

CONTRACTOR SUBMITTAL TRANSMITTAL FORM

Owner: County of Hawaii
Contractor: Nan, Inc.
Project Name: Hilo WWTP Phase 1
Submittal Title: Bird Survey *For Information Only*
To: Owner
From: Nan Inc.

Date: 5/19/2025
Project No.: WW-4705R
Submittal Number: 01150-002.0

Note: This is is a informational submittal for bird surveying

Specification No. and Subject of Submittal / Equipment Supplier			
Spec #:	1150	Subject:	Bird Survey *For Information Only*
Authored By:	Matthew Chun	Date Submitted:	5/19/2025

Submittal Certification		
Check Either (A) or (B):		
<input type="checkbox"/> (A)	We have verified that the equipment or material contained in this submittal meets all the requirements specified in the project manual or shown on the contract drawings with no exceptions.	
<input type="checkbox"/> (B)	We have verified that the equipment or material contained in this submittal meets all the requirements specified in the project manual or shown on the contract drawings except for the deviations listed.	
Certification Statement: By this submittal, I hereby represent that I have determined and verified all field measurements, field construction criteria, materials, dimensions, catalog numbers and similar data, and I have checked and coordinated each item with other applicable approved shop drawings and all Contract requirements.		
General Contractor's Reviewer's Signature:		
Printed Name and Title:	Matt Chun, QC	
In the event, Contractor believes the Submittal response does or will cause a change to the requirements of the Contract, Contractor shall immediately give written notice stating that Contractor considers the response to be a Change Order.		
Firm:	Signature:	Date Returned:

PM/CM Office Use
Date Received GC to PM/CM:
Date Received PM/CM to Reviewer:
Date Received Reviewer to PM/CM:
Date Sent PM/CM to GC:

Nan, Inc

PROJECT: HILO WWTP REHABILITATION
AND REPLACEMENT PROJECT - PHASE 1

JOB NO. WW-4705R

THIS SUBMITTAL HAS BEEN CHECKED BY
THIS CONTRACTOR. IT IS CERTIFIED
CORRECT, COMPLETE, AND IN
COMPLIANCE WITH CONTRACT
DRAWINGS AND SPECIFICATIONS. ALL
AFFECTED CONTRACTORS AND
SUPPLIERS ARE AWARE OF, AND WILL
INTEGRATE THIS SUBMITTAL (UPON
APPROVAL) INTO THEIR OWN WORK.

DATE RECEIVED 5/15/2025
SPECIFICATION SECTION # 01150
SPECIFICATION Mitigation and Monitoring Requirements
PARAGRAPH N/A
DRAWING N/A
SUBCONTRACTOR Lohe Bioacoustics Lab UH Hilo
SUPPLIER N/A
MANUFACTURER N/A

CERTIFIED BY: M. Chun



May 15, 2025

To: Jason Tagawa
Nan Inc.

From: Patrick Hart

Subject: Bird survey, Hilo WWTP Rehabilitation and Replacