



ENVIRONMENTAL WATER SOLUTIONS



Serving Hawaii, Guam, and the Pacific

www.enviniti.com

Agenda

- ◆ Company Background
- ◆ Environmental Products
- ◆ Projects
 - ◆ Residential
 - ◆ Subdivisions – Private & DHHL
 - ◆ Commercial
 - ◆ Government – U.S., State, and City & County

Company Background

- ◆ Enviniti LLC – Environmental Consulting Services
 - ◆ SBA 8(a) BD Participant
 - ◆ Environmental Services (Off-the-Grid Water & Wastewater)
 - ◆ Environmental Products (Off-the-Grid Water & Wastewater)
 - ◆ Engineering Services
 - ◆ Onsite Wastewater Installation
 - ◆ Onsite Wastewater Operation & Maintenance
 - ◆ Residential Construction

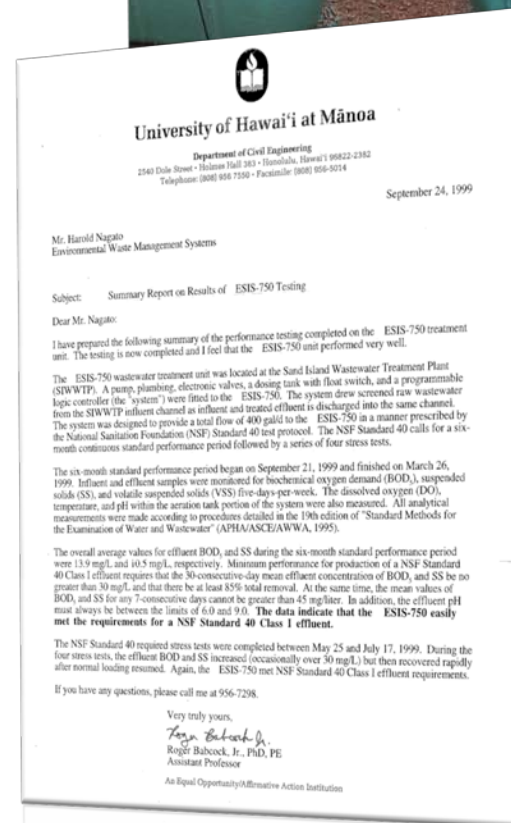
Environmental Products

- ◆ ESIS Aerobic Treatment Units (NSF-40 Class I Effluent)
- ◆ Septic Tanks (IAPMO)
- ◆ Grease Interceptors (IAPMO)
- ◆ Effluent Pumping Systems
- ◆ Monitoring & Control Devices



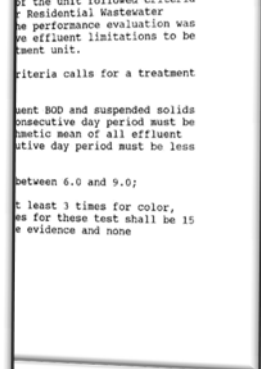
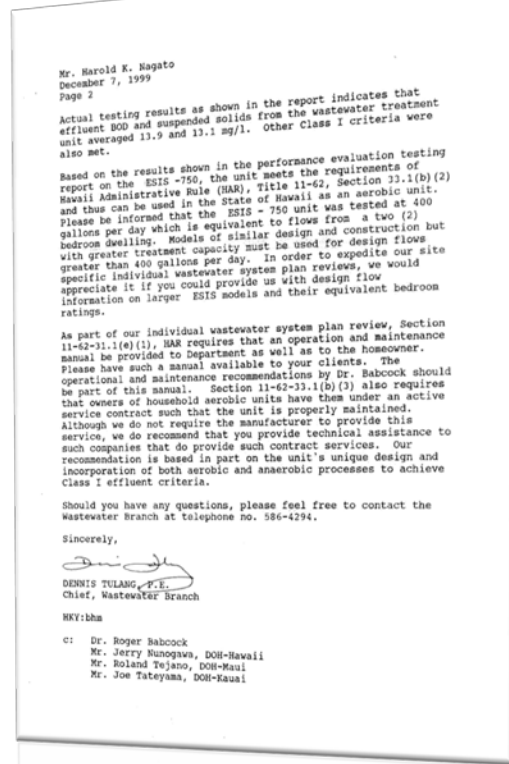
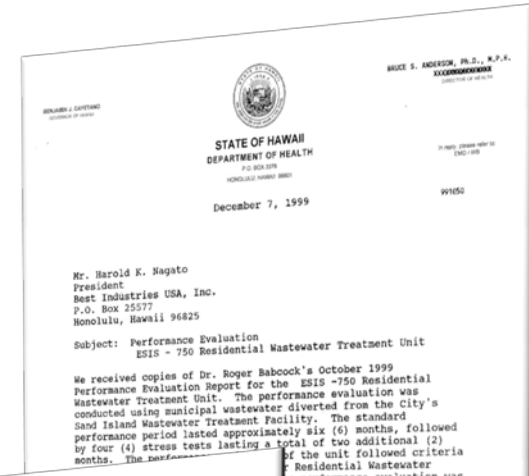
Environmental Products

- ESIS Aerobic Treatment Units (NSF-40 Class I Effluent)
- “...the ESIS met NSF Standard 40 Class I effluent requirements (Babcock, 1999).”
- Dr. Roger Babcock, Jr., PhD, PE
- University of Hawaii at Manoa, Water Resources Research Center



Environmental Products

- ESIS Aerobic Treatment Units (NSF-40 Class I Effluent)
- “...the unit meets the requirements...and thus can be used in the State of Hawaii as an aerobic unit (Tulang, 1999).”
- Mr. Dennis Tulang, PE, Chief, Wastewater Branch
- State of Hawaii, Department of Health



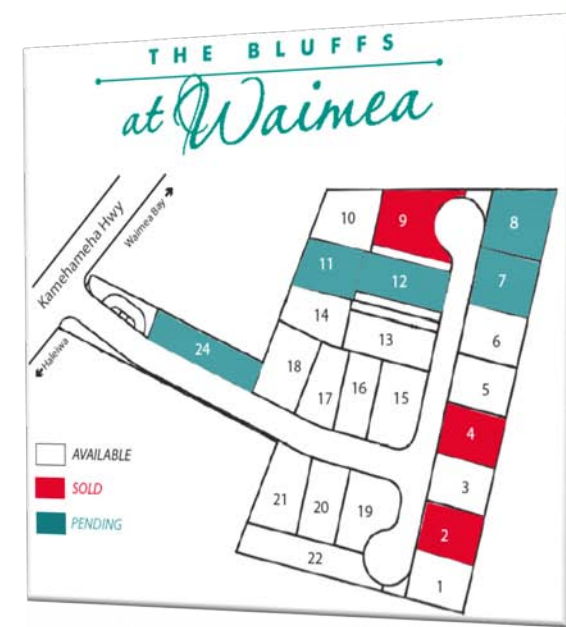
Projects Residential

- ◆ Makena Luxury Homes (10,000 gpd per Lot)
 - ◆ 10 Residential Lots
 - ◆ Private Beachfront Homes
- ◆ Dillingham Ranch House (3,000 gpd)
- ◆ Sullivan Estate (2,000 gpd)
- ◆ Kula Estates (4,000 gpd)



Projects Private Subdivision

- ◆ Bluffs at Waimea Subdivision (24,000 gpd)
 - ◆ 24 Residential Lots
 - ◆ 6,750 – 17,798 SF Lots
 - ◆ Granted Variance
 - ◆ No Pass Zone
 - ◆ Less than 10,000 SF per IWS
 - ◆ Island of Oahu



Projects Private Subdivision

- ◆ Dillingham Agricultural Subdivision (77,000 gpd)
 - ◆ 77 Residential Lots
 - ◆ 5 – 8 Acre Lots
 - ◆ DOH-WWB Subdivision Approval
 - ◆ No Pass Zone
 - ◆ More than 50 residential dwellings
 - ◆ Island of Oahu

20-2011 11-21-11 FROM CIVIL ENGINEERING
 481594133 7-112 3/07/01 P-112
 HAWAII DEPARTMENT OF HEALTH
 DIVISION OF WASTEWATER
 SUBDIVISIONS

Project File No.	7571	File No.	11-2011-11-21-11
Project Name	Dillingham Ranch	Project	DOH-WWB
Project No.	2012-1437	Date	February 25, 2008

To: Mr. Henry Ling, Director
 Department of Planning & Permitting
 City and County of Honolulu

