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

January 13, 2017

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

APPLICATION FOR A DLNR DAM SAFETY
PERMIT NO. 75 – LOWER ANAHOLA RESERVOIR (KA-0066)
DAM REMOVAL, ANAHOLA, KAUA'I, HAWAI'I

The Engineering Division (Division) hereby submits an application for your approval and
authorization for the Chairperson and Department to stipulate conditions and issue a Dam Safety
Permit for the subject application, LOWER ANAHOLA RESERVOIR – DAM REMOVAL,
pursuant to Hawaii Revised Statutes Chapter 179D and current Administrative Rules.

APPLICANT:
Mr. Kenneth Rappolt
Lyon Associates, Inc.
45 N. King Street
Honolulu, HI 96817

LAND OWNER:
Ms. Jobie Masagatani
State of Hawaii
Department of Hawaiian Home Lands
91-5420 Kapolei Parkway
Kapolei, HI 96707

SUMMARY OF REQUEST:
Application for a Dam Safety Permit for the dam removal of the Lower Anahola Reservoir,
Anahola, Kauai, Hawaii. (See Exhibit 1)

LOCATION: Anahola, Kauai, Hawaii, TMK: (4) 4-7-004:002 (See Exhibit 2)

BACKGROUND:
The Lower Anahola Reservoir was completed in the 1920’s for irrigation purposes and is now
owned by the State of Hawaii, Department of Hawaiian Home Lands (DHHL). The Lower
Anahola Reservoir, downstream of the Upper Anahola Reservoir, is not currently being used.
DHHL is proposing to remove the Upper Anahola Reservoir. No documentation relating to the
original design, construction, or subsequent repair or maintenance work is available for this
structure.
DESCRIPTION:
DHHL proposed to permanently remove (breach) the Lower Anahola Reservoir. The proposed work provides a 100-ft wide bottom width channel excavated to the original ground elevation. This will render the existing impoundment incapable of storing water as a dam pursuant to Hawaii Administrative Rules Chapter 13-190.1. The upstream and downstream entrance to the existing outlet tunnel will be permanently sealed. The existing spillway will be abandoned and partially filled with excess materials. (See Exhibit 3)

CHAPTER 343-HRS – ENVIRONMENTAL ASSESSMENT:
The Department of Hawaiian Home Lands conducted a HRS-343 environmental assessment evaluation of the project and has concluded that the action is exempt from the preparation of an environmental assessment pursuant to Exemption Class #1 item 2(c)(i) on their Exemption List dated June 30, 2015 and will have minimal or no significant impact on the environment. (See Exhibit 4)

HAWAII REVISED STATUTES CHAPTER 6E-8 HISTORIC PRESERVATION REVIEW
The Department of Hawaiian Home Lands consulted with the State Historic Preservation Division (SHPD) for compliance with the Chapter 6E-8 requirements. Historic American Engineering Records (HAER) has been completed in compliance with SHPD. Mitigation has been completed and accepted and SHPD requires no further work or consultation. (See Exhibit 5)

REMARKS:
The applicant (Lyon Engineering, Inc.) and the owner, the Department of Hawaiian Home Lands, have completed a basis of design, plans and specifications and requests for the approval of a dam safety permit. The Division has reviewed the documents and concluded that it is sufficient for its intended purposes. Staff recommends approval of this permit application with the Dam Safety General Permit Conditions. (See Exhibit 6)

RECOMMENDATION:

That the Board:

1. Authorize the approval and issuance of the Dam Safety Permit for this project;

2. Authorize the Chairperson to issue a Dam Safety Permit for the removal of the Lower Anahola Reservoir (KA-0066) (DLNR Dam Safety Permit No. 75) 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 performance of the permitted work and take appropriate action including but not limited to issuance of fines and/or revocation of the permit, if necessary; and
4. Authorize the Department to remove this dam from dam safety regulatory inventory and the requirements of Hawaii Revised Statutes Chapter 179D, upon satisfactory completion of the construction project.

Respectfully submitted,

CARTY S. CHANG
Chief Engineer

APPROVED FOR SUBMITTAL:

SUZANNE D. CASE
Chairperson

Exhibit(s):
1. Owner Permit Application
2. Location map
3. Construction Drawing pages
4. Chapter 343-HRS Review
5. HRS Chapter 6E-8 Review
6. General permit conditions
DLNR-Dam Safety-Sheet 1

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

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

Applicant: Lyon Associates, Inc. 
Contact Name: Kenneth Rappolt, P.E. Firm / Company: Lyon Associates, Inc.

Date of Application 12-31-2015

Mailing Address 45 N. King Street, Honolulu, HI 96817

Telephone: 808 536 6621 fax: 808 523 1738 Email: ken.rappolt@lyon.us.com

The Applicant hereby applies to the Board of Land and Natural Resources for the approval of the attached plans and specification for rehabilitation and down-sizing of a dam 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:

1. Filing fee equal to 2% of the Detailed Cost Estimate + Eng costs w/ calculation x
2. Two (2) copies of the Detailed Cost Estimate x
3. Two (2) copies of the Final Design Report x
4. Two (2) copies of the Plans+ x
5. Two (2) copies of the Specifications x
6. Proposed Construction Schedule Attachment D x
7. Supporting documents:
   USCG Topographic Map x
   Property Tax Map x
   Rainfall Intensity and PMP x

NAME OF STRUCTURE: LOWER ANAHOLA RESERVOIR

DAM OR RESERVOIR LOCATION: ANAHOLA, 22 07 42"N. 159 18’ 50"W
Island: KAUAI
Tax Map Key: (4)4-7-004:002
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
Remove/fill existing dam. Excavate spillway to natural ground level to construct a permanent breach.
Plug existing outlet tunnel.

Exhibit 1
TECHNICAL INFORMATION:

1. Drainage Area ____________ sq. miles or 86.9 ________ acres

2. Classification of Dam (Hazard/Size): Low Hazard/Small

3. Type of Structure: Earthen Dam

4. Elevation-Area-Capacity Data: 
   
<table>
<thead>
<tr>
<th>Elevation</th>
<th>Surface Area (acres)</th>
<th>Total Storage Volume (acre-feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Streambed Primary</td>
<td>212’</td>
<td>7.4</td>
</tr>
<tr>
<td>Spillway (Existing-to be removed)</td>
<td>230’ msl</td>
<td></td>
</tr>
<tr>
<td>Secondary Spillway</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Top of Dam (Existing-to be removed)</td>
<td>240’ msl</td>
<td>10.7</td>
</tr>
<tr>
<td>Design Water Level</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Invert of Drain</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

5. Spillway Details (Type, Dimensions, Material)
   
   | Primary: | N/A |
   | Secondary: | N/A |

6. Purpose of Structure: N/A
   (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):

ADDITIONAL INFORMATION

1. Primary Owner Contact (if different from applicant): Mr. Kaipo Duncan
   
   Owner Company or Entity: Dept. of Hawaiian Home Lands
   
   Mailing Address: 91-5420 Kapolei Parkway, Kapolei, HI 96707
   
   Telephone: 808 620 9458 Fax: 808 620 9497 Email: kaipo.duncan@hawaii.gov

2. Registered Hawaii Professional Engineer who prepared the plan: Kenneth Rappolt, P.E.
   
   Mailing Address: Lyon Associates, Inc., 45 N. King Street, Honolulu, HI 96817
   
   Registration No. 5049-C Tel: 808 536 6621 Fax: 808 523 1738

3. Registered Engineer to be responsible for inspection during construction: Ron Gonzales, P.E.

4. Contractor (If known): Not known
   
   Mailing Address: Telephone:

5. List all other permits applications submitted to other governmental agencies:
   
   DCAB Review, State of Hawaii
   DOH Notice of Intent Form C - NPDES
   Kauai County, Dept. of Public Works

6. Anticipated effect of proposed structure on natural environment: No change.

7. 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
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 13-190.1, Hawaii Administrative Rules. (Submit additional copies of this sheet should there be more owners)

Department of Hawaiian Home Lands

By: __________________________
Jobie M.K. Masagatani
Chairman, Hawaiian Homes Commission

91-5420 Kapolei Parkway
Kapolei, Hawaii 96707
Owner

(Address / TMK/Interest in Dam or Reservoir)

I, Kenneth M. Rappolt, P.E., 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 five (5) years of the approval date, unless specifically permitted in the approved permit terms and conditions.

Kenneth M. Rappolt, P.E.,
Sr. Project Manager
Lyon Associates, Inc.

(Signature and title)

Date: 12-31-2014
July 29, 2015

SUBJECT: HRS 343 Exemption Declaration

PROJECT: Anahola Reservoirs Improvements Project
LOCATION: Anahola, Kauai, Hawaii
TMK: (4) 4-7-002: 004 and (4) 4-7-004: 002

AGENCY OR APPLICANT ACTION

Check applicable box

☑ This exempted action is an agency action as defined by Section 343-5(B), HRS, and Section 11-200-5, HAR.
☐ This exempted action is an applicant action as defined by Section 343-5(C), HRS, and Section 11-200-6, HAR.

