



**Kekaha Landfill Phase II
Vertical Expansion
Draft Environmental Assessment**

Department of Public Works
County of Kaua'i

July 22, 2013

Agenda

- ▶ **Purpose of this meeting:**

- Provide comments on the current Draft Environmental Assessment (EA) for the proposed Kekaha Landfill Phase II Vertical Expansion

- ▶ **Meeting Outline:**

- ▶ (1) Introduction and Background
 - ▶ (2) Project Overview
 - ▶ (3) Public Comments on the Draft EA

Introduction and Background

- ▶ The existing Kekaha Landfill is the only operating facility of its kind on Kaua‘i, and is approaching its design capacity.
- ▶ The currently permitted fill areas (i.e., Phase II, including Cell I) are expected to reach capacity as early as mid 2014.
- ▶ The lack of a permitted landfill would result in adverse effects on the environment and public health.

Background

- ▶ KLF Phase II initially permitted to 37 feet above msl in 1993
 - ▶ Vertical expansion to 60 feet in 1998
 - ▶ Vertical expansion to 85 feet in 2005
- ▶ Lateral expansion EA completed in 2007, proposing 3 cells:
 - ▶ **Cell 1-** in 2009 expanded Phase II. Was project to add 3.5 years, but now expected to add 4-5 years.
 - ▶ **Cell 2-** design and permitting in progress. May add up to 5 years.
 - ▶ **Cell 3-** not likely to be implemented
- ▶ New Landfill EIS in progress
 - ▶ Draft EIS expected Fall 2013
 - ▶ Final EIS expected Spring 2014

New/Future Expanded Diversion Programs

- ▶ The County is committed to maximizing diversion opportunities on Kaua‘i
- ▶ Diversion projects include:
 - ▶ Monthly Electronic Collection Program (Current)
 - ▶ HHW Collection (8/10-11/13)
 - ▶ Diversion Ordinances (for approval 2013, effective 2015):
 - ▶ Commercial Recycling Ordinance
 - ▶ Construction and Demolition Debris Ordinance
 - ▶ PAYT (2015) “Pay as You Throw”
 - ▶ MRF (2016) “Material Recovery Facility”
 - ▶ Curbside Recycling Program (2016)

For questions about diversion efforts, please contact County Recycling Office: 241-4837

Vertical Expansion EA Overview

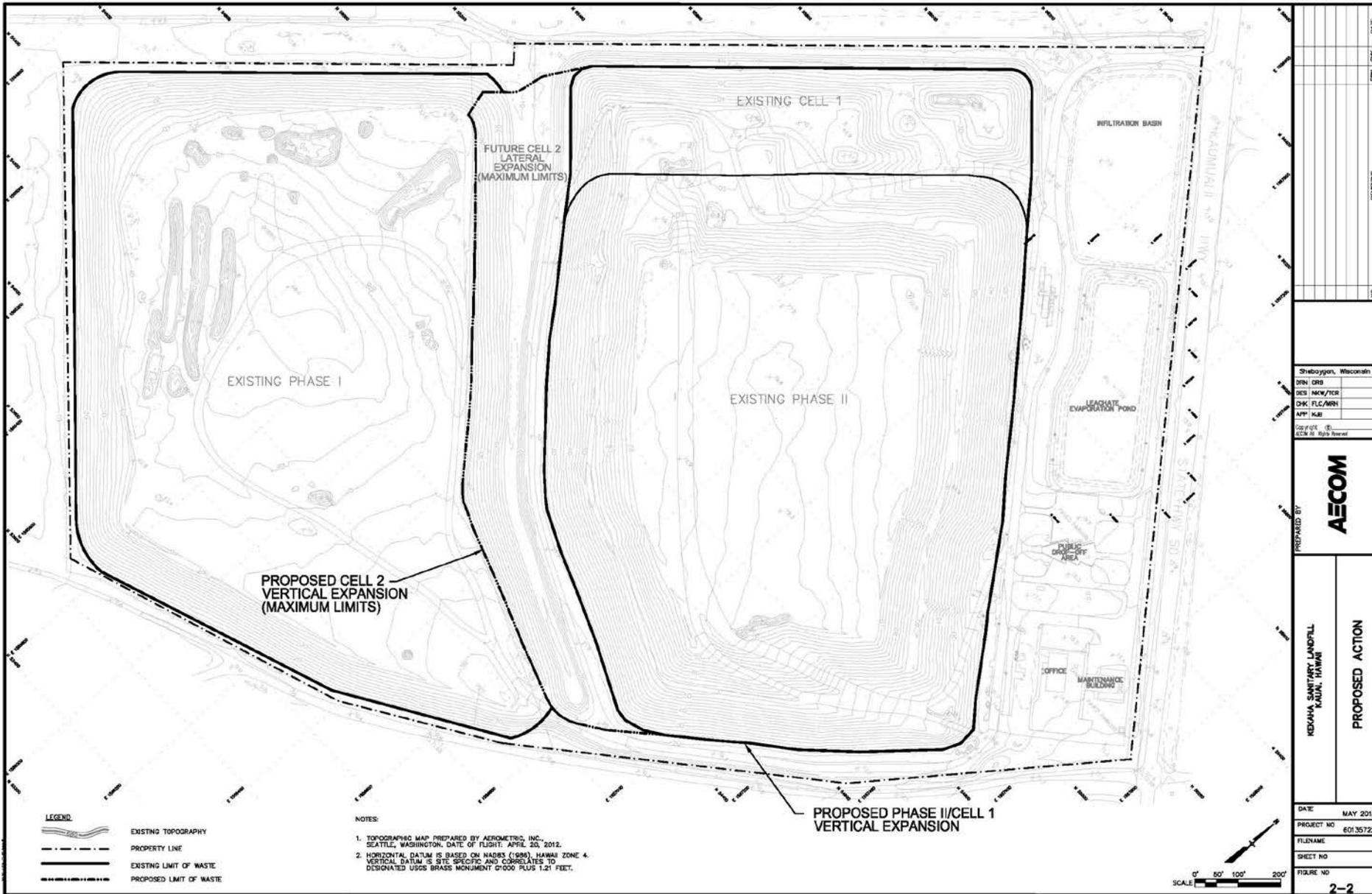
State of Hawaii Environmental Assessment

(EA): to identify and address potential environmental impacts of the proposed action.