From: Thomas S. See, Chief, Wastewater Branch
 Department of Health

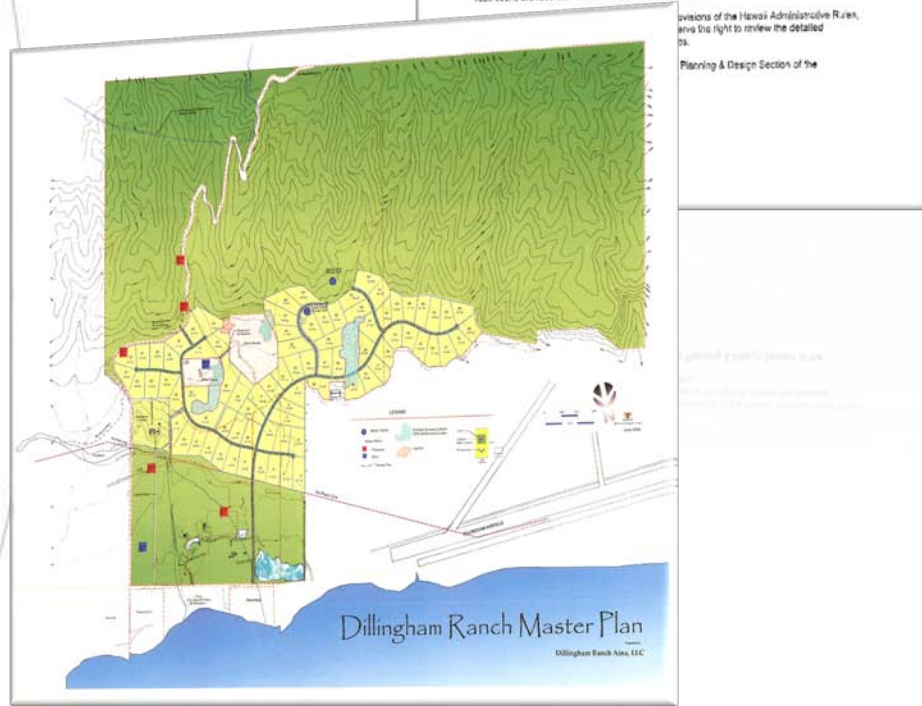
Subject: City & County of Honolulu Subdivision Application for the Dillingham Ranch Subdivision - Revised Map, Mānoa, Oahu, Hawaii
 TMK: (1) 8-8-002: 006
 (1) 8-8-002: 005, 006, 015, 019, 020, 033, 036 and 040
 Total Area: 2,772.49 acres

Thank you for allowing us the opportunity to review the proposed subdivision. The owner's representatives provided additional information to the Department of Health (Department) on February 19, 2008.

The information provided satisfies the Department's concerns and we can now concur with the proposed subdivision provided that the deed restrictions submitted to the Department are included and recorded for all the 77 residential lots.

The Declaration of Restrictive Covenants and Maintenance Service Contracts agreed to by the original property owner shall be made part of each subdivided lot and recorded and executed immediately after the subdivision. The subject documents (see attachment) were provided by White & Torn on February 12, 2008 and October 22, 2007 to the Department to address our concerns on the treatment and disposal of wastewater generated by the subject development. Furthermore, the Department will not sign off on any building permits for these lots until the deed restrictions are recorded with the Bureau of Conveyance.

Divisions of the Hawaii Administrative Rules, have the right to review the detailed Planning & Design Section of the



Projects Private Subdivision

◆ Kula Ridge Subdivision (116,000 gpd)

- ◆ 116 Residential Lots
 - ◆ (42) 6,000 – 21,000 SF Market Lots
 - ◆ (70) 5,600 – 8,500 SF Affordable Lots
 - ◆ (4) 4 Acre Agricultural Lots
- ◆ Granted Variance
 - ◆ Less than 10,000 SF per IWS
 - ◆ More than 50 residential dwellings
- ◆ Island of Maui



STATE OF HAWAII
DEPARTMENT OF HEALTH
KULUHA NEAR OFFICE
June 29, 2007

CERTIFIED MAIL 7005 1160 0001 6381 4502
RETURN RECEIPT REQUESTED

Mr. Clayton Nishikawa
Managing Member
Kula Ridge, LLC

Application No. WW 242 Docket No. 06-VWW-31
Development of 116 Units consisting of 59 Affordable Lots,
5,600 - 6,000 square foot, 53 Market Lots - sizes 6,000 - 21,000
square foot, and 4 agricultural lots - sizes 4 acres minimum
Kula Road, Lot 2, Waikuku, Maui, TMK: (2) 2-3-001: 174

the Department of Health's Decision and Order regarding the
application for variance request which was **GRANTED** on
five (5) years. We are enclosing for your information the Findings of
the Department of Health.

If you have any questions relative to the
decision conditions and if there are any questions relative to the
decision conditions to contact Mr. Harold Vico, Chief of the Wastewater
Division at the phone number 984-2400 ext 84294, fax (808) 980-4300.

