

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Engineering Division
Honolulu, Hawaii 96813

August 12, 2011

Board of Land and Natural Resources
State of Hawaii
Honolulu, Hawaii

**APPLICATION FOR A DLNR DAM SAFETY CONSTRUCTION/ALTERATION PERMIT
PERMIT NO. 49 – KOLEA RESERVOIR (MA-0097)
DAM ALTERATION AND REMOVAL, HANA, MAUI, HAWAII**

The Engineering Division hereby submits an application for your approval and authorization for the Chairperson and Department to stipulate conditions and issue a Dam Safety Construction/Alteration Permit for the subject application, "Alteration and Removal of the KOLEA RESERVOIR", pursuant to Chapter 179D Hawaii Revised Statutes.

APPLICANT:

Mr. Ernest Y.W. Lau
Public Works Administrator
State of Hawaii
Department of Accounting and General Services
1151 Punchbowl Street, Room 426
Honolulu, HI 96813

LANDOWNER:

Russell Y. Tsuji, Administrator
State of Hawaii
Department of Land and Natural Resources
Land Division
1151 Punchbowl Street, Room 220
Honolulu, HI 96813
TMK: (2) 1-1-001:050

SUMMARY OF REQUEST:

Application for a Dam Safety Construction/Alteration Permit for the alteration and removal of the Kolea Reservoir, Hana, Hawaii (See Exhibit 1)

LOCATION: Hana, Maui, Hawaii

TMK: (2) 1-1-001:050
Owned by State of Hawaii, DLNR (See Exhibit 2)

BACKGROUND:

The Kolea Reservoir was constructed around 1901 by Alexander & Baldwin to supply irrigation water to sugarcane fields in Central Maui via the Center Ditch. The reservoir is currently maintained by East Maui Irrigation (EMI) and is the most distant regulated reservoir on their system.

The dam at Kolea Reservoir is an instream earthen dam that is approximately 57 feet high and 258 feet long. The estimated capacity of the reservoir is 24.4 acre-feet at the spillway and 42.7 acre-feet at the elevation of the crest. The surface area of the reservoir at the dam crest is approximately 2.2 acres. The dam has a size classification of "intermediate" and proposed hazard potential classification of "low". (See Exhibit 3)

An October 2009 Phase I Dam Inspection Report by GEI Consultants, Inc. determined that the dam's overall condition was "CONDITIONALLY FAIR". The owner and EMI have decided to remove the dam and have the location restored to a natural stream condition.

An application for the alteration and removal of the Kolea Reservoir was filed on October 6, 2010 by the State of Hawaii, Department of Accounting and General Services (DAGS), on behalf of the owner, State of Hawaii, Department of Land and Natural Resources (DLNR).

PROJECT DESCRIPTION:

The owner is proposing to breach the dam structure through the left side of the embankment. As a proposed low hazard intermediate sized dam the inflow design flood for the dam would be a 100 year flood event. Therefore, the project will include excavating and constructing a 15 foot wide grouted riprap lined trapezoidal channel through the existing embankment. The channel is designed to carry the 100 year theoretical flood flow of 1600 cubic feet per second (cfs) at a calculated depth of 4.85 feet through the channel. The outfall of the breach channel will follow the original stream bed of Kolea Stream. (See Exhibit 4)

CHAPTER 343 – ENVIRONMENTAL ASSESSMENT:

An Environmental Assessment (EA) was performed by Oceanit because the subject property (TMK: (2) 1-1-001:050) is designated as Conservation Land. The Draft EA notification was made on October 23, 2010 in the Environmental Notice. A Finding of No Significant Impact (FONSI) was issued in the May 23, 2011 Environmental Notice. (See Exhibit 5)

REMARKS:

The applicant (DAGS), the owner (DLNR), and the applicant's consultant, Oceanit, have completed a basis of design, plans and specifications for the breach, and bid and awarded the project. DAGS has requested for the approval of the submitted Dam Safety Construction/Alteration Permit. The staff of the Dam Safety Program has reviewed the documents and concluded that they are sufficient for their intended purposes. Staff recommends approval of this permit application with the Dam Safety Permit General Conditions. (See Exhibit 6)

SPECIAL CONDITIONS:

NONE

RECOMMENDATION:

That the Board:

1. Authorize the approval and issuance of the Dam Safety Construction/Alteration Permit for this project; and
2. Direct the Chairperson to issue a dam safety permit for the alteration and removal of the Kolea Reservoir (DLNR Dam Safety Construction/Alteration Permit No. 49) subject to such other terms and conditions as may be prescribed by the Chairperson to best serve the interests of the State.
3. Authorize the Department to oversee the permitted work and take appropriate action including but not limited to selecting and procuring testing or professional services to verify construction work, approval of minor revisions and changes, issuance of fines and /or revocation of the permit, if necessary.
4. Authorize the Department to remove this dam from dam safety regulatory oversight and the requirements of Chapter 179D, Hawaii Revised Statutes, upon satisfactory completion of the construction project.

Respectfully submitted,



CARTY S. CHANG
Chief Engineer

APPROVED FOR SUBMITTAL:



WILLIAM J. AILA, JR.
Chairperson

- Exhibit(s):
- 1 Owner Permit Application
 - 2 Location map
 - 3 Site Images
 - 4 Partial Construction Drawing set
 - 5 Environmental Assessment - FONSI
 - 6 Dam Safety Permit General Conditions

DLNR-Dam Safety-Sheet 1

State of Hawaii
BOARD OF LAND AND NATURAL RESOURCES
 Department of Land and Natural Resources
 Engineering Division

**APPLICATION FOR APPROVAL OF PLANS AND SPECIFICATIONS FOR CONSTRUCTION,
 ENLARGEMENT, REPAIR, ALTERATION, OR REMOVAL OF A DAM**

Date of Application: October 01, 2010
 Applicant: Department of Accounting & General
 Contact Name: Ernest Y. W. Lau Firm / Company: Services (DAGS), State of Hawaii

Mailing Address 1151 Punchbowl Street, Room 426, Honolulu, HI 96813

Telephone: (808) 586-0526 Fax: (808) 586-0521 Email: ernest.y.lau@hawaii.gov

The Applicant hereby applies to the Board of Land and Natural Resources for the approval of the attached plans and specification for the Kolea Reservoir (HI00097) Maintenance & Remediation Improvements (construction, etc.) in accordance with Chapter 179D HRS (as amended by Act 262, SLH 2006), and subject to the provisions, conditions, and limitations of the current Hawaii Administrative Rules and various DLNR dam safety guidelines.