SPECIFY EXEMPTION CLASS

Check applicable box

☑ The Exemption Declaration for the action described below is based on the Exemption List for the Department of Hawaiian Home Lands, reviewed and concurred to by the Environmental Council on June 30, 2015.

• Exemption List Class # 1: “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.”
  ○ 2(c)(i): Water system components such as pumps, valves and controls, pipes and channels, water storage tanks, wells and other water sources.

☐ The Exemption Declaration for the action described below is based on the consultation process prescribed by Section 11-200-8(a), Hawai‘i Administrative Rules (HAR), Exemption Class ___, (description of exemption)
PROJECT: Anahola Reservoirs Improvements Project
LOCATION: Anahola, Kauai, Hawaii
TMK: (4) 4-7-002: 004 and (4) 4-7-004: 002

DESCRIPTION OF ACTION

Proposing Agency: DHHL-Land Management Division
Project Name and Location: Anahola Reservoirs Improvements Project
Anahola, Kauai, Hawaii
Anticipated Start Date: January 2016
Anticipated End Date: December 2016
Island and District: Kauai, Anahola
Tax Map Key(s): (4) 4-7-002: 004 and (4) 4-7-004: 002
All Necessary Permits and Approvals:
- Dam Safety Permit
- County of Kauai Grading Permit
- State Dept of Health NPDES Permit
- State Historic Preservation Division Chapter 6E Review

NARRATIVE

The purpose of the project is to bring the four DHHL-owned water storage facilities in Anahola, Kauai into compliance with the “Hawaii Dam and Reservoir Safety Act of 2007”, HRS Chapter 179D (Dam Safety Program). The project includes repairs and improvements to the following four (4) earthen water reservoirs in Anahola, Kauai.

- Kealia Field #1 Reservoir (4-7-004:002) Repairs to Outlet Structure and Reduction in Storage Volume
- Kealia Field #2 Reservoir (4-7-004: 002) Partially Remove Embankment to Restore Natural Stream Flow
- Upper Anahola Reservoir (4-7-002: 004) Repairs to Outlet Structure and Reduction in Storage Volume
- Lower Anahola Reservoir (4-7-002: 004) Partially Remove Embankment to Restore Natural Stream Flow

While the storage capacity of the reservoirs will be temporarily reduced with the construction improvements, the total square footage of land area for all four reservoirs remains the same. The intent of the project is retain the potential of restoring the reservoirs to their original capacity once the water needs for the Anahola area have been determined. Maintenance roads and access for all four reservoirs will be preserved as part of this project.

RECEIVING ENVIRONMENT
The project area is within the Kamalomalo'o and Anahola ahupua'a, in an area that is characterized by flat plateaus divided by streams and gulches. All four reservoirs were constructed in the early 1900's to support the cultivation of sugar cane in the surrounding land.

Depending on elevation, the area gets approximately 48-100 inches of rainfall per year.

Between Kuhio Highway (paved) and Kealia Road (dirt), predominant soils are Lihue silty clay soils (LhB, LhC, LhD, and LHE2). These are well-drained soils found from sea level to about 800 feet in elevation, and they support vegetation such as lantana, guava, koa haole, joee, kikuyu grass, molasses grass, guinea grass, Bermuda grass and Java plum.

Between the old Kealia Landing Strip and Kealia Road the soils are mostly Puhi silty clay soils (PnB, PnC, PnD, PnE). These are also well-drained and are found in level to steep areas from 175 to 500 feet in elevation.

From the Kealia Landing Strip mauka to the Kealia Forest Reserve the soils are predominantly Kapaa silty clay soils (KkB, KkC, KkD, KkE) that support ricegrass, hilograss, yellow foxtail, Christmas berry, false staghorn fern, guava, rhodomyrtus and melastoma. In the past 20 years this area has become almost completely overrun with invasive Albizia trees and Guinea grass.