H. Vico
HAROLD VICO
M.S., P.E., C.E.P.
Wastewater
Regulation Division
Division and Order
of the Department of Health
and the Department of Law
Professional Office
1000 Ala Moana Blvd., Suite 1000
Honolulu, HI 96813
Tel: 984-2400
Fax: 984-4300

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Projects DHHL Subdivision

- ◆ Lalamilo Subdivision(36,000 gpd)
 - ◆ 36 Residential Lots
 - ◆ Department of Hawaiian Home Lands
 - ◆ Aerobic Treatment Unit Requirement
 - ◆ Less than 50 feet from body of water
 - ◆ Septic tanks NOT allowed
 - ◆ Island of Hawaii



Projects DHHL Subdivision

- ◆ Waiohuli Subdivision(20,000 gpd)
 - ◆ 20 Residential Lots
 - ◆ Department of Hawaiian Home Lands
 - ◆ Island of Maui



Projects DHHL Subdivision

- ◆ Anahola Subdivision(9,000 gpd)
 - ◆ 9 Residential Lots
 - ◆ Department of Hawaiian Home Lands
 - ◆ Island of Kauai



Projects Commercial

- ◆ Pukalani McDonald's
(3,000 gpd)
 - ◆ U.S. EPA Compliance
 - ◆ Large-Capacity Cesspool
 - ◆ Island of Maui
- ◆ Consolidated Baseyards
(3,000 gpd)
 - ◆ DHX – Shipping/Trucking Facility
 - ◆ Joslin-Roberts – Warehouse
 - ◆ Tri-Isle Trucking – Trucking Facility
 - ◆ Island of Maui



Projects Commercial

- ◆ Kamehameha Schools –
Laehala Caretakers Home
(1,000 gpd)
 - ◆ Aerobic Treatment Unit Requirement
 - ◆ Sensitive oceanfront property
 - ◆ Septic tanks NOT allowed
 - ◆ Island of Hawaii



Projects Commercial

- ◆ KTA Super Stores (20,000 gpd)

- ◆ Supermarket, Restaurants, & Retail Shops
- ◆ U.S. EPA Compliance
 - ◆ Large-Capacity Cesspools
- ◆ Island of Hawaii

- ◆ Pahala Shopping Center (2,000 gpd)

- ◆ Convenience Store, Restaurant, & Bank
- ◆ Island of Hawaii



Projects Commercial

- ◆ Puainako Shopping Center
(2,000 gpd)

- ◆ Subway & Baskin Robbins
- ◆ U.S. EPA Compliance
 - ◆ Large-Capacity Cesspools
- ◆ Island of Hawaii

- ◆ Keaau Shopping Center
(5,000 gpd)

- ◆ Grocery, Pharmacy, Restaurants,
Hardware, & Public Restrooms
- ◆ U.S. EPA Compliance
 - ◆ Large-Capacity Cesspools
- ◆ Island of Hawaii



Projects Commercial

- ◆ Orchidland Shopping Center (4,000 gpd)
 - ◆ Restaurant & Retail Shops
 - ◆ U.S. EPA Compliance
 - ◆ Large-Capacity Cesspools
 - ◆ Island of Hawaii
- ◆ Naalehu Shopping Center & Theater (4,000 gpd)
 - ◆ Stores & Theater
 - ◆ Island of Hawaii



Projects U.S. Government

- ◆ U.S. Army
- ◆ U.S. Army Corps of Engineers
- ◆ U.S. Army Garrison
Department of Public Works
- ◆ U.S. Coast Guard



Projects U.S. Government

- ◆ U.S. Army
- ◆ U.S. Army Corps of Engineers
- ◆ U.S. Army Garrison
Department of Public
Works
- ◆ U.S. Coast Guard



Projects State Government

◆ Kahana Valley State Park (2,000 gpd)

- ◆ State of Hawaii DLNR
- ◆ Beach Park Restrooms
- ◆ Aerobic Treatment Unit Requirement
 - ◆ Less than 50 feet from ocean
- ◆ U.S. EPA Compliance
 - ◆ Large-Capacity Cesspool
- ◆ Island of Oahu

◆ Wailua River State Park (5,000 gpd)



Projects City & County Government

- ◆ Barbers Point Comfort Station (2,000 gpd)

- ◆ City & County of Honolulu
- ◆ Beach Park Restrooms
- ◆ Aerobic Treatment Unit Requirement
 - ◆ Less than 50 feet from ocean
- ◆ U.S. EPA Compliance
 - ◆ Large-Capacity Cesspool
- ◆ Island of Oahu

- ◆ Makapuu Comfort Station (3,000 gpd)



Variance

- ◆ “Variance...special written authorization from the director ...to do an act that deviates from the requirements of rules adopted under this chapter (HRS §342D-1 Definitions).”
- ◆ Criteria for Granting a Variance:
 1. If granted, it is in the public interest
 2. If granted, it will NOT substantially endanger human health or safety
 3. If not granted, would produce serious hardship without equal or greater benefit to the public



Thank you

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