Accompanying this application are:

(please check)

- | | |
|--|--------------------|
| 1. Filing fee (\$25.00) (Waived for government agencies) | <u> </u> |
| 2. Three (3) copies of the Detailed Cost Estimate | <u> X</u> |
| 3. Three (3) copies of the Final Design Report | <u> X</u> |
| 4. Three (3) copies of the Plans | <u> X</u> |
| 5. Three (3) copies of the Specifications | <u> X</u> |
| 6. Proposed Construction Schedule | <u> X</u> |
| 7. Supporting documents: | <u> X</u> |
| <u>USGS Topographic Map</u> | <u> X</u> |
| <u>Property Tax Map</u> | <u> X</u> |
| <u>Engineering Report</u> | <u> X</u> |

NAME OF STRUCTURE: Kolea Reservoir (HI00097)

DAM OR RESERVOIR LOCATION: windward side of Maui Island in the Hana District

Island: Maui Tax Map Key: 1-1-001:050

Attach USGS topographic map (scale 1" = 2000') and property tax map (showing location access to site, proposed work)

State Land Use District: X Agriculture Urban Rural Conservation

BRIEF DESCRIPTION OF WORK TO BE PERFORMED

Kolea Reservoir is currently used for irrigation water storage for agriculture use. The dam section of the reservoir will be breached to allow Kolea Stream to continually flow without stream flow detention. The dam will be breached by constructing a 15-foot wide channel with 2:1 side slopes. The breach channel will be grassed using seeded spray mulch or reinforced grass mats. During construction, a bypass line will be used to divert stream flow downstream of the reservoir construction site. After the establishment of the permanent erosion control measures within the breached channel, the bypass line will be removed.

TECHNICAL INFORMATION:

DLNR-Dam Safety-Sheet 2

1. Drainage Area 0.328 sq. miles or 210 acres
2. Classification of Dam Intermediate
3. Type of Structure Earth Fill Embankment
4. Elevation-Area-Capacity Data:

	Elevation	Surface Area (acres)	Total Storage Volume (acre-feet)
Natural Streambed	<u>~733 ft. MSL</u>	<u>N/A</u>	<u>N/A</u>
Primary Spillway	<u>759.7 ft. MSL</u>	<u>1.67</u>	<u>24.36</u>
Secondary Spillway	<u>No secondary Spillway</u>	<u>N/A</u>	<u>N/A</u>
Top of Dam	<u>769.8 ft. MSL</u>	<u>1.97</u>	<u>42.72</u>
Design Water Level	<u>759.7 ft. MSL</u>	<u>1.67</u>	<u>24.36</u>
Invert of Drain	<u>-732 ft. MSL</u>	<u>N/A</u>	<u>N/A</u>
5. Spillway Details (Type, Dimensions, Material)

Primary:	<u>Exposed bedrock - 30 ft.</u>
Secondary:	<u>None</u>
6. Purpose of Structure previously used for storage of irrigation water
(water supply, irrigation, recreation, real estate development, etc.)
7. Attach rainfall and stream flow records, and flood-flow records and estimates (as accurately as may be readily obtained) See Attachments

ADDITIONAL INFORMATION

1. Primary Owner Contact (if different from applicant) Russell Tsuji, Land Division Administrator
Owner Company or Entity: DLNR - Land Division
Mailing Address 1151 Punchbowl Street, Room 220, Honolulu, HI 96813
Telephone: (808) 587-0422 Fax: (808) 587-0455 Email: dlnr.land@hawaii.gov
2. Registered Hawaii Professional Engineer who prepared the plan Oceanit Laboratories, Inc.
Derrick C. Eifalan
Mailing Address 828 Fort Street Mall, Suite 600, Honolulu, HI 96813
Registration No. 5448-C
Telephone: (808) 531-3017 Fax: (808) 531-3177 Email: delfalan@oceanit.com
3. Registered Professional Engineer to be responsible for inspection during construction _____
Derrick C. Eifalan
4. Contractor (If known) Goodfellow Bros., Inc.
Mailing Address P.O. Box 220, Kihei, Hawaii 96753-0220
Telephone: (808) 879-5205 Fax: (808) 879-3674 Email: _____
5. List all other permits applications submitted to other governmental agencies:
Coastal Zone Management Permit, Dam Safety Permit, Stream Channel Alteration Permit,
Army Corps of Engineers 404 Permit, Clean Water Branch 401 Permit, NPDES Permit,
Conservation District Use Permit, & Stream Diversion Works Abandonment Permit
6. Anticipated effect of proposed structure on natural environment: Earthen structure will be removed,
and no other structures will be rebuilt. No negative environmental effect is anticipated. Breaching
the dam will restore the stream to its natural condition.

1. List all other parties that have ownership or other interest on the parcels where the dam and reservoir are located and identify their interest in the property. The Owners herein listed below concur with the work proposed within this application by the applicant and by his/her signing hereto, the owner of the land extends to the Board of Land and Natural Resources, and its designated representatives, a right-of-entry onto the project site to conduct any investigations or inspections required in compliance with the provisions of Chapter 13-190, Hawaii Administrative Rules. (Submit additional copies of this sheet should there be more owners)

Paul J. Conroy
for (Signature of Owner) Chairperson

1151 Punchbowl St., #220; Honolulu, HI 96813; Owner
(Address / Interest in Dam or Reservoir)

(Signature of Owner)

(Address / Interest in Dam or Reservoir)

(Signature of Owner)

(Address / Interest in Dam or Reservoir)

(Signature of Owner)

(Address / Interest in Dam or Reservoir)

(Signature of Owner)

(Address / Interest in Dam or Reservoir)

(Signature of Owner)

(Address / Interest in Dam or Reservoir)

(Signature of Owner)

(Address / Interest in Dam or Reservoir)

(Signature of Owner)

(Address / Interest in Dam or Reservoir)

I, Ernest Y. W. Lau the applicant, hereby certify that the information herein is true and factual to the best of my knowledge. Signing below indicates that the applicant understands that, if the permit requested is granted by the Board of Land and Natural Resources, the proposed work is to be initiated and completed within two (2) years of the approval date, unless specifically permitted in the approved permit terms and conditions.

