

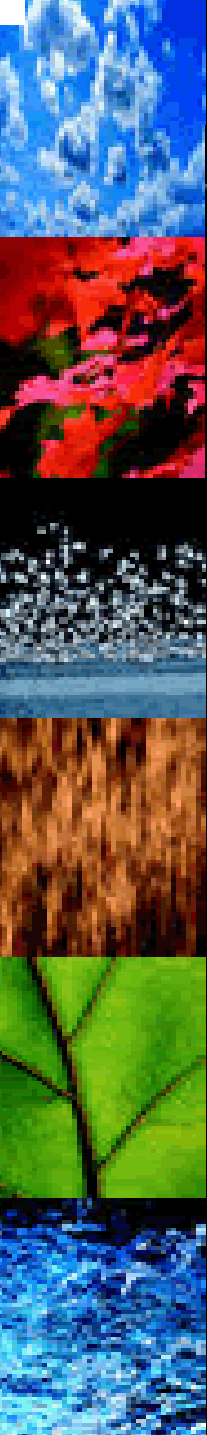


California Human Health Screening Levels:

Users Manual

Los Angeles Brownfields Conference

November 18, 2004



Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties



Purpose of Users Manual

- **OEHHA, State and Regional Boards, and DTSC collaborated on screening values**
- **Two sets of numbers:**
 - **Unrestricted land uses**
 - **Restricted, nonresidential land use**





Purpose of Users Manual

- Numbers need context
- How they are used is possibly more important than that they exist





Contents of Users Manual

- **Introduction**
- **Look-up Tables**
- **When to do site-specific risk assessments**
- **Discussion of other concerns (environmental and ecological)**
- **References**



