



Department of the Environment

Update on Former Jacksonville Exxon
Case No. 2006-0303-BA
14258 Jarrettsville Pike, Phoenix, MD

Water Appropriations Hearing /
Community Meeting

November 10, 2010





Introductions

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Case Information

- MDE Website
 - Major reports, work plans, and MDE responses
 - http://www.mde.state.md.us/programs/Land/OilControl/RemediationSites/Pages/Programs/LandPrograms/Oil_Control/RemediationSites/index.aspx





Presentations

- Posted to the website
 - MDE Update
 - ExxonMobil Water Appropriation Hearing





Site Overview

- Due to geology, remediation efforts run mainly northeast to southwest
- Over 220 monitoring / recovery wells
- Treated groundwater
 - Over 63 million gallons treated and discharged under permit
 - Southwest discharges to a tributary to the Green Branch
 - Northeast discharges to a tributary of Sawmill Creek

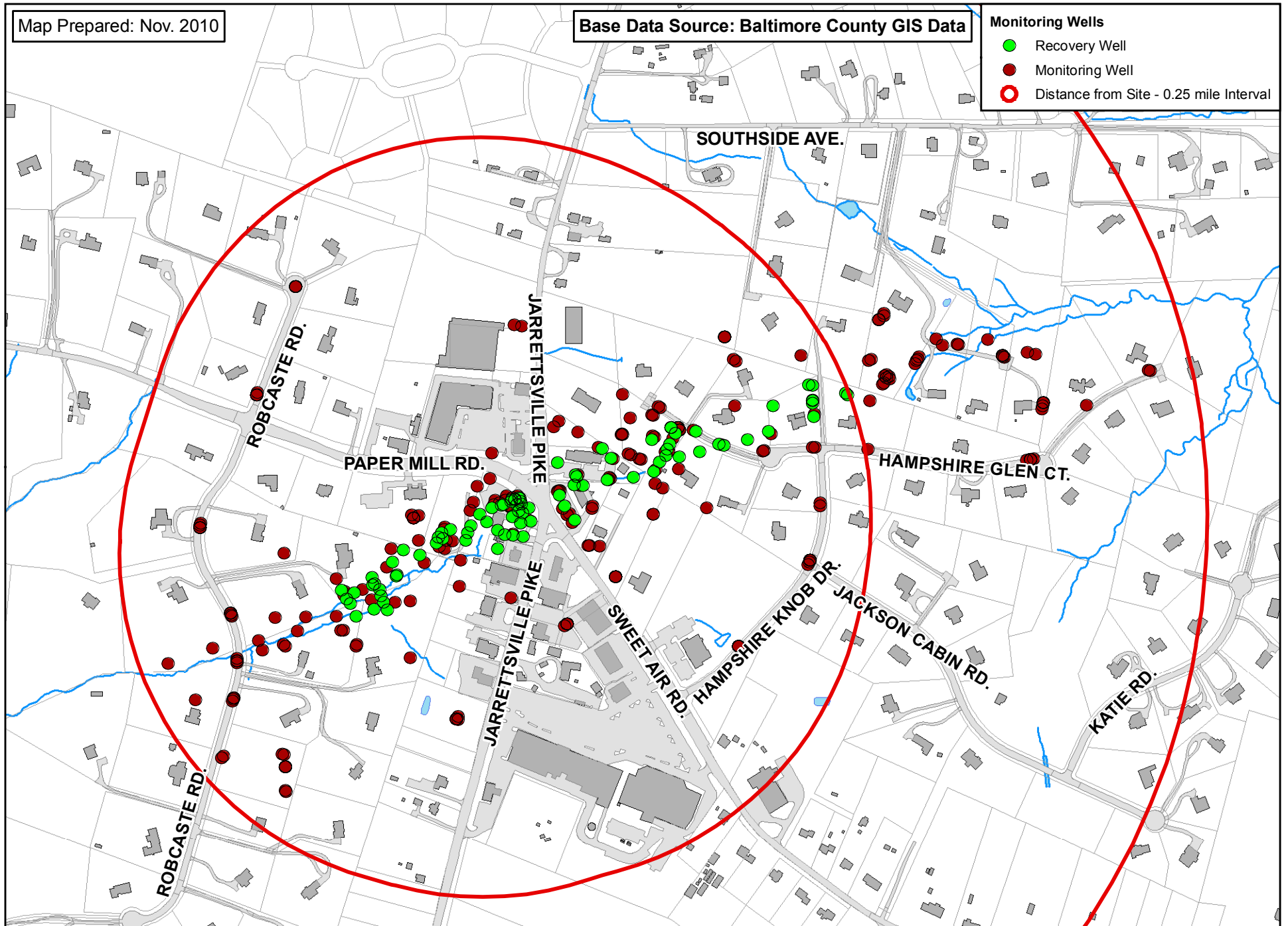


Map Prepared: Nov. 2010

Base Data Source: Baltimore County GIS Data

Monitoring Wells

- Recovery Well
- Monitoring Well
- Distance from Site - 0.25 mile Interval





Site Overview, cont.

- No product (or LPH) has been detected since May 2008
- General decline in concentrations from monitoring wells across the study area
- 14 POET carbon systems installed and maintained by ExxonMobil