E. Y. W. Lau
for (Signature of Applicant & Title)
Public Works Division Administrator
Dept. of Accounting and General Services

Date: 10/18/10

EAST MAUI IRRIGATION COMPANY, LIMITED
P.O. BOX 791628, PAIA, MAUI, HAWAII 96779-1628

November 19, 2009

Mr. Morris M. Atta, Administrator
State of Hawaii
Department of Land and Natural Resources
Land Division
P.O. Box 621
Honolulu, Hawaii 96809

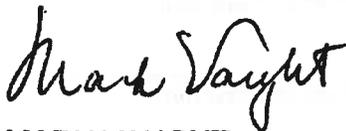
Subject: **KOLEA RESERVOIR DECOMMISSIONING (State ID# HI-00097)**

Dear Mr. Atta:

We are in receipt of your letter dated September 23, 2009 requesting concurrence to the decommissioning of Kolea Reservoir. After review of the draft copy of the Final Phase I Visual Inspection Report submitted by GEI Consultants, we concur with your recommendation to decommission the reservoir. Please keep us apprised of your progress.

Please feel free to contact me at (808) 579-9516 or by email at mvaught@hcsugar.com should you have any questions or require our assistance.

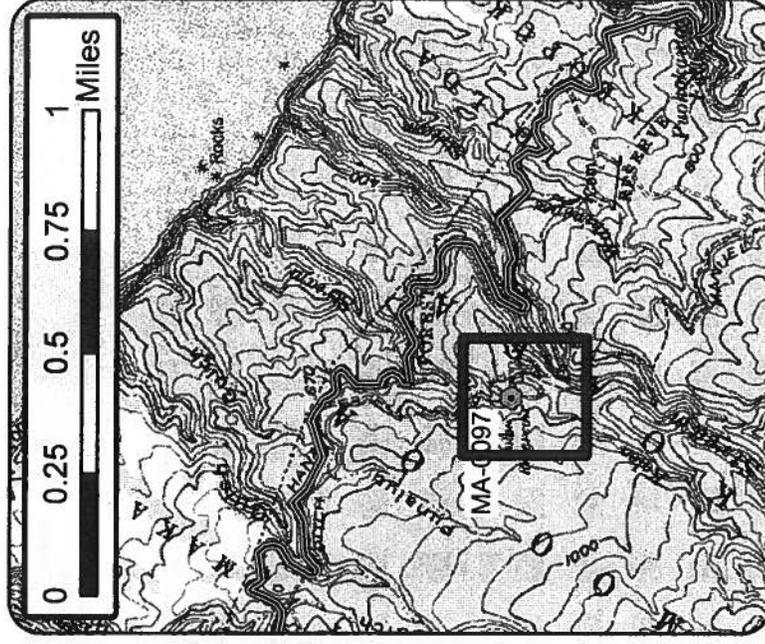
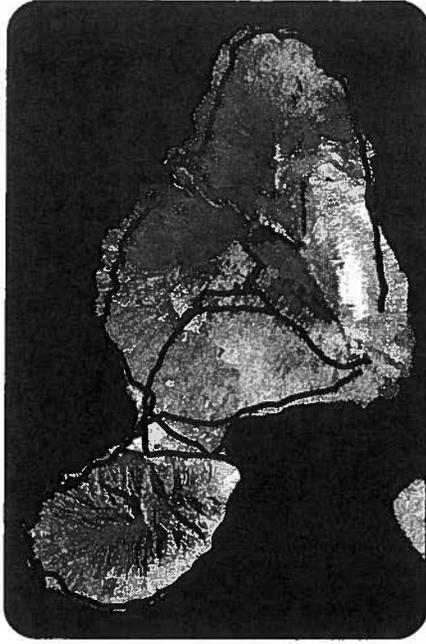
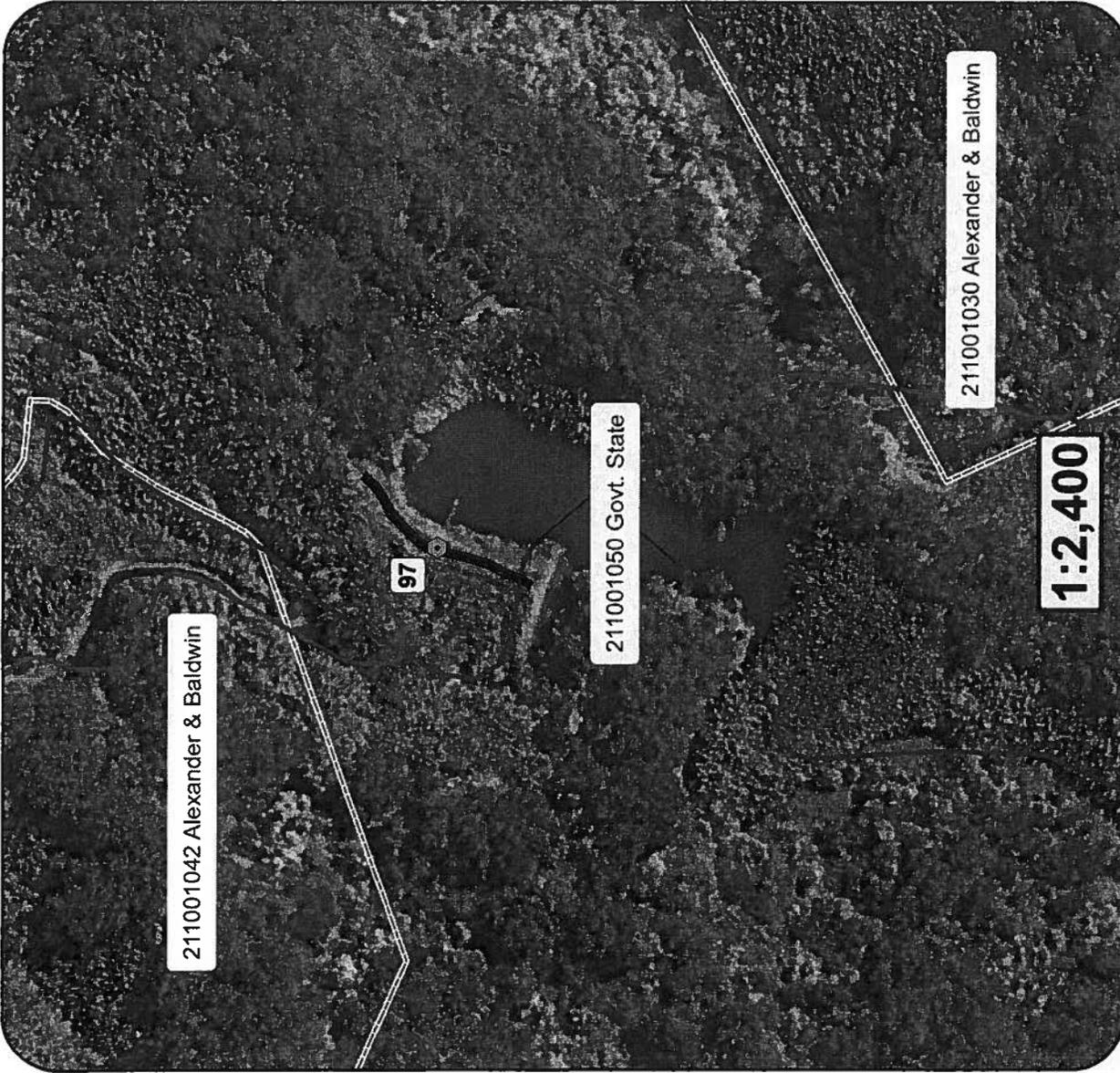
Best regards,



