



Department of the Environment

# MTBE Contamination and Remediation Fallston Update

Greater Fallston Association, Inc.

Annual Meeting, December 3rd 2009

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MDE Oil Control Program





# Presentation Outline

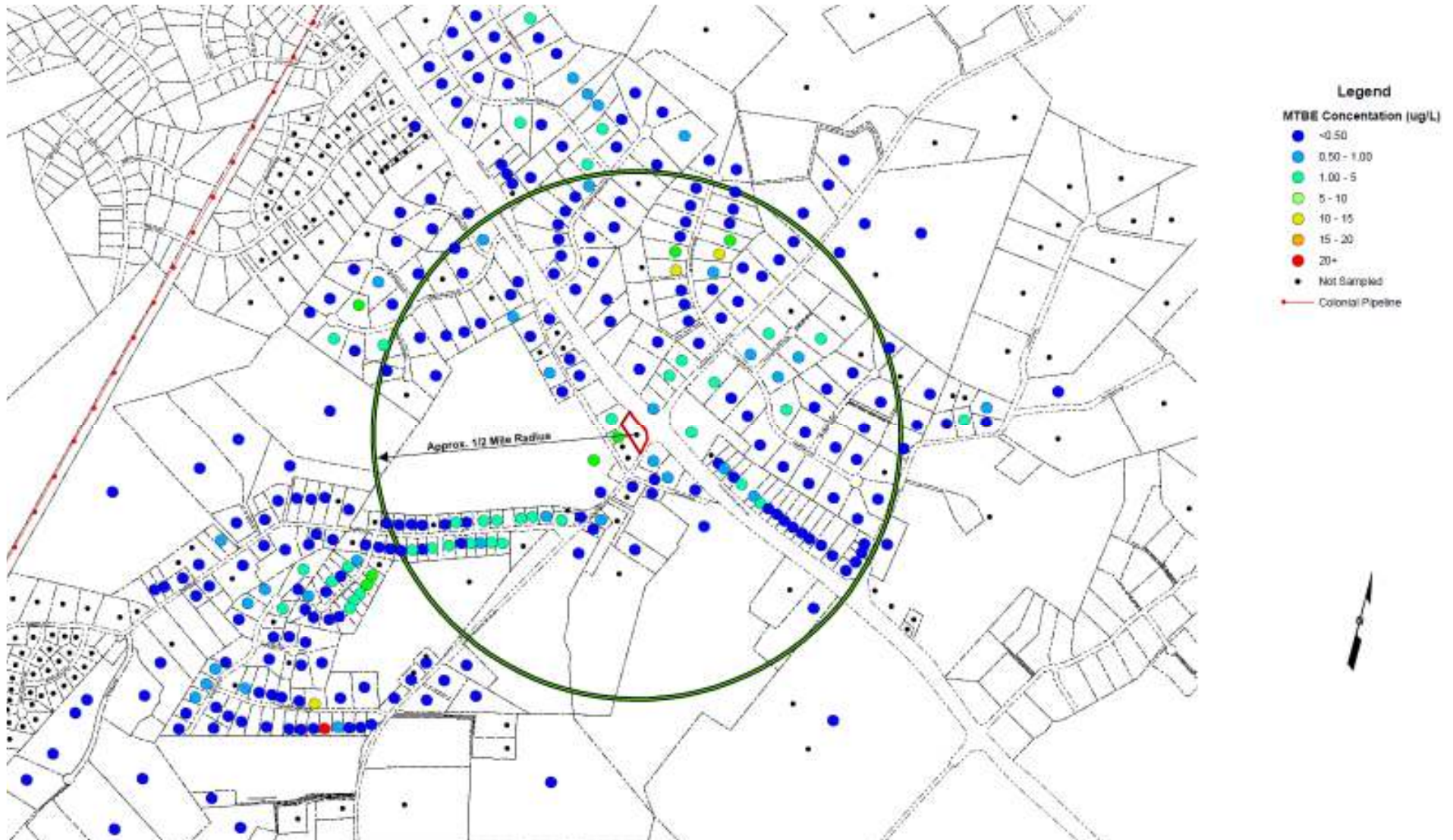
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- Upper Crossroads Exxon
  - Exxon-Maintained POETs
  - Domestic Well Sampling
  - Regional Monitoring Well Network Sampling
  - Former Exxon Station
- Fallston 7-Eleven
- Fallston Service Center





# Upper Crossroads Exxon





# Upper Crossroads Exxon

- Exxon-Maintained POET Systems
  - MDE approved a reduction from 43 systems to 11 systems during the 2<sup>nd</sup> quarter 2009
  - 10 systems are sampled quarterly and 1 is sampled monthly
  - Since January 2009,
    - 2 homes have had MTBE concentrations over 20 ppb
    - 5 homes have been below 10 ppb