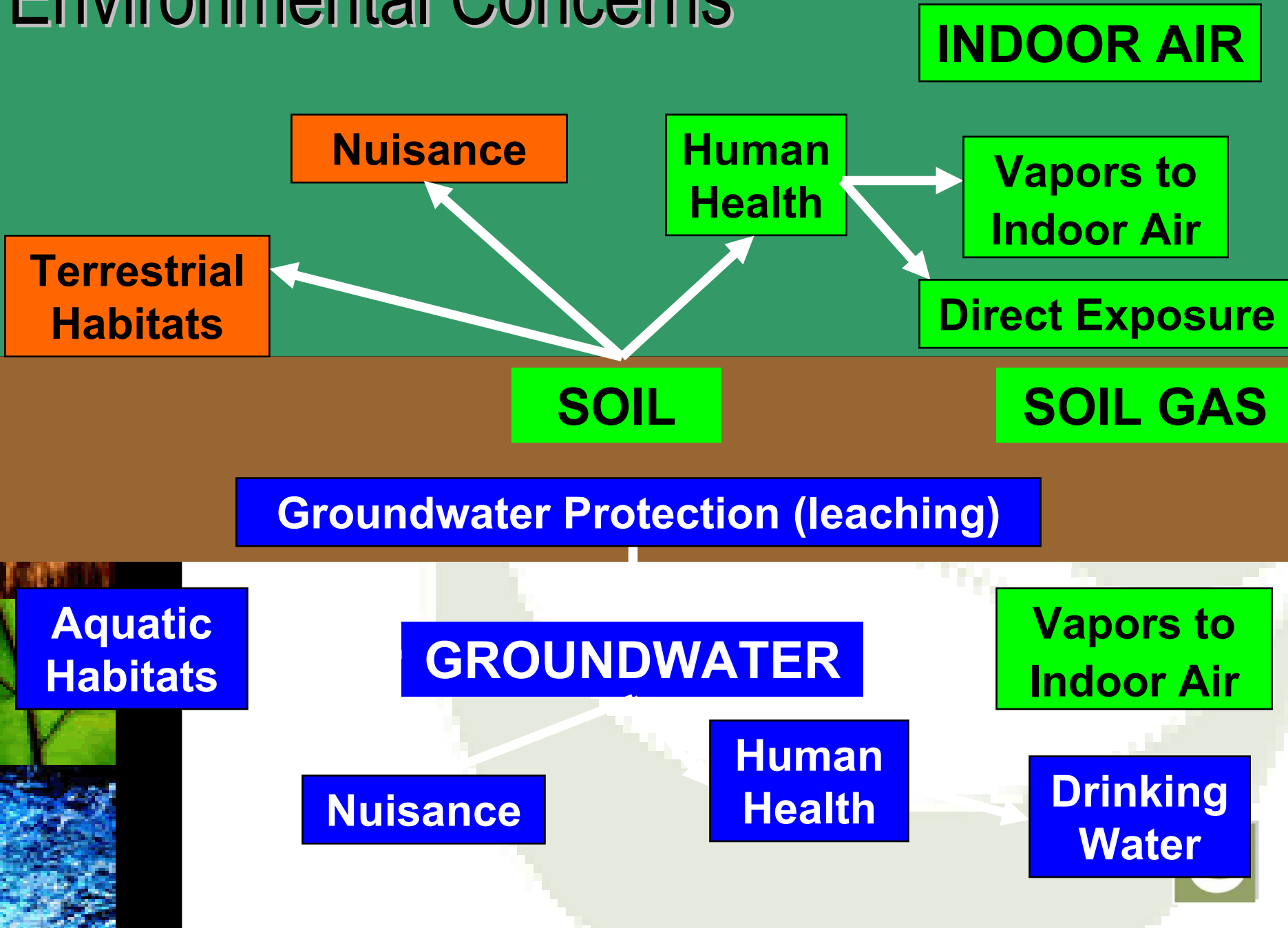


Introduction

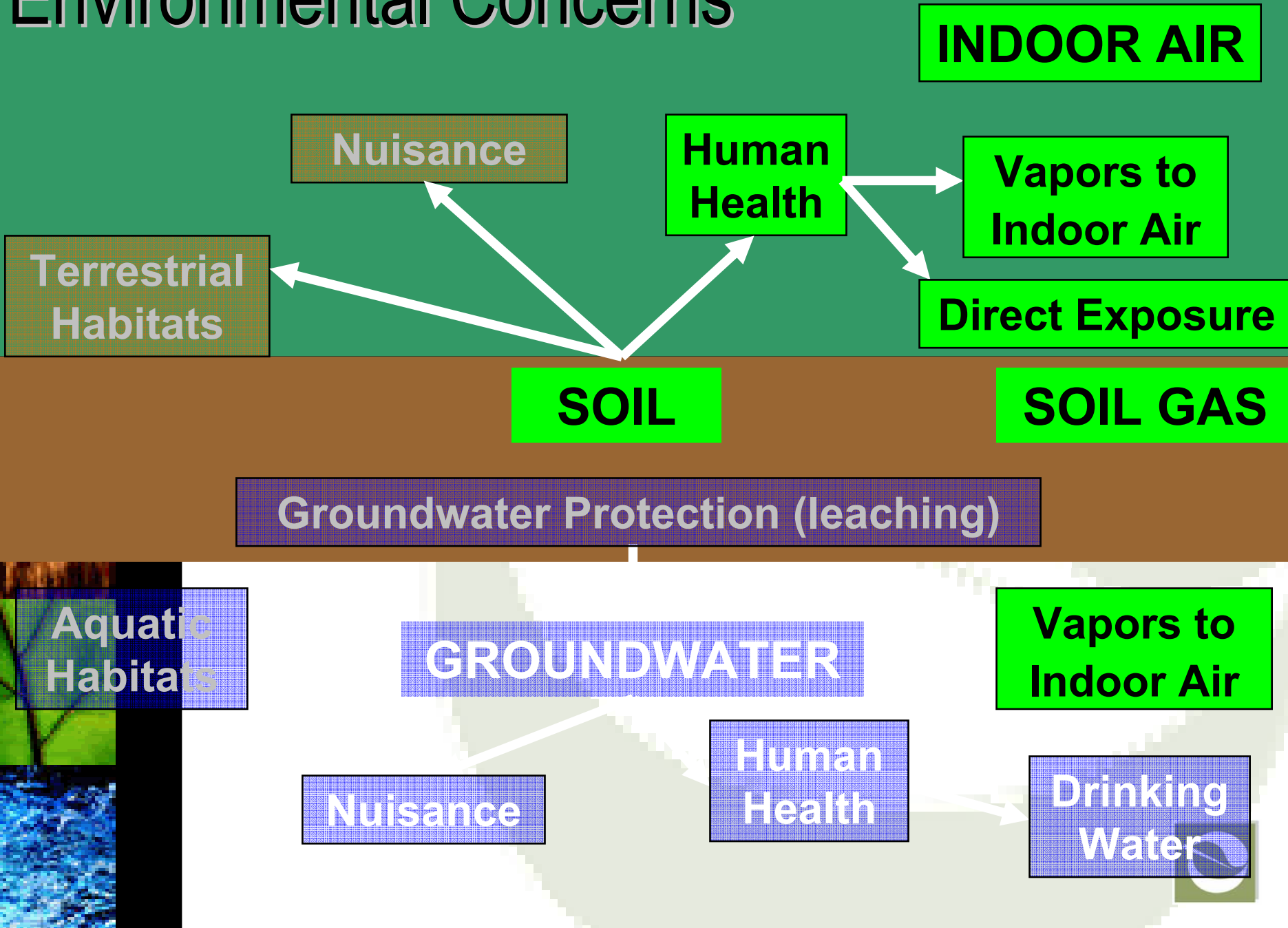
- Purpose of screening values
- Risk assessments – tiered approach
- What to do if you have chemicals not on the list
- Limitations of screening values



Environmental Concerns



Environmental Concerns





Look-Up Tables

- **Organization of tables**
- **Conceptual site models**
- **Using the look-up tables**
 - **Direct exposure to soils**
 - **Vapor intrusion/Indoor air exposure**





Special Considerations

- **Laboratory reporting limits v. measured concentrations**
- **Background concentrations**
- **Cumulative risk – multiple contaminants**
- **School sites**
- **CHHSLs v. cleanup numbers**





CHHSLs v. Site Specific Risk Assessment

- **Site considerations**
- **Site specific risk assessments**
 - **When appropriate**
 - **Site specific adjustments**
- **Baseline risk assessments**





Other Concerns

- CHHSLs to address human health risks only
- Some contaminants pose other risks
 - Threats to water quality (surface water and groundwater)
 - Threats to aquatic and terrestrial organisms
 - Nuisance concerns (odors, etc.) and/or resource degradation





Relationship to Other Values

- U.S.EPA Preliminary Remedial Goals (PRGs)(Region IX, other Regions)
- U.S.EPA Soil Screening Guidance
- San Francisco Regional Board Environmental Screening Levels
- City of Oakland Screening Levels (Los Angeles and other cities?)
- Hazardous Waste Levels
- TSCA – PCBs
- OSHA Permissible Exposure Limits





Next Steps

- **Finalize CHHSLs and Users Manual**
- **Three public workshops to be held throughout State**
 - **Discuss the screening numbers**
 - **Receive public comments**





Next Steps

- **State and Regional Boards discussing ways to incorporate environmental and water quality issues**
- **Revise CHHSLs as appropriate**
 - Update numbers
 - New chemicals