MARK VAUGHT
Operations Manager

cc: ✓ E. Matsuda, DLNR Dam Safety Program
G. Hew, HC&S/EMI
M. Ching, A&B, Inc.

09 NOV 25 PM 08:19 ENGINEERING



Kolea Reservoir (MA-0097)

MA-0097 KOLEA RESERVOIR

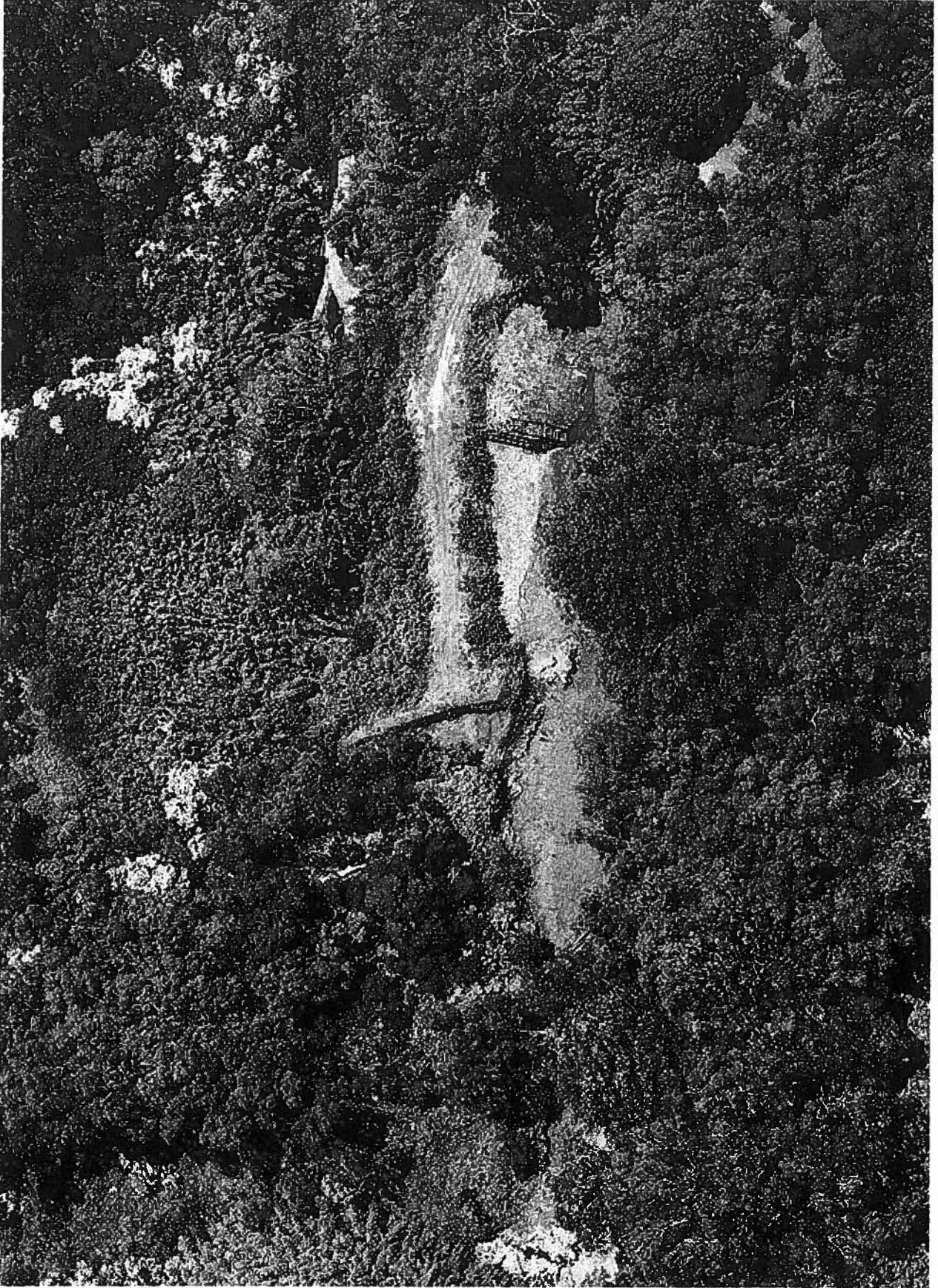


Exhibit 3

5/16/2011

Kolea Reservoir - at Spillway Lip W 156.190734° Bamboo Covered Downstream Slope and Crest



