Former Municipal / Household Disposal Area Trace levels.

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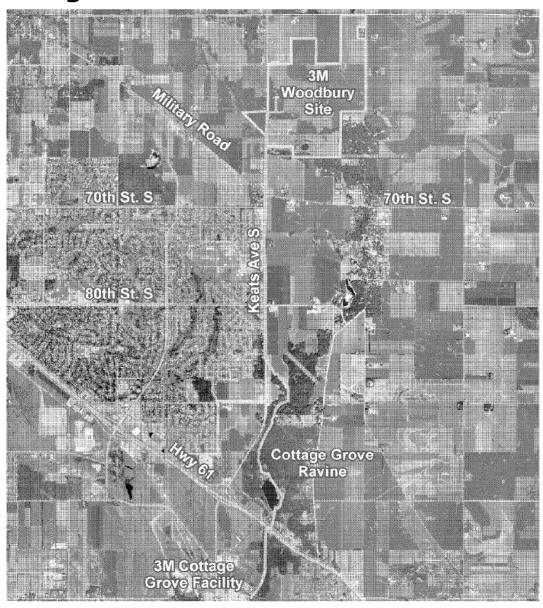
### Summary of PFC Investigation Field Work (2005 – 2007)

- Evaluate capture efficiency of the extraction Wells
- Assessed integrity of pipeline that conveys water from the former Woodbury disposal area to the 3M Cottage Grove facility

#### **Extraction Well Capture Zone**



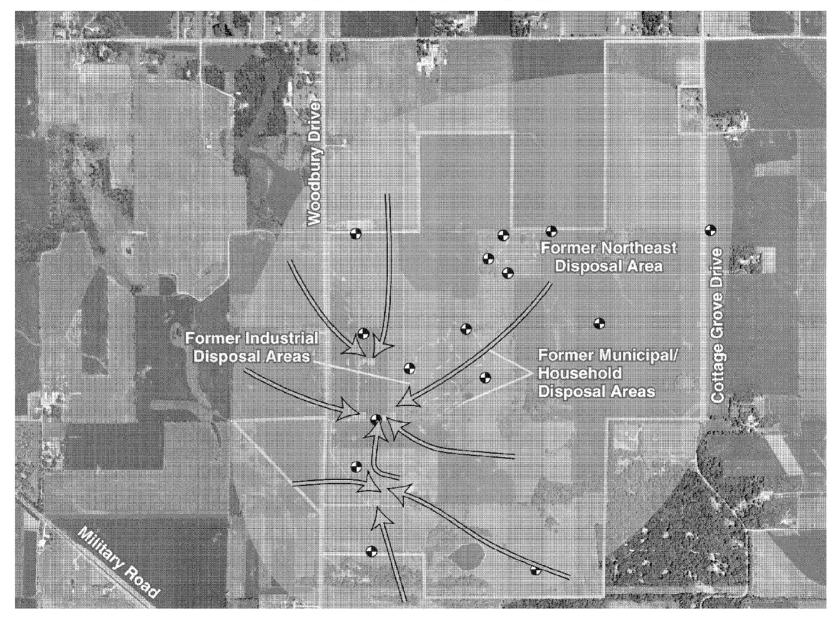
#### **Woodbury Extraction Well Water Line**

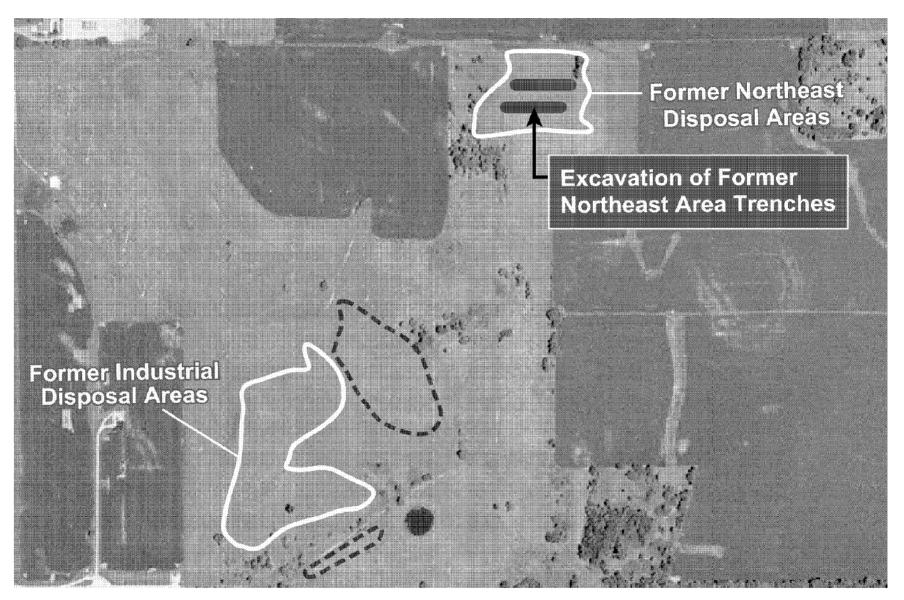


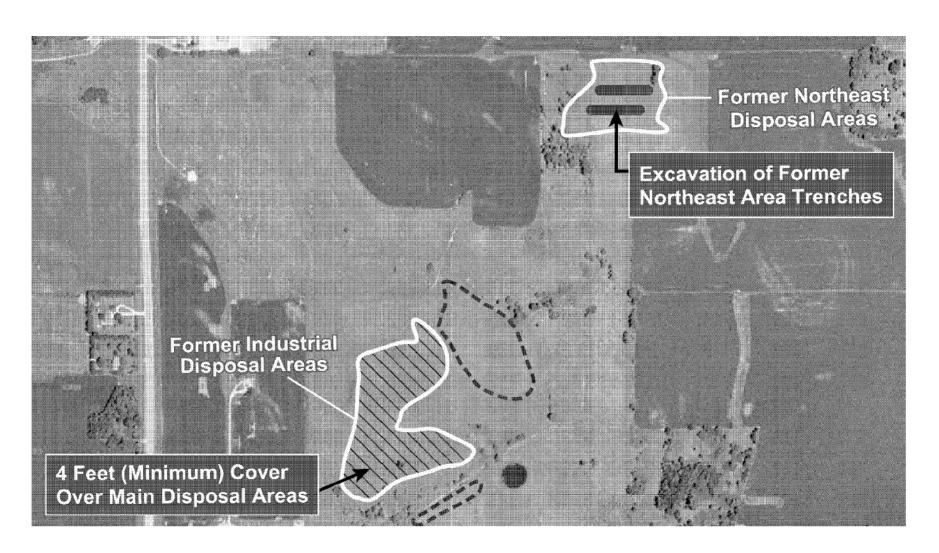
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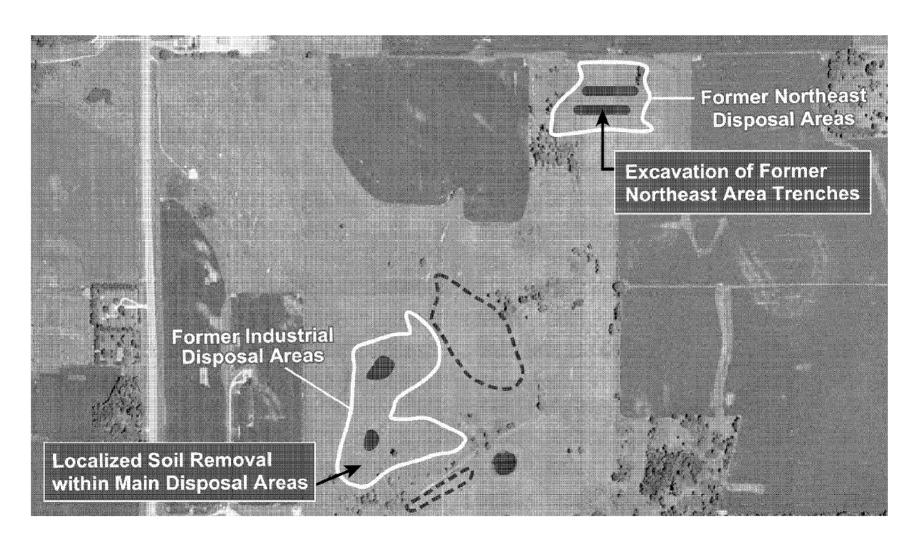
#### **Path Forward**

- Enhance existing site remedies
- A range of options to further reduce the potential of future PFC exposure from the site.









#### **Summary**

- All options protect the environment and groundwater.
- Final remedy determined by MPCA with an opportunity for public comment.
- Work expected to begin in 2008 and will range between 1-3 construction seasons.

#### **More Information:**

#### www.3M.com/pfos-pfoa

3M E-mail:
eastmetroresponse@mmm.com
Woodbury City Water Quality
Report:
http://www.ci.woodbury.mn.us