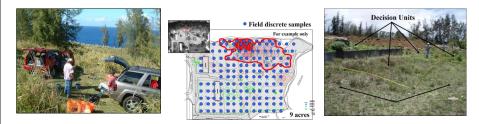
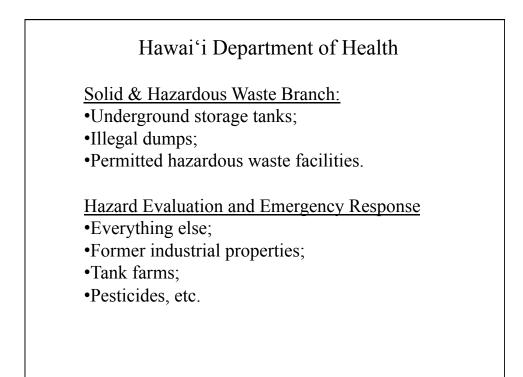
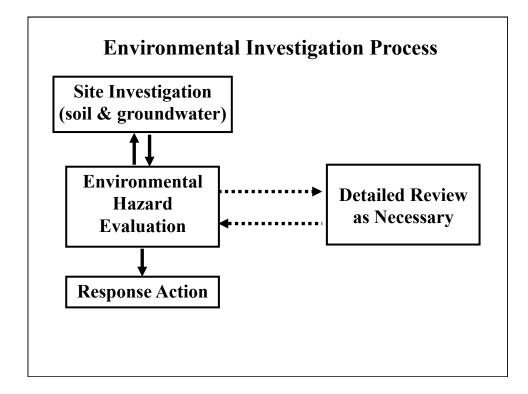
Environmental Investigation and Redevelopment of "Brownfield" Sites in Hawai'i



Roger Brewer (Senior Scientist - Honolulu)

Department of Health Hazard Evaluation & Emergency Response Brownfields Conference Kauai / Maui July 2018



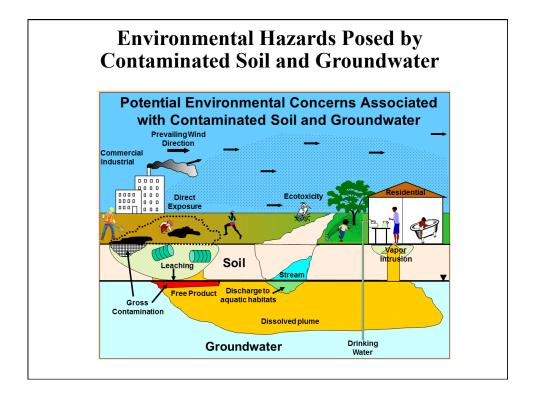


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HEER OFFICE TECHNICAL GUIDANCE MANUAL

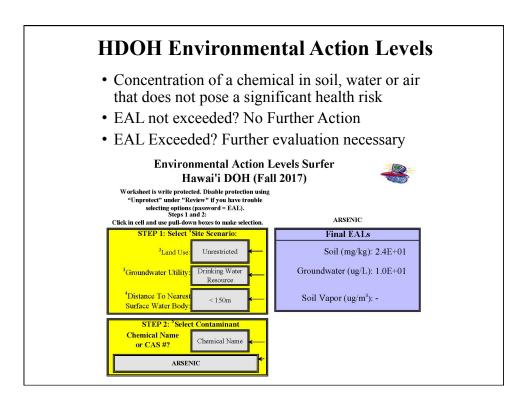
- Site history review;
- Investigation design;
- Sample collection and testing;
- Identification of potential environmental concerns;
- Remediation +/- long-term management.





Environmental Hazard Evaluation - Something for Everyone -

- Chemistry: What is it?
- Geology: Where is it?
- Physics: Where is it going?
- Toxicology: Can it harm me?
- Ecology: Can it harm ecological habitats?
- Combined: What are the concerns?
- Engineering: What can be done?
- Lawyers: Who's going to pay for it?



Ranking of Soil Contamination

Soil Category	Actions
Category A (Natural Background)	No action required
Category B (Trace Contamination)	Below levels of potential concernation no action required
Category C (Moderate Contamination)	Minimize exposure and develop long-term remediation plan
Category D (Heavy Contamination)	Cap soil and/or restrict land use and develop long-term remediation plan