N 20.372432° W 156.190734°

26-05-2010 2:02 PM

Kolea Reservoir - at Spillway Lip

Outlet Works Catwalk



N 20.372433° W 156.189717°

26-05-2010 2:08 PM

Exhibit 3

Kolea Reservoir - at Spillway Lip

Placed Riprap Protected Upstream Slope



N 20.872382° W 156.189831°

17

26-05-2010 2:08 PM

Kolea Reservoir - at Spillway Lip

Reservoir Overview



N 20.872382° W 156.189831°

26-05-2010 2:11 PM

Exhibit 3

CHAPTER 343 ANALYSIS

Project Name: Removal of Kolea Reservoir (MA-0097)
Reviewer: John Dawley Date of Review: 18-July-2011

EA Done with Finding of no Significant Impact (FONSI)
 EIS Done with Finding of no Significant Impact (FONSI)

If FONSI has been issued no further analysis is required. Date of FONSI: 23-May-2011

TRIGGERS (HRS §343-5(a))

Is there an "action" that triggers the need for an EA?

Action

An "action" is a program or project:

Initiated by an agency

Initiated by an "applicant"

Any person who, pursuant to statute, ordinance, or rule, officially requests "approval" for a proposed action (discretionary consent required from an agency prior to actual implementation of an action, distinguished from a ministerial consent)

_____ Statute
_____ Ordinance
_____ Rule

Triggers

Yes No

- _____ Use of state or county lands or funds
- _____ Use of conservation district lands
- _____ Use within shoreline setback area
- _____ Use of historic site designated on the National or Hawaii registers
- _____ Use of land in the Waikiki Special District
- _____ Amendment to county general plan which would result in designations other than agriculture, conservation, or preservation unless initiated by a county
- _____ Reclassification of conservation lands by the Land Use Commission
- _____ Construction or modification of helicopter facilities that may affect conservation district lands, a shoreline setback area, or a historic site
- _____ Wastewater facilities, waste-to-energy facility, landfill, oil refinery, or power-generating facility

Triggers summary:

Is there a trigger?

If Yes, Go to Exemptions to determine if the program or project is exempt

If it is not exempt an Environmental Assessment is required

If No, No Environmental Assessment required

EXEMPTIONS

CHAPTER 343 ANALYSIS

Two sources of exemptions: exemption lists or exemptions contained in HAR §11-200-8(a)

1. Exemption Lists

- Division exemption lists
- Department-wide exemption list

Explain (which exemption list, which exemption, how it applies):

2. HAR §11-200-8(a) exemptions

- Operations, repairs, or maintenance of existing structures, facilities, equipment, or topographical features, involving *negligible or no expansion or change of use* beyond that previously existing
- Replacement or reconstruction of existing structures and facilities where the new structure will be located generally on the same site and will have *substantially the same purpose, capacity, density, height, and dimensions* as the structure replaced
- Construction and location of a single, *new, small facilities* or structures and the alteration and modification of the same and installation of new, small, equipment and facilities and the alteration and modification of same, including, but not limited to:
 - (a) *Single family residences less than 3,500 square feet* not in conjunction with the building of two or more such units;
 - (b) Multi-unit structures designed for *not more than four dwelling units* if not in conjunction with the building of two or more such structures;
 - (c) Stores, offices, and restaurants designed for total occupant load of *twenty persons or less* per structure, if not in conjunction with the building of two or more such structures; and
 - (d) Water, sewage, electrical, gas, telephone, and other essential public utility services extensions *to serve such structures* or facilities; accessory or appurtenant structures including garages, carports, patios, swimming pools, and fences; and acquisition of utility easements
- Minor alterations* in the conditions of land, water, or vegetation

CHAPTER 343 ANALYSIS

- _____ Basic data collection, research, experimental management, and resource evaluation activities that *do not result in a serious or major disturbance* to an environmental resource

- _____ Construction or placement of *minor structures accessory* to existing facilities

- _____ *Interior alterations* involving things such as partitions, plumbing, and electrical conveyances

- _____ Demolition of structures, *except* those structures located on any *historic site* as designated on the National or Hawaii registers

- _____ Zoning variances *except shoreline* set-back variances

- _____ Continuing administrative activities including, but not limited to purchase of supplies and personnel related actions; and

- _____ Acquisition of land and existing structures, including single or multi-unit dwelling units, for the provision of *affordable housing*, involving *no material change of use* beyond that previously existing, and for which the *legislature has appropriated* or otherwise authorized *funding*

Explain (how the exemption indicated above applies):

Exemptions summary:

Does the Project qualify for an exemption? Yes ___ No ___
If Yes, Exemption noted above
If No, Project requires Environmental Assessment

CUMULATIVE IMPACT

Exemptions are inapplicable when the cumulative impact of planned successive actions in the same place, over time, is significant, or when an action that is normally insignificant in its impact on the environment may be significant in a particularly sensitive environment.