- The goal of this meeting is to discuss the Draft EA and solicit comments on the document and to discuss environmental impacts that must be addressed.

Proposed Action

- ▶ Vertically expand Phase II to 120 feet above msl
 - ▶ Phase II/Cell 1
 - ▶ Future Cell 2
- ▶ Acreage will not change
 - ▶ Phase II & Cell 1- 38.4 acres
 - ▶ Cell 2- up to 6.4 acres
- ▶ Minimal (if any) construction required for the vertical expansions
- ▶ Surface water drainage features would be modified slightly (increased upwards) to accommodate the increase in sideslope lengths due to the proposed vertical increase.



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KEWAHA SANITARY LANDFILL
 KAUAI, HAWAII
PROPOSED ACTION

DATE: MAY 2013
 PROJECT NO: 60135722
 FILENAME:
 SHEET NO:
 FIGURE NO:
2-2

LEGEND

- EXISTING TOPOGRAPHY
- PROPERTY LINE
- EXISTING LIMIT OF WASTE
- PROPOSED LIMIT OF WASTE

NOTES:

1. TOPOGRAPHIC MAP PREPARED BY AEROMETRIC, INC., SEATTLE, WASHINGTON, DATE OF FLIGHT: APRIL 20, 2012.
2. HORIZONTAL DATUM IS BASED ON NAD83 (1986), HAWAII ZONE 4. VERTICAL DATUM IS SITE SPECIFIC AND CORRELATES TO DESIGNATED USGS BRASS MONUMENT 0'000 PLUS 1.21 FEET.

0' 50' 100' 200'
 SCALE

Proposed Action

- ▶ Phase II/Cell I Vertical Expansion is estimated to provide 662,000 cy of gross airspace - **adds 5.3 years.**
- ▶ Cell 2 Vertical Expansion may provide up to 317,000 cy of gross airspace - **adds up to 2.5 years.**
- ▶ At the current rate of landfilling, without the proposed action, the permitted KLF would reach capacity as early as mid 2014, leaving the island with no safe or cost effective means of disposing of MSW.

Alternatives

- ▶ **No-Action Alternative**
 - ▶ Phase II/Cell 1 and Cell 2 would not be vertically expanded
 - ▶ Island would have no safe place to dispose of solid waste

- ▶ **Siting and Constructing a New Landfill Facility**
 - ▶ In progress but cannot be accomplished in time

- ▶ **Excavation of Phase I to Construct a New Subtitle D Base Liner System**
 - ▶ Potential adverse environmental impacts: health and safety, odor and gas, contamination release, etc.

- ▶ **Off-Island Disposal**
 - ▶ Oahu will not accept all of Kauai's solid waste
 - ▶ Expensive



Resources

The following potential environmental impacts were evaluated:

- ▶ Air Quality
- ▶ Biological Resources
- ▶ Cultural Resources
- ▶ Geology and Soils
- ▶ Hazardous Materials and Hazardous Waste
- ▶ Land Use and Ownership
- ▶ Natural Hazards
- ▶ Noise
- ▶ Safety and Health
- ▶ Socioeconomics
- ▶ Transportation
- ▶ Utilities and Infrastructure
- ▶ Visual Resources
- ▶ Water Resources

While there is potential for impacts associated with construction and views, a Finding of No Significant Impact is anticipated.



Potential Impacts

- ▶ Impact to visual resources can be mitigated with landscaping and revegetation program
 - ▶ **Pre-Closure** – Improve views with entrance landscaping and by vegetating the finished slopes of the landfill
 - ▶ **Post-Closure** – Landscaping on the closed landfill can break the hard horizon views
- ▶ New height will not impact PMRF flight path

EA Process

- ▶ The County's EA will be based on Hawai'i Revised Statutes, Chapter 343, the State EIS Law.
- ▶ County of Kaua'i seeks public participation to help make this a better project.
 - ▶ The Final EA will include a section documenting public comments received and the County's responses, to ensure all relevant issues are considered and addressed.
 - ▶ County is committed to addressing community concerns.

EA Process

- ▶ The EA process will include publication of the following documents:
 - ▶ **DEA** – Draft EA, published July 8, 2013
 - ▶ 30 Day Public Comment Period, including one public meeting
 - ▶ **FEA** – Publication of Final EA
 - ▶ FEA anticipated by October 2013
- ▶ Draft EA is posted on the County's Website:
<http://www.kauai.gov/solidwaste>

EA Process

- ▶ Submit your comments!
- ▶ Fill out a comment form at tonight's meeting
- ▶ Mail comments to:

AECOM

**Re: Kekaha Landfill Vertical EA
1001 Bishop Street, Suite 1600
Honolulu, Hawaii 96813**

- ▶ Email comments to KekahaVerticalEA@aecom.com
- ▶ Comments must be postmarked by **August 7, 2013**

Relevant Public Comments on Draft EA



**Questions?
Comments ?**