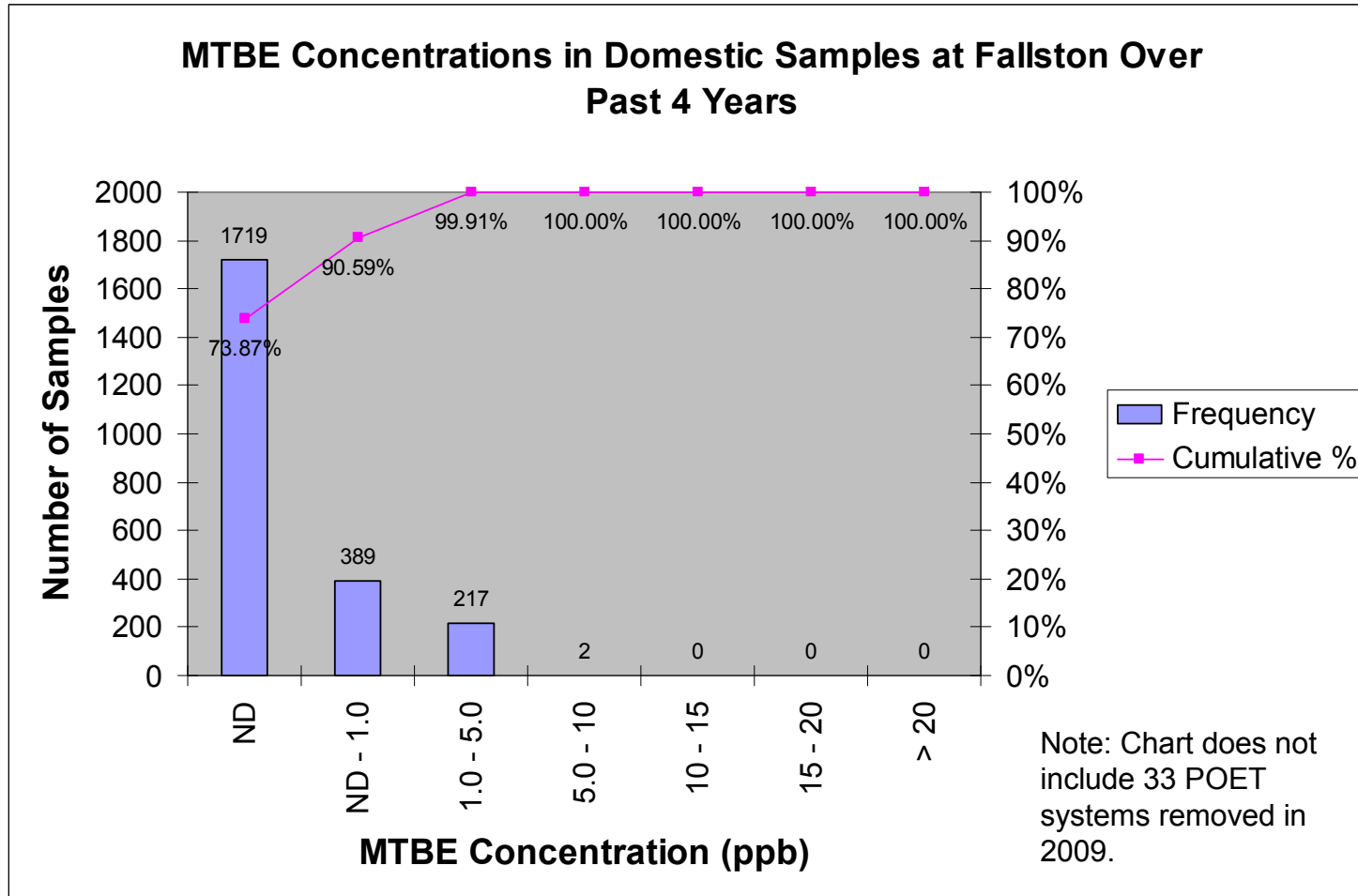
# Upper Crossroads Exxon

- Domestic Well Sampling
  - 339 locations are sampled semi-annually
  - 2,327 samples collected over the past 4 years
  - There have been 0 samples with MTBE over 10 ppb in these wells (not including the 33 homes that Exxon is no longer maintaining POETs for)