Additional Notes



The Environmental Notice

October 23, 2010

KAUAI (HRS 343)

- 1. Kapaa High School Softball Stadium (FEA) 2

OAHU (HRS 343)

- 2. Leeward Bikeway (SDEA) 2
- 3. HON Fernandez Village Cell Site (DEA) 3
- 4. Kewalo Basin Repairs Project (DEIS) 4
- 5. Clarence T.C. Ching Athletics Facility (DEA) 4
- 6. Hawaii Pacific University Hawaii Loa Campus Expansion (FEA) 5

MAUI (HRS 343)

- 7. Kolea Reservoir Removal (DEA) 5
- 8. Piilani Highway Widening Project, Kilohana Drive to Wailea Ike Drive (DEA) 6
- 9. Ohana Kai Village Affordable Housing Project and Related Improvements (FEIS) 7

City and County of Honolulu - Special Management Area (Ch. 25, Rev. Ord. of Honolulu)

- Queen Liliuokalani Children's Center, Waianae Coast Unit 7

Conservation District Use Permits

- University of Hawaii at Hilo, Mauna Kea Science Reserve, Thirty Meter Telescope 8

Federal Consistency Reviews

- Hawaii Tracking Station A-Side Antenna Remote Block Change Upgrade, Kaena Point Satellite Tracking Station, Waianae, Oahu 8

Special Management Area Minor Permits

..... 9

Shoreline - Certification Applications

..... 10

Shoreline - Certifications and Rejections

..... 10

Pollution Control Permits

..... 13

Federal Notices

- Notice of availability of a draft habitat conservation plan, draft implementing agreement, draft environmental assessment, and a permit application; request for comments 13

Glossary

..... 14

Note: The 2011 Deadline Calendar is now available on our website.

The *Environmental Notice* informs the public of environmental assessments and other documents that are available for review and comment per HRS §343-3 and is updated on the 8th and 23rd of each month on the Office of Environmental Quality Control's website. If you would like to be notified when it is updated, send us your email address and we'll put you on our mailing list.

Katherine Puana Kealoha, Esq., Director · Office of Environmental Quality Control · 235 South Beretania Street, Suite 702 · Honolulu, HI 96813
Tel: 586-4185 · Fax: 586-4186 · Email: oeqc@doh.hawaii.gov · Website: <http://hawaii.gov/health/environmental/oeqc/index.html/>
Toll Free: Kauai: 274-3141 ext. 64185 · Maui: 984-2400 ext. 64185 · Molokai/Lanai: 1-800-468-4644 ext. 64185 · Hawaii: 974-4000 ext. 64185

The University of Hawaii proposes to replace existing bleachers at the Clarence T.C. Ching Athletics Field at the Makai Campus of the University of Hawaii at Manoa. The new structure will be known as the Clarence T.C. Ching Athletics Facility. The project is intended to consolidate athletic facilities and to allow the Clarence T.C. Ching Field to more fully realize its potential as a center of student activity.

Construction of the Clarence T.C. Ching Athletics Facility involves replacing the existing bleachers at the Clarence T.C. Ching Field with a similar number of seats and ancillary facilities including a ticketing area, concession stands, locker rooms, athletic offices, two sand volleyball courts and support facilities. Short-term impact to air quality, noise, and water quality may occur during construction of the project. No long-term impacts are anticipated to result from development of the project.

6. Hawaii Pacific University Hawaii Loa Campus Expansion (FEA)

Island: Oahu
District: Koolauapoko
TMK: (1) 4-5-35:10
Proposing Agency: Hawaii Pacific University, 1164 Bishop Street, Suite 200, Honolulu, HI 96813. Rick Stepien, 544-0864
Approving Agency: Dept of Land and Natural Resources, Office of Conservation and Coastal Land, Kalanimoku Building, 1151 Punchbowl St., Honolulu, HI 96813. Sam Lemmo, 587-0377
Consultant: Group 70 International, Inc., 925 Bethel Street, 5th Floor, Honolulu, HI 96813. George I. Atta, Principal, 523-5866
Permits: CDUA
Comments: FEA accepted by the Approving Agency. There is no comment period

The Hawaii Pacific University, Hawaii Loa Campus expansion will enhance the quality of HPU's education and scholarship and will create a vibrant campus community with a residential life component that supports excellence in teaching and learning. The two main thrusts driving HPU's campus expansion are to: 1) add 400 additional on-campus housing units and 2) accommodate the growth of the two academic programs based at the Hawaii Loa Campus, nursing and natural sciences.

The project proposes, in two phases, to add additional parking and on-campus housing, to construct a new performing arts center, multi-purpose gymnasium, a new academic building, and a student center. Expected enrollment will be over 2,800 students by the Fall of 2012, with 948 undergraduate and graduate students in the Natural Science program and 1,900 students in the School of Nursing.

MAUI (HRS 343)

7. Kolea Reservoir Removal (DEA)

Island: Maui
District: Hana
TMK: (2) 1-1-01:50
Permits: 401 Water Quality Certification, CDUP, Dam Safety, Stream Channel Alteration; Stream Diversion Works Abandonment, US Army Corps of Engineers Section 10/ 404, CZM Federal Consistency
Proposing Agency: Dept of Accounting & General Services, 1151 Punchbowl Street, P.O. Box 119, Honolulu, HI 96813. Ernest Lau, Director, 586-0526

Approving

- Agency:** Dept of Land & Natural Resources, 1151 Punchbowl Street, Honolulu, HI 96813. Laura Thielen, 587-0400
- Consultant:** Derrick Elfalan P.E., Civil Engineer, Oceanit Laboratories, Inc., 828 Fort Street Mall, Suite 600, Honolulu, HI 96813. Phone: 531-3017, Fax: 531-3177
- Comments:** DEA 30-day comment period starts from the date of this Notice. Address comments to the Proposing Agency and Consultant

The Kolea Reservoir is no longer required for storage of stream water for irrigation and will be removed and restored to a natural stream condition. During construction the stream water will be diverted around the construction site alongside the existing spillway. The reservoir will be graded to form a wide channel with sloped sides then grassed to stabilize the soil. Grassing will also be planted in the area upstream of the constructed channel for erosion control. In addition, check dams will be installed within the realigned stream and after the rip-rap apron wall to filter out sediment before discharging downstream of the existing reservoir. When the grass is established, the bypass line will be removed and redirected to the new stream bed channel. A grouted riprap apron will be constructed to direct the flow to the stream below. Short-term impacts will occur during construction from noise, dust and water turbidity. However, these impacts will be mitigated by the use of best management practices and erosion controls. Overall, the construction will not negatively affect any infrastructure, public facilities, utilities, social and economic factors but aid in the preservation of the natural resource.