During the plantation days, the sugar cane fields mauka from the Kealia Landing Strip were mostly non-irrigated, while those Makai were dependent on man-made irrigation canals. The reservoirs and dams in this project were most likely constructed to support the irrigation needs of the fields in the drier lower elevations.
ENVIRONMENTAL ANALYSIS

I have considered the potential effects of the proposed project and all related activities against the criteria checked below:

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Not Applicable</th>
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<tbody>
<tr>
<td>☒ Land Use and Zoning Conformance</td>
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<tr>
<td>☒ Traffic (Vehicles, Bicycles, Pedestrian)</td>
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<td>☒ Infrastructure (Roads, Buildings, Utilities)</td>
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<td>☒ Air Quality Pollutant Emissions</td>
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<td>☒ Noise Emissions</td>
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<tr>
<td>☒ Solid, Hazardous, and Liquid Waste Management</td>
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<tr>
<td>☒ Social</td>
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<td>☒ Economic</td>
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<td>☒ Health and Safety</td>
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<td>☒ Recreation</td>
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<td>☒ Public Beach Access</td>
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<td>☒ Cultural Resources and Practices</td>
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<td>☒ Visual/Aesthetic</td>
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<td>☒ Environmental Justice</td>
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<td>☒ Rare, Threatened, and/or Endangered Species</td>
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<td>☒ Surface and Ground Water Resources</td>
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<td>☒ Wetlands</td>
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<td>☒ Floodplains</td>
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<td>☐ Riparian/Coastal Resources</td>
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<tr>
<td>☒ Other (Historical Architecture, see attached Limited Survey Report)</td>
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The proposed project will not have significant negative impact on the above criteria.
PROJECT: Anahola Reservoirs Improvements Project
LOCATION: Anahola, Kauai, Hawaii
TMK: (4) 4-7-002: 004 and (4) 4-7-004: 002

MITIGATION

The proposed construction improvements are located within the limits of the existing reservoir structures, so impacts on natural and cultural resources would be minimal. Impacts such as noise and dust traffic due to the construction would be temporary, only during the construction activity.

Since the purpose of the project is to reduce the capacity of the reservoirs, there is a corresponding reduction in the risk and vulnerability of a dam failure on the homes and properties located downstream thereby increasing the safety to residents, leasees and landowners.

EXEMPT DECLARATION

The direct, cumulative, and potential impacts of the action described above have been considered pursuant to Chapter 343, Hawaii Revised Statutes and Chapter 11-200, Hawaii Administrative Rules. I declare that the action described above will have minimal or no significant impact on the environment and is therefore exempt from the preparation of an environmental assessment.

This document is on file in our office and is available for public review.

Aloha,

Jobie M. K. Masagatani, Chairman
Hawaiian Homes Commission

Attachment: Limited Archaeological & Historic Survey, Anahola Reservoirs Improvement Project, September 4, 2014

c: Land Management Division (via email)
October 6, 2016

Kaipo Duncan
Department of Hawaiian Homelands
Land Management Division
PO Box 1879
Honolulu, HI 96805

RE: Hawaii Revised Statutes (HRS) Chapter 6E-8 Historic Preservation Review
Agency: Department of Hawaiian Homelands (DHHL)
Project Name: Repair and Replacement of DHHL Reservoirs in Anahola
Anahola Ahupuaa, Kawaihau District, Island of Kauai
TMK: (4) 4-7-002:004 and (4) 4-7-004:002

Dear Mr. Duncan:

On July 12, 2016, the State Historic Preservation Division (SHPD) received a submittal from Mason Architects, which included Historic American Engineering Records (HAERs) for the Lower Anahola Reservoir, Kealia No. 2 Reservoir, Kealia No. 1 Reservoir, and Upper Anahola Reservoir. SHPD has reviewed the submittal and determined that it is consistent with the requirements of our letter (2015.02266/1507MN18) dated August 19, 2015. Therefore, the mitigation has been completed and accepted and SHPD requires no further work or consultation. Please submit a final copy of the HAER documentation to Mary McPartland, (mary_mcpartland@nps.gov) at the National Park Service, Washington, D.C. office so that it may be added to the Library of Congress collection.

DHHL is the office of record for this undertaking. Please maintain a copy of this letter with your environmental review record. If you have any questions about this undertaking or if there is a change to the scope of work, please contact Jessica Puff, Architectural Historian, at (808) 692-8023 or by email at jessica.l.puff@hawaii.gov.

Mahalo,

[Signature]

Dr. Alan Downer
Deputy State Historic Preservation Officer

CC: Kaipo Duncan, DHHL, Kaipo.Duncan@hawaii.gov
Polly Tice, Mason Architects, pt@masonarch.com
Ken Rappolt, Lyon, Ken.Rappolt@LYON.US.COM
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.