 - One has influent concentrations above action levels/standards



Map Prepared: Nov. 2010

Base Data Source: Baltimore County GIS Data

- POET Location**
- ExxonMobil Currently Installed
 - ▲ Installed By Others
 - Installed POET Location
 - Distance from Site - 0.25 mile Interval





Remediation – SW

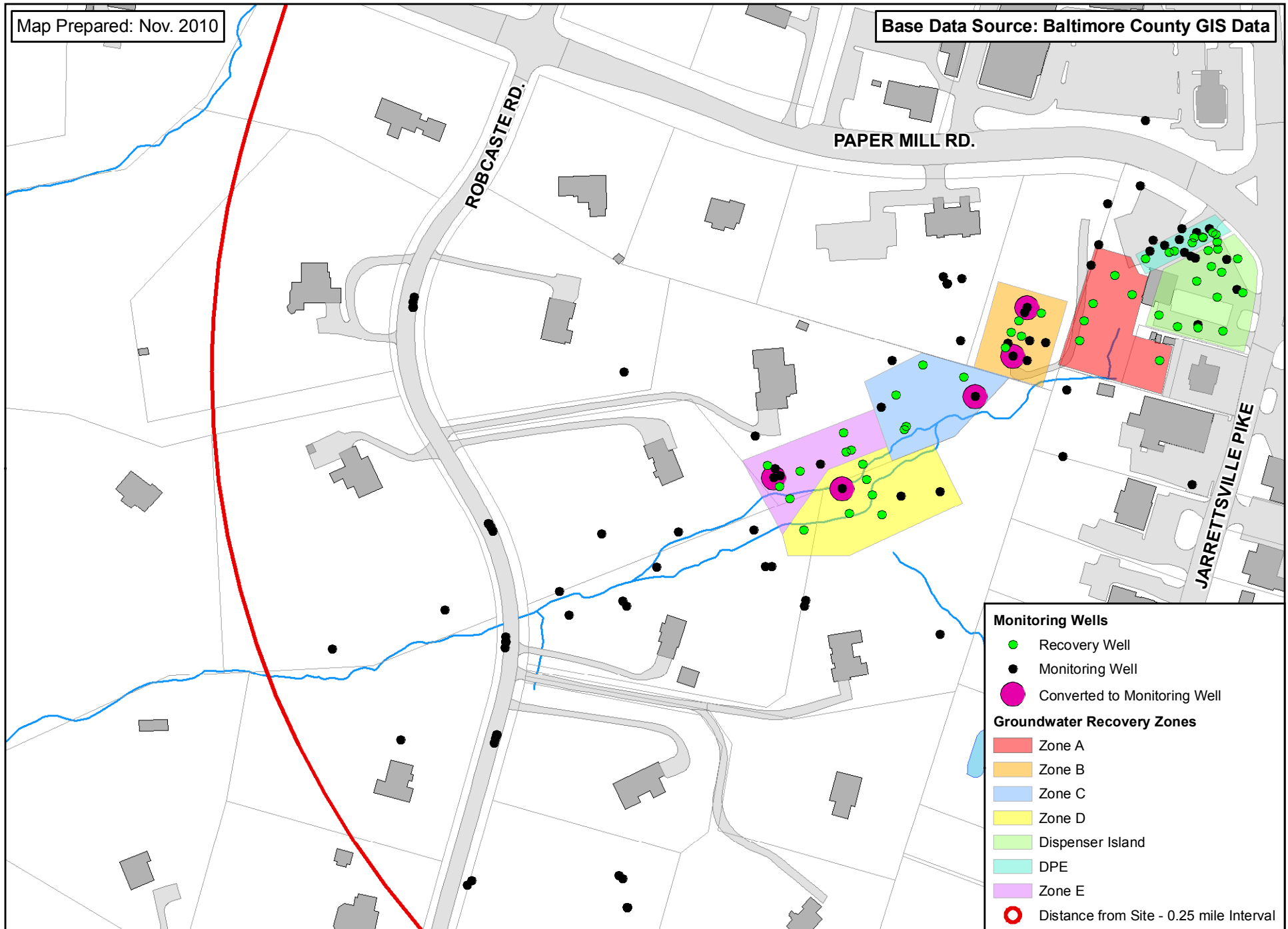
- 48 groundwater recovery wells
- Contaminated groundwater extraction continues from former station
- Remaining zones have been below action levels for a year or more
- Shutting down select groundwater recovery wells
 - 6 wells sequentially shutdown with no rebound noted
- Shutdown furthest SW soil vapor recovery system in fourth quarter 2009
 - No rebound detected

