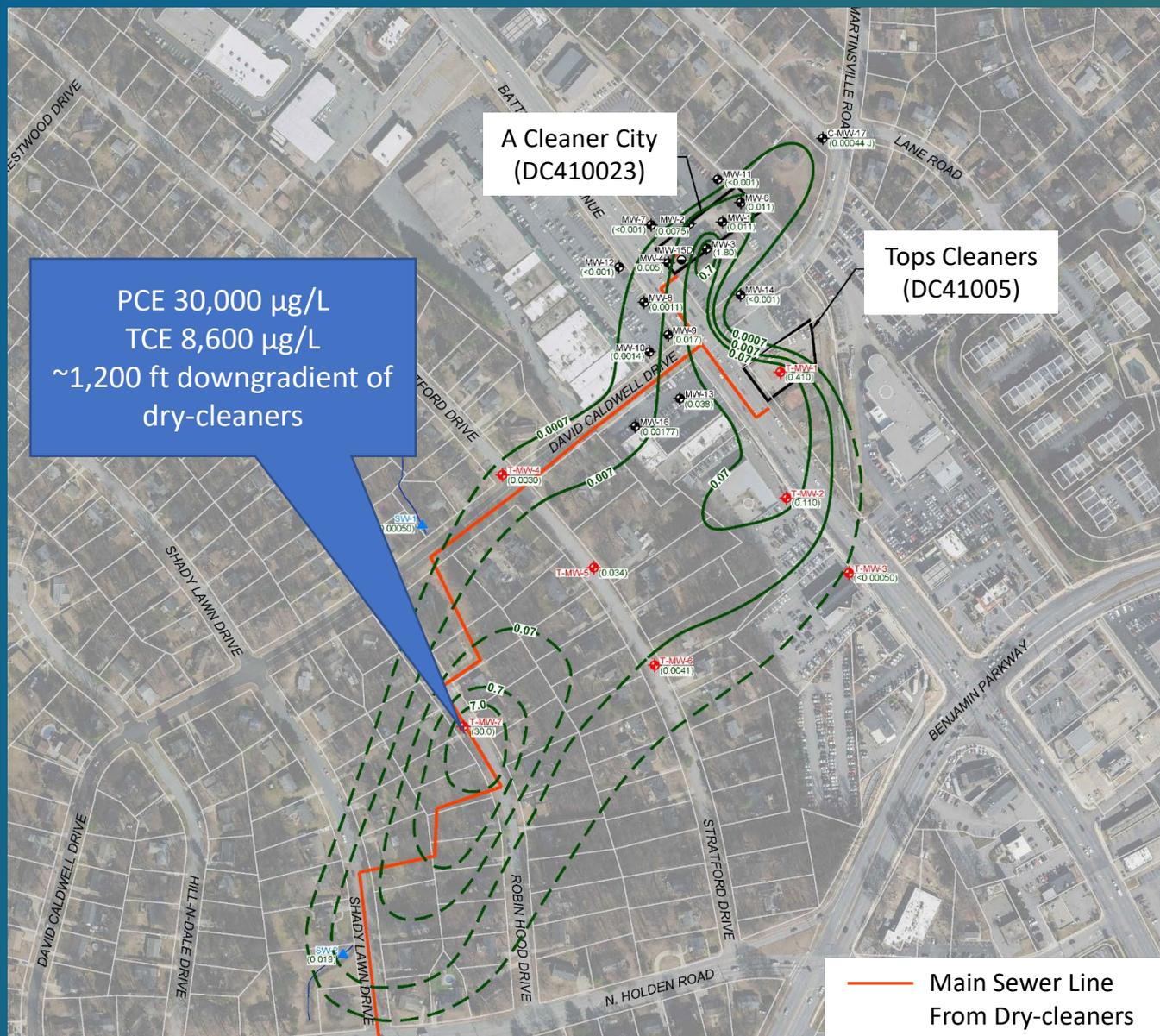


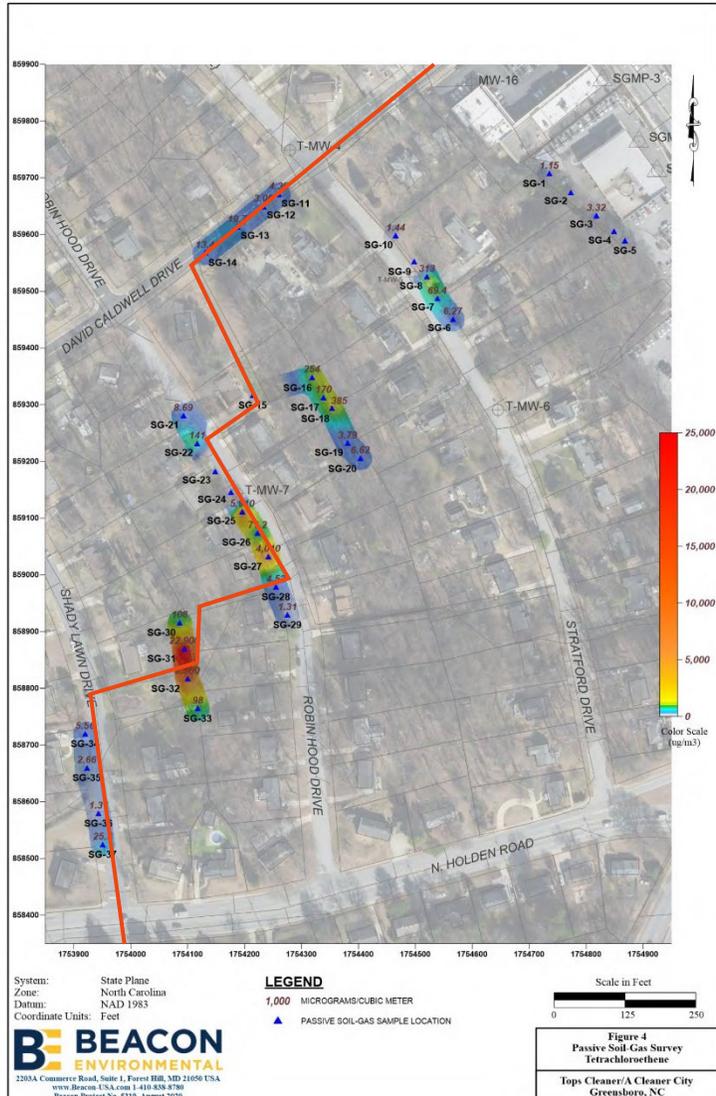
# Case Study – A Cleaner City/Tops Cleaners



- Two dry-cleaning solvent releases with comingled plume
- Sampling of downgradient delineation well indicated unexpectedly elevated concentrations
- Sewer line release suspected

# Case Study – A Cleaner City/Tops Cleaners

- Beacon passive soil gas survey performed which confirmed elevated soil gas concentrations in the area of sewer lines
- Crawlspace or indoor air sampling performed in 16 residences
- Results indicated TCE at concentrations above the Residential Immediate Action Level (IAL) in two residences (2.6 to 14  $\mu\text{g}/\text{m}^3$  versus IAL of 2.1  $\mu\text{g}/\text{m}^3$ )

