

# Sub-Slab Soil Gas and Indoor Air Sampling

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# Overview of Sampling Process

- Sign access agreement
- Schedule sampling
- Sampling dependent on home construction
- Steps in sample process
  - Building survey
  - Sampling procedures

# Scheduling Work



- Must receive signed access agreement
- Work Schedule
  - Visit 1 - 90 minutes- building survey and sample port Installation
  - Visit 2 –30 minutes- start indoor air sample, minimum 24-hrs after visit 1
  - Visit 3 (optional) – 10-minutes- check on indoor air sample half way into sample period
  - Visit 4 – 60-minutes- retrieve indoor air sample, collect sub-slab sample

# Building Survey

- Assess condition of floor slab, basement walls
- Look for drains, sumps, other pathways
- Conduct product inventory
  - Identify background sources (heavy cleaners and chemicals)
  - Use instrument (PID) to locate chemicals
  - Remove products 24-hours before sampling

# Document Products and Their Ingredients



# Sub-Slab Soil Gas Installation and Sampling



- Staff and homeowner will work together to find suitable location
  - Drill 1 ½” hole; through slab and 2 inches into subsurface
  - Cement in sample port
  - Small brass visible when finished
- Wait 24-hours prior to sampling
- Helium leak test to ensure integrity of installation
- Collect sample, 30-minutes



# Sub-slab Sample Collection and Leak Testing



# Indoor Air Sampling



- Remove chemicals / cleaners 24-hours prior to sampling
- Place canister at breathing height (3-5 feet)
- Do not disturb canister during sampling
- Do not smoke, paint, use heavy cleaners, bring in dry cleaning before or during sampling
- Allow sample to collect for 24-hours

# What to Expect During Sampling



- Staff will minimize disturbance to your home
- Sample location picked with your input
- Sampling can occur around your schedule, multiple visits necessary – timing between visits critical
- Field team of two professional staff at all times
- SUMMA canisters are odor and noise free
- Results available in about one month

# Contacts for Questions?

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