Based on Second Quarter 2010 Report



Map Prepared: Nov. 2010

Base Data Source: Baltimore County GIS Data



Monitoring Wells

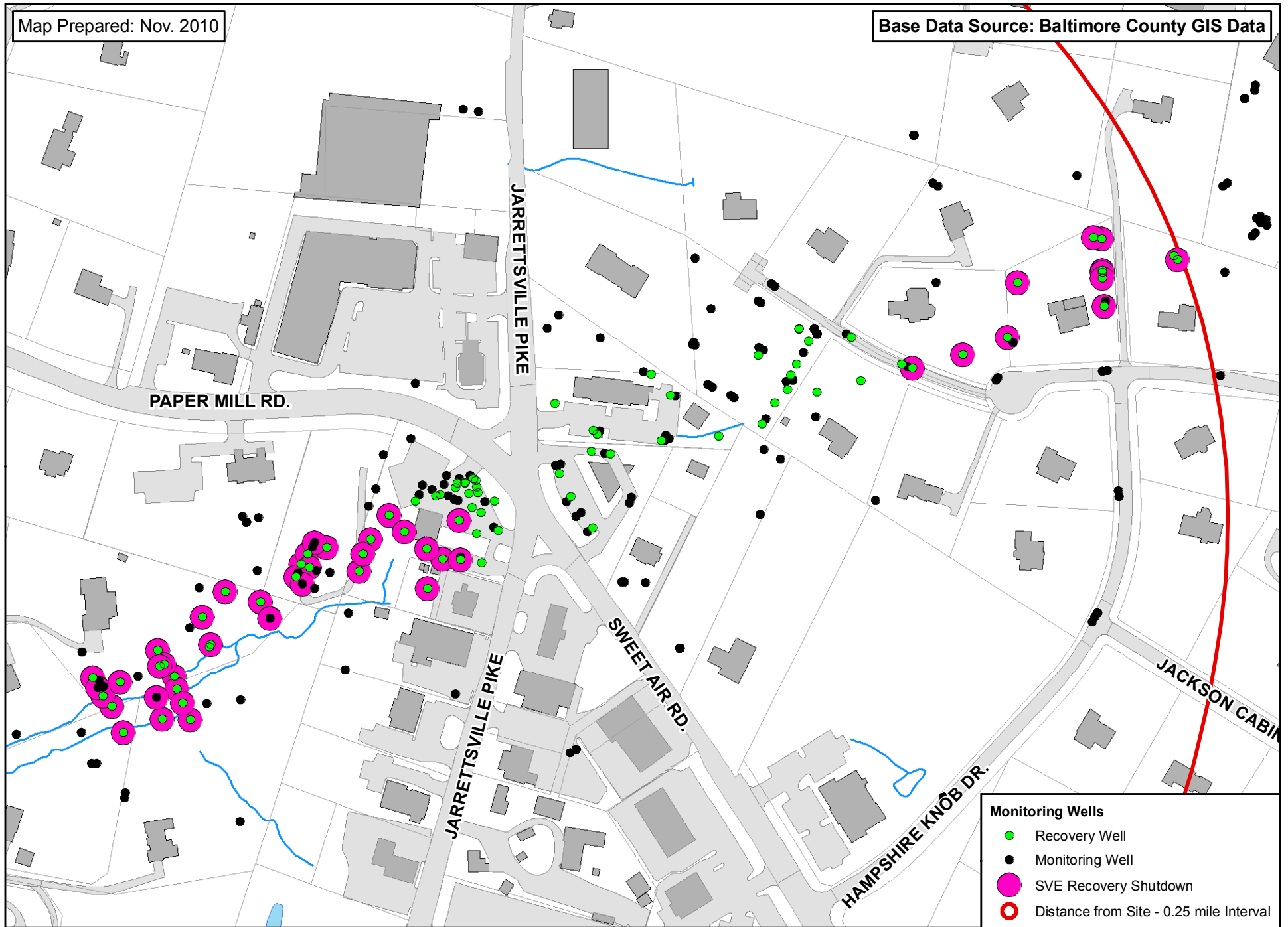
- Recovery Well
- Monitoring Well
- Converted to Monitoring Well

