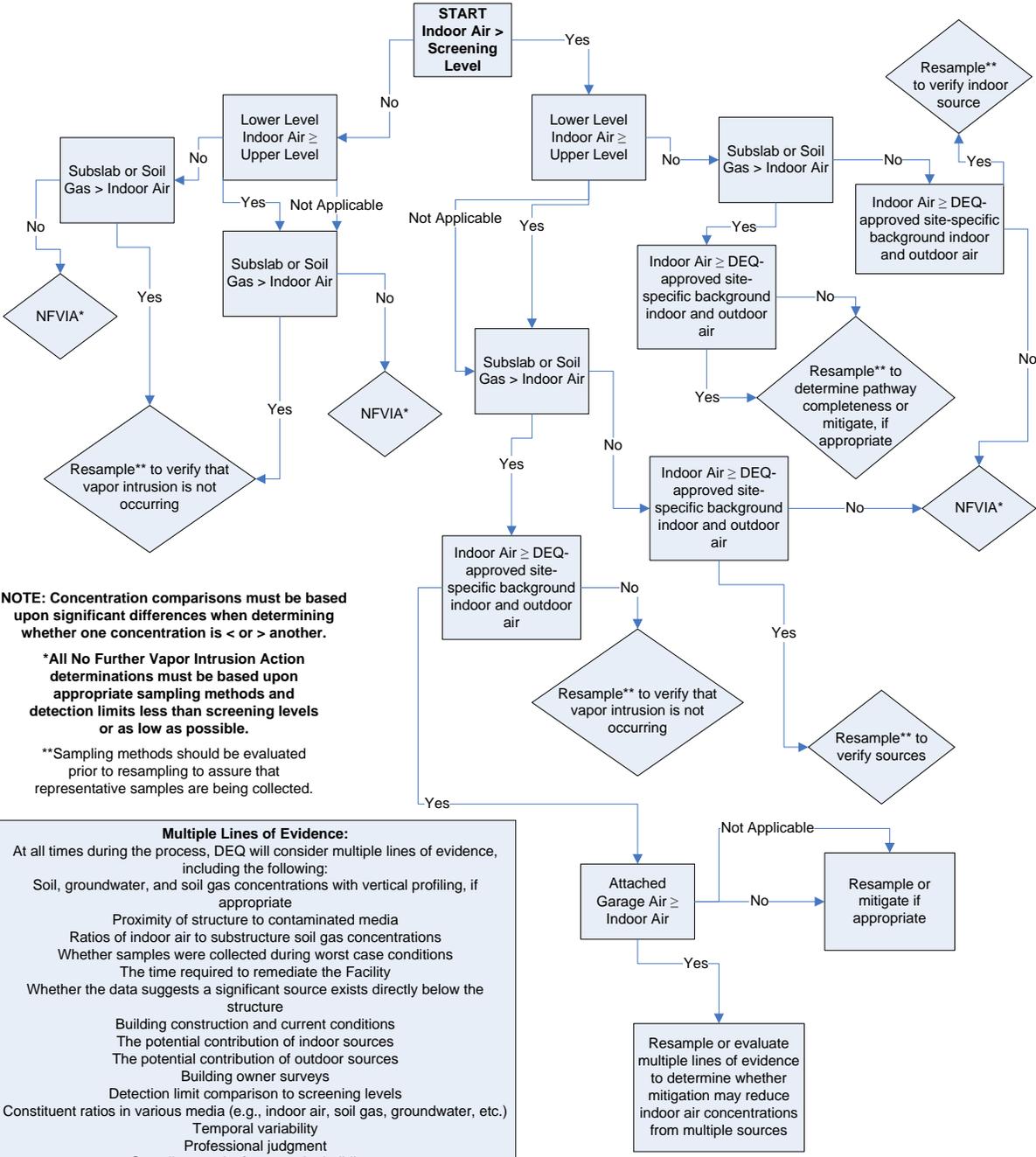


APPENDIX B
FLOW CHARTS

First Round of Samples DEQ Vapor Intrusion General Decision-Making Process 12/8/09



NOTE: Concentration comparisons must be based upon significant differences when determining whether one concentration is < or > another.

***All No Further Vapor Intrusion Action determinations must be based upon appropriate sampling methods and detection limits less than screening levels or as low as possible.**

****Sampling methods should be evaluated prior to resampling to assure that representative samples are being collected.**

Multiple Lines of Evidence:
At all times during the process, DEQ will consider multiple lines of evidence, including the following:

- Soil, groundwater, and soil gas concentrations with vertical profiling, if appropriate
- Proximity of structure to contaminated media
- Ratios of indoor air to substructure soil gas concentrations
- Whether samples were collected during worst case conditions
- The time required to remediate the Facility
- Whether the data suggests a significant source exists directly below the structure
- Building construction and current conditions
- The potential contribution of indoor sources
- The potential contribution of outdoor sources
- Building owner surveys
- Detection limit comparison to screening levels
- Constituent ratios in various media (e.g., indoor air, soil gas, groundwater, etc.)
- Temporal variability
- Professional judgment
- Sampling results from nearby buildings

Note: Uncertainty will lead to conservative risk management decisions.