8. Piilani Highway Widening Project, Kilohana Drive to Wailea Ike Drive (DEA)

- Island:** Maui
- District:** Makawao
- TMK:** (2) 2-1
- Permits:** Construction, Work Within State Right-of-Way
- Applicants:** (1) Honuaula Partners, LLC, P.O. Box 220, Kihei, HI 96753. Charles Jencks, 879-5205
(2) A&B Wailea LLC, 11 Puunene Avenue, Kahului, HI 96732. Randy Endo, 877-5523
(3) Keaka LLC, 2005 East Main Street, Wailuku, HI 96793. Don Fujimoto, 244-1500
(4) ATC Makena Holdings LLC, c/o Stanford Carr Development, LLC, 1100 Alakea Street, 27th Floor, Honolulu, HI 96813. Rebecca Broudy Collin, 537-5220

Approving

- Agency:** State Dept of Transportation, 869 Punchbowl Street, Honolulu, HI 96813. Michael Formby, Interim Director, 587-2150
- Consultant:** Munekiyo & Hiraga, Inc., 305 High Street, Suite 104, Wailuku, HI 96793. Gwen Ohashi Hiraga, Principal, 244-2015
- Comments:** DEA 30-day comment period starts from the date of this Notice. Address comments to the Applicants, with copies to the Approving Agency and Consultant

Honuaula Partners, LLC, A&B Wailea LLC, Keaka LLC and ATC Makena Holdings LLC, in coordination with the State Department of Transportation, Highways Division, proposes to implement the construction of two (2) additional lanes and related improvements to Piilani Highway from approximately 1,000 ft. to beginning of taper north of Kilohana Drive to Wailea Ike Drive at Piilani Highway's existing terminus. Proposed improvements include excavation and embankment work, widening of the road, construction of curbs, gutters, sidewalks, drainage systems, storm water retention systems, retaining walls, sound attenuation walls, relocation of electrical transmission lines, guard rails, installation of utilities as may be necessary, and adjustment to existing utilities, including the relocation of existing waterlines, as needed. Reconstruction of the existing traffic signal on Piilani Highway at Kilohana Drive and Mapu Place, installation of new traffic signals at Okolani Drive and Mikioi Place, and at Piilani Highway and Wailea Ike Drive are also proposed.

THE ENVIRONMENTAL NOTICE

A semi-monthly periodic bulletin published by the Office of Environmental Quality Control pursuant to
Section 343-3,
Hawaii Revised Statutes

May 23, 2011

HAWAII (HRS 343)

1. Chin Chuck Road Future Reservoir and Well Site FEA 2
2. Kea'au-Pāhoa Road Improvements FEA 2
3. Hokuloa United Church Of Christ Draft Environmental Assessment 3

MAUI (HRS 343)

4. Kolea Reservoir Removal FEA 4

O'AHU (HRS 343)

5. McKinley High School Athletic Complex Master Plan FEA 5
6. Replacement of Mākaha Bridges No. 3 and No. 3A FEA 6
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8. Kaneohe-Kailua Wastewater Conveyance and Treatment Facilities FEIS 7

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The *Environmental Notice* informs the public of environmental assessments and other documents that are available for review and comment per HRS 343-3 and is issued on the 8th and 23rd of each month on the Office of Environmental Quality Control's website. If you would like to be notified when it is issued, send us your email address and we'll put you on our mailing list.



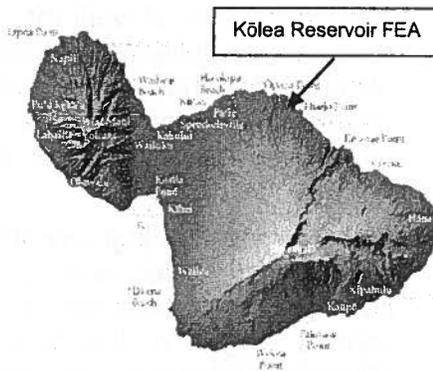
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974-4000 ext. 64185

District with adjacent State land. In general, no adverse long-term impacts are expected to result from the action. Shoreline resources would be protected and enhanced by the action through gradual restoration of native and Polynesian vegetation and accommodation of a public shoreline trail. Landscaping activities will not use heavy equipment and will be mitigated by their gradual nature and timing restrictions. Archaeological survey found no sites, and the project supports historic preservation, but work will be immediately halted if unidentified sites, artifacts, or burials are unexpectedly encountered.

MAUI (HRS 343)

4. Kōlea Reservoir Removal FEA (FONSI)

Island: Maui
District: Hana
TMK: (2) 1-1-001:050
Permits: Department of Health 401 Water Quality Certification, Conservation District Use Permit (CDUP), Department of Land and Natural Resources (DLNR) Dam Safety Permit, Department of Land and Natural Resources (DLNR), Commission of Water Resource Management Stream Channel Alternation Permit (SCAP) and Stream Diversion Works Abandonment Permit, U.S. Army Corp of Engineers Section 10/404 Permit, Department of Business, Economic Development and Tourism, Office of Planning, Coastal Zone Management (CZM) Federal Consistency



Proposing Agency: Public Works Division, Department of Accounting & General Services, 1151 Punchbowl Street, Honolulu, Hawai'i 96813. Contact: Mr. Ernest Y.W. Lau, (808) 586-0526

Approving Agency: State of Hawai'i, Department of Land & Natural Resources, Land Division, 1151 Punchbowl Street, Room 220, Honolulu, Hawai'i 96813. Contact: Russell Y. Tsuji, (808) 587-0422

Consultant: Derrick Elfalan, P.E., Civil Engineer, Oceanit Laboratories, Inc., 828 Fort Street Mall, Suite 600, Honolulu, Hawai'i 96813. Contact: (808) 531-3017, Fax: (808) 531-3177

Status: Final Environmental Assessment (FEA) and Finding of No Significant Impacts (FONSI)

The Kōlea Reservoir is no longer required for storage of stream water for irrigation and will be removed and restored to a natural stream condition. During construction the stream water will be diverted around the construction site alongside the existing spillway. The reservoir will be graded to form a wide channel with sloped sides then grassed to stabilize the soil. Grass will also be planted in the area upstream of the constructed channel for erosion control. In addition, check dams will be installed within the realigned stream and after the rip-rap apron wall to filter out sediment before discharging downstream of the existing reservoir. When the grass is established, the bypass line will be removed and redirected to the new stream bed channel. A grouted riprap apron will be constructed to direct the flow to the stream below. Short-term impacts will occur during construction from noise, dust and water turbidity. However, these impacts will be mitigated by the use of best management practices and erosion controls. Overall, the construction will not negatively affect any infrastructure, public facilities, utilities, social and economic factors but aid in the preservation of the natural resource.