Groundwater Recovery Zones

- Zone A
- Zone B
- Zone C
- Zone D
- Dispenser Island
- DPE
- Zone E
- Distance from Site - 0.25 mile Interval

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Monitoring Wells

- Recovery Well
- Monitoring Well
- SVE Recovery Shutdown
- Distance from Site - 0.25 mile Interval



Remediation – NE

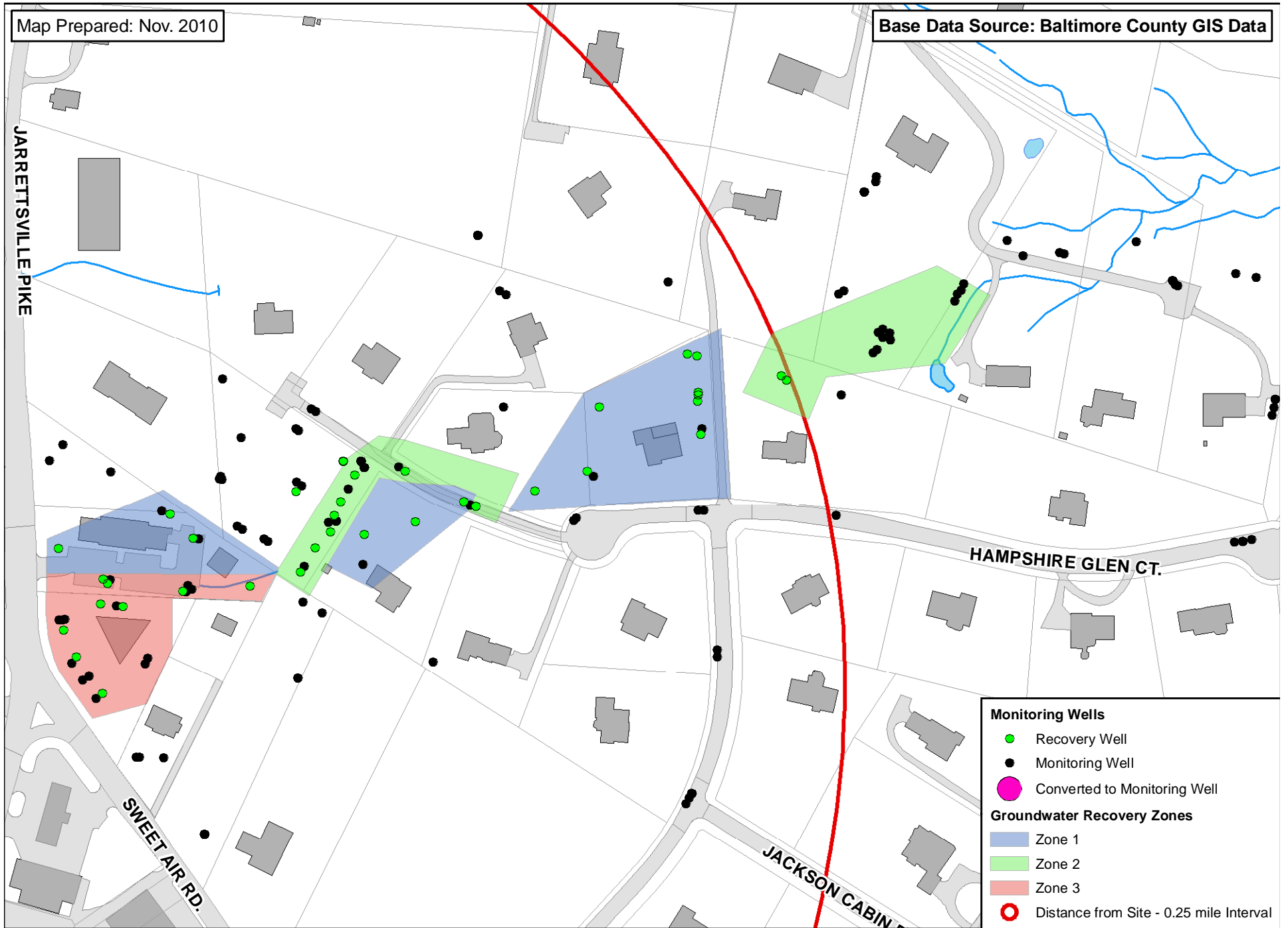
- 36 groundwater recovery wells
- Continued influent concentration declines in zones NE02 and NE03
- Recent additions of groundwater pumping wells in zone NE01 have increased influent concentrations
 - MW-54
- Shutdown MW-78R and MW-100B (furthest NE recovery wells) in fourth quarter 2009
 - No rebound detected in these wells or adjacent wells
- Shutdown furthest NE soil vapor recovery system in fourth quarter 2009
 - No rebound detected in wells or soil vapor samples

