

# Liquids: A Success Story Village of Hanover Park

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# Village Statistics

38,000 residents

30 employees

100 center lane miles of residential roadways

193 cul-de-sacs

2 fire stations

3 commuter parking lots

1 sewage treatment plant

4 well houses

4 miles of bike paths

Average 21 call outs per season, of which 7 are plow events.

# History of Pre-wetting and Anti icing in Hanover Park

- \* Materials
  - \* Calcium Chloride
  - \* Salt Brine
  - \* Geomelt blend
  - \* Future?

# Pre-wetting

- \* Equipment
  - \* Truck Spray system
  - \* Tail Gate Tanks
  - \* Single Tanks, behind cab
  - \* Tandem Saddle Tanks





# Pre-Wetting Application Methods

- \* Wet Load
- \* Spray on Spinner
- \* Spray into auger





# Anti-Icing Methods

- \* Where we spray?
- \* Hills, Curves, Schools, Stop Sign Intersections.
- \* Expanded to Municipal Lots, 2010
- \* Expanded to Sidewalks, 2011
- \* Streets over 25 MPH
  
- \* When do we spray?
- \* Application rates.

# Anti-icing Units

- \* First Unit– Skid mounted 250 Gallon tank on existing one ton dump
- \* Second Truck – Skid Mounted 500 Gallon on an existing one ton dump
- \* Sidewalk Sprayer



# Material Storage

- \* Salt Dome
- \* Liquid Tanks



# Material Purchase

- \* Salt
- \* Salt Brine
- \* Geomelt
  
- \* Making our own Salt brine
- \* Equipment
- \* Location
- \* Costs



# Obstacles

- \* Selling to Village Manager
- \* Selling to Village Board
- \* Acceptance by Elected Officials
- \* Acceptance by Public



# Shortfalls/Lessons Learned

- \* Limited Streets
- \* Budget
- \* Weather
- \* Odor
- \* Foaming
- \* Corrosion

# Environmental Considerations

- \* Chlorides in the Streams
- \* West Branch of the DuPage River
- \* Chloride Levels