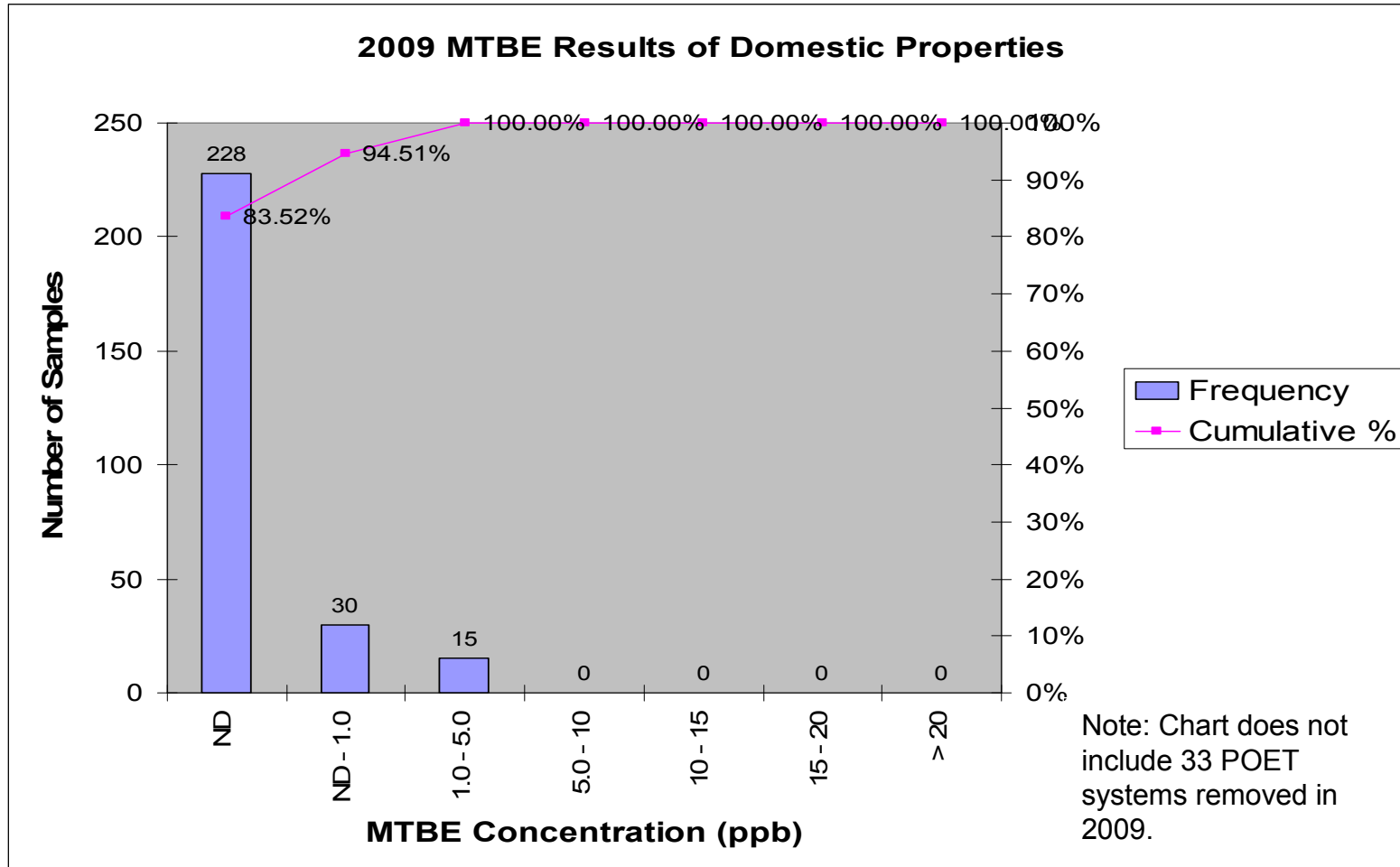


# Upper Crossroads Exxon





# Upper Crossroads Exxon





# Upper Crossroads Exxon

- Regional Monitoring Well Network
  - Sampling conducted in August 2009 detected MTBE in only 2 FLUTE well locations within the RMWN (MDE-9AD & MDE-9CD)
  - No detections above 10 ppb within the RMWN since September 2008 (MDE-9CD)





**Legend**

- RMWN Well
- Station Site Boundary



# Upper Crossroads Exxon

- Former Station Property
  - MDE met with Exxon on October 21<sup>st</sup> to discuss remedial path forward
  - A 1 year shutdown of the system is just about complete with no rebound of MTBE concentrations
  - MDE expects to receive a proposal to permanently shutdown the remediation system
  - Exxon will continue to maintain POETs and conduct routine monitoring of domestic wells, site wells, and RMWN





# Fallston 7-Eleven

- Fall 2008 – Full site upgrade completed
  - New state of the art tanks installed
  - Old tanks and approx. 623 tons of soil removed
- July 2009 – Bio-augmentation Pilot Test
- October 2009 – Bio-Augmentation CAP received





# Fallston Service Center

- Summer 2006 – All USTs removed from this location
- March 2007 – Department entered into a consent agreement
  - Semi-annual sampling of monitoring wells network (8 wells)
  - Operation and maintenance of GAC at Fallston Pre K/ Church
- January 2009 – Additional MTBE impact discovered, Fallston Service Center designated responsible





# For More Information

- Website:  
[http://www.mde.state.md.us/Programs/LandPrograms/Oil\\_Control/RemediationSites/index.asp](http://www.mde.state.md.us/Programs/LandPrograms/Oil_Control/RemediationSites/index.asp)
- Email:
  - [sbull@mde.state.md.us](mailto:sbull@mde.state.md.us)
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