Based on Second Quarter 2010 Report



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Monitoring Wells

- Recovery Well
- Monitoring Well
- Converted to Monitoring Well

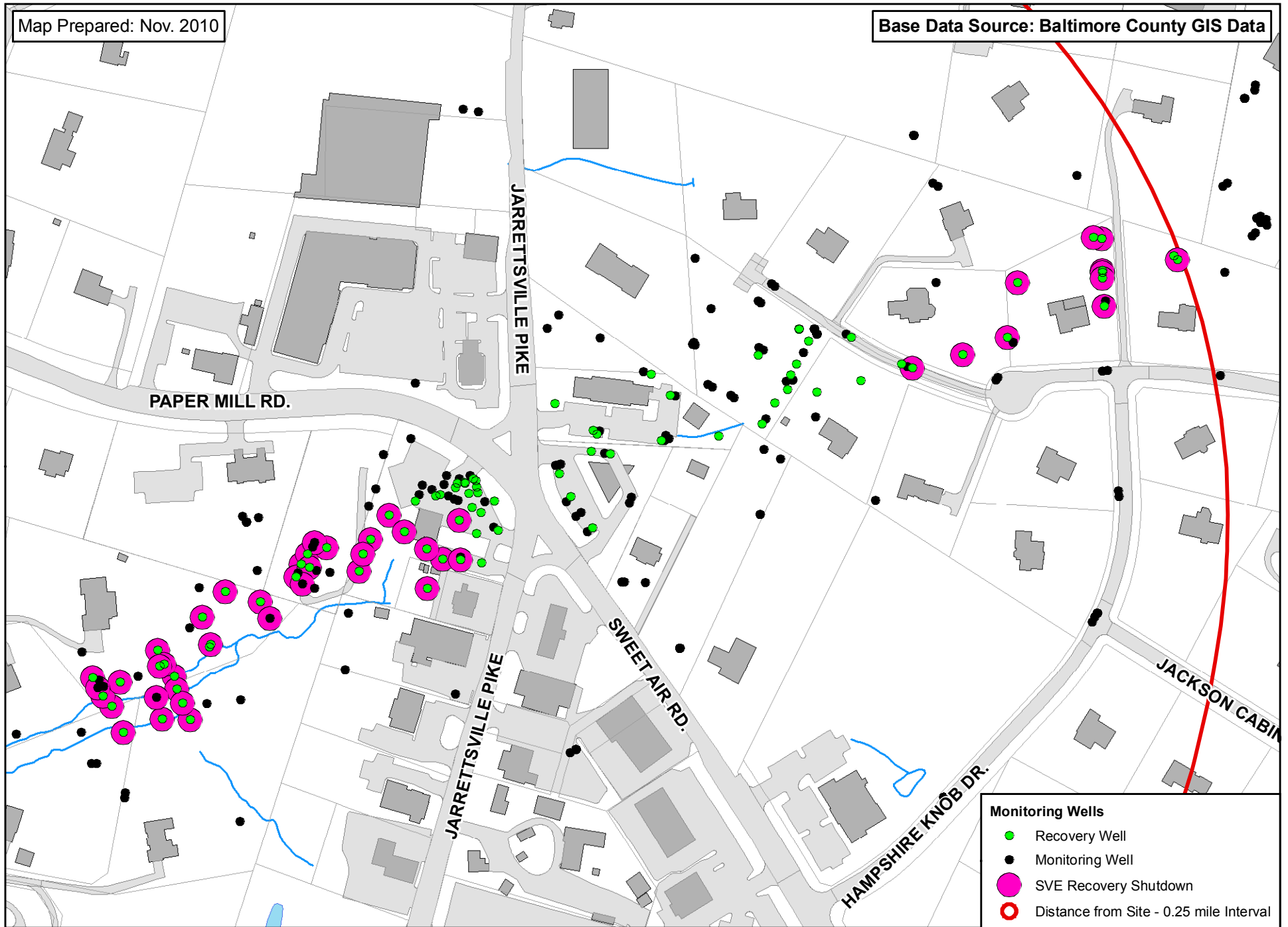
Groundwater Recovery Zones

- Zone 1
- Zone 2
- Zone 3

○ Distance from Site - 0.25 mile Interval

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Monitoring Wells

- Recovery Well
- Monitoring Well
- SVE Recovery Shutdown
- Distance from Site - 0.25 mile Interval



Near NE Site Assessment and Remediation

- Increasing concentrations in 3506 Hampshire Glen Ct. potable well and 14307 Jarrettsville Pike potable well began in mid-2008
- MDE initiated the investigation in August 2008 in response to the increasing levels
- Recovery wells brought 3506 HGC potable well concentrations below action levels/standards in June 2009