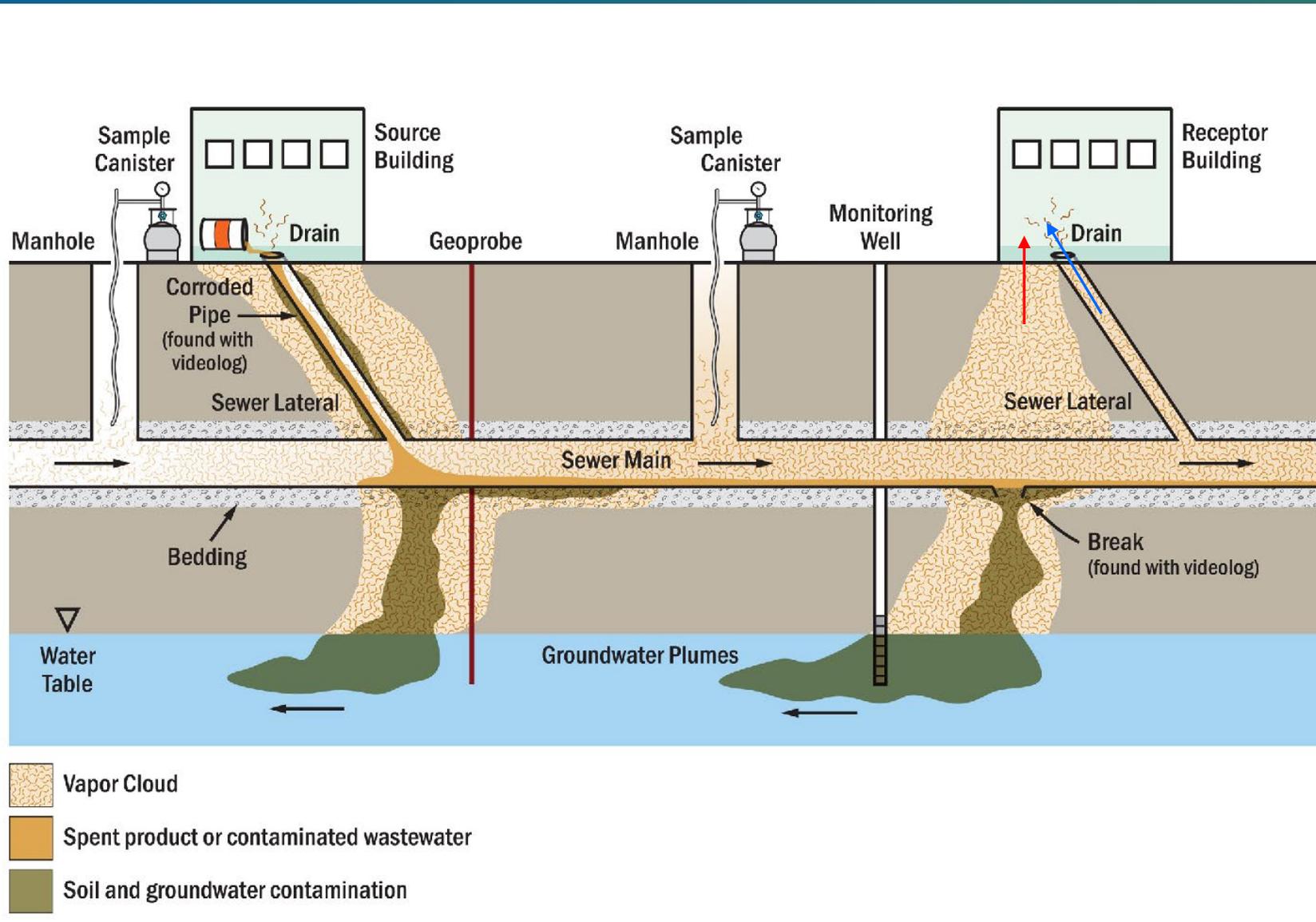


# Case Study – A Cleaner City/Tops Cleaners

- Risk communication was challenging due to Covid-19 pandemic
- One resident was pregnant and moved out of the house until mitigation was complete
- Initial mitigation measures – fans in crawl space and air purification units (APUs) indoors
- Permanent mitigation measure – sub-membrane depressurization systems equipped with telemetry units to notify DSCA Program in the event of a system shutdown



# Case Study – A Cleaner City/Tops Cleaners



- Initial phase of investigation focused on evaluation of VI from impacted soil and groundwater attributed to a sewer line break (red arrow), majority of samples collected from crawlspaces.
- Current phase of investigation focused on evaluation of VI via sewer lines entering residences (blue arrow). Recent samples collected from sewer lines indicated TCE concentrations of up to  $275 \mu\text{g}/\text{m}^3$ .