DAM SAFETY PERMIT GENERAL CONDITIONS

APPROVAL OF PLANS AND SPECIFICATIONS FOR DAM AND RESERVOIR CONSTRUCTION, ENLARGEMENT, REPAIR, ALTERATION OR REMOVAL

The following General Conditions shall be adhered to for all Dam Safety permits unless otherwise authorized in writing.

1. Actual construction, enlargement, repair, alteration or removal shall be completed within 5 years of issuance of the permit application approval unless an extension authorized in writing by the Board is issued.
2. Prior to the start of work the owner or applicant shall provide a construction engineer to ensure compliance with the approved plans and specifications and who shall have ultimate responsibility for the supervision of all inspection tasks. The construction engineer may assign some inspection tasks to a duly authorized agent under the construction engineer's supervision. The engineer shall be licensed in the State of Hawaii.
3. The construction engineer shall maintain a record of construction that at a minimum, shall include, daily activity, and progress reports, all test results pertaining to construction; photographs sufficient to provide a record of foundation conditions and various stages of the construction through completion, all geologic information obtained; and construction problems and remedies.
4. A construction quality assurance plan shall be prepared and submitted to the Department for approval prior to the start of construction, which details the minimum requirements of the construction engineer's observation of construction.
5. A construction schedule, which includes the notice to proceed date and estimated project duration and a construction emergency action plan shall be submitted prior to the preconstruction meeting.
6. A preconstruction meeting shall be held subsequent to submitting the quality assurance plan, construction schedule and construction emergency action plan, but not later than 14 days prior to the start of construction. All parties actively involved in the construction should be requested to attend, such as the dam owner, the design engineer, the construction engineer, the contractor and the Department.
7. The Department shall be notified 5 calendar days prior to the commencement of construction.
8. Any changes from the approved plans and specifications shall be approved by the design engineer and a change order, including details and supporting calculations, must be provided to the Department. Major changes must be submitted in writing with supporting documentation and approved in writing by the Department. No work shall be initiated until the approval by the Department or Board is received. Minor changes may be transmitted verbally and approved by the Department verbally provided that documentation of the change is provided to the Department within 10 days of the approval.

9. For new dam construction and for dams and reservoirs that have lowered the water level or have been drained to facilitate construction, the construction engineer shall file and obtain approval of a filling plan with the Department. The applicant/owner shall not proceed with the filling of the reservoir until it receives permission from the Department. The construction engineer shall provide documentation of monitoring during the filling operation.
10. Prior to the filling of the reservoir, the construction engineer shall submit one copy each of the approved Operations Manual and the approved Emergency Action Plan for the facility upon completion of the project as applicable.
11. The construction engineer shall give the Department at least ten days advanced notice of initial materials placement of the dam's foundation, in the cutoff trench, outlet backfill, outlet foundation, and any appurtenance requested by the Department in the approval of the plan for construction observation, to allow for observation by the Department.
12. Notice of substantial completion shall be issued by the construction engineer to the Department stating that the permitted improvements are functionally complete such that filling of the reservoir can be initiated with an approved filling plan.
13. The construction engineer shall give the Department fifteen (15) calendar days advance written notice prior to the project's final construction inspection. The construction engineer shall coordinate with the Department to conduct this inspection in the presence of the Department's dam safety personnel.
14. The construction engineer shall provide notice at least ten (10) days prior to initiating filling the reservoir, unless agreed at the final inspection.
15. If conditions are revealed which will not permit the construction, enlargement, repair, alteration, or removal of a safe dam or reservoir, the application for approval for construction, enlargement, repair, alteration, or removal shall be revoked.
16. A topographic survey of completed work including all monuments, inverts, crest alignment, spillways, and significant appurtenant features, when required by the Department shall be completed.
17. The applicant/owner shall utilize appropriate erosion control best management practice measures during construction to minimize turbidity (such as scheduling of work during period of low stream flow) and prevent debris and construction materials, including concrete, petroleum products, and other pollutants from enter the waters of the State. Construction related water and debris should be properly disposed of in a legal and environmentally safe manner and in accordance with the Department of Health and other Federal regulations.
18. The applicant/owner shall submit a copy of the dam safety application and the plans and specifications of the proposed improvements to the County Engineer of the County for which the dam resides for compliance with County codes.
19. Within fifteen (15) calendar days of completing the project, the applicant/owner or its representative shall provide the Department with a confirmation letter of compliance, signed and stamped by the construction engineer, indicating that the construction

was completed in accordance to approved plans and specifications including any field changes. The construction engineer shall submit the remaining construction completion documents which may include, but not be limited to, as-constructed drawing, final construction report, topographic survey, record of the location of permanent monuments, log of recorded water levels and other readings from the refilling operation, long-term instrumentation monitoring plan, and affidavit showing the actual cost of construction including engineering costs, within 60 calendar days of the submittal of the final construction inspection.

20. Construction completion documents and the construction engineer's certification shall be provided to the Department within 60 days of the final construction inspection. The Department will review the submitted items and furnish acceptance or denial within 60 days of receipt of satisfactorily completed construction completion documents and close out the dam safety permit.
21. This permit does not relieve the applicant/owner of their obligations to comply with all applicable Federal, State, and County regulations.