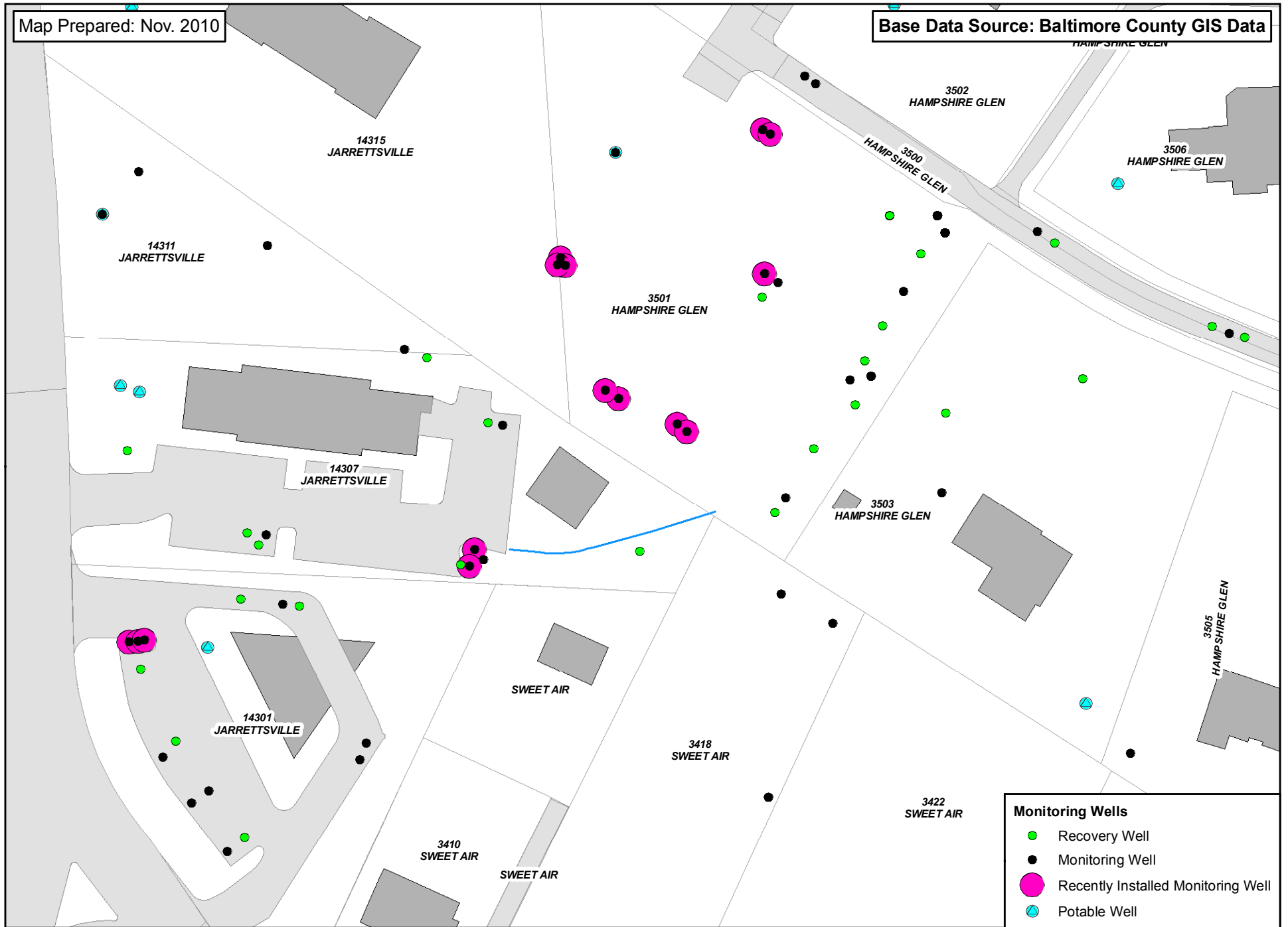
Near NE Site Assessment and Remediation, cont.

- Levels in monitoring and recovery wells in the near NE area required additional assessment
- Additional site assessment is being conducted on 3501 HGC, and 14301 and 14307 Jarrettsville Pike
- Based on data collected to date, it appears that elevated levels of contaminants are confined to this area and have not impacted additional potable wells
- Assessment activities are ongoing



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Monitoring Wells

- Recovery Well
- Monitoring Well
- Recently Installed Monitoring Well
- ▲ Potable Well



Bottled Water and Sampling Reconsideration

- Conducted at the request of the Governor
- Secretary formed an independent panel
- Review is ongoing
- During review, ExxonMobil continues to sample all homes and provide bottled water
- For more information contact Kathryn Bishop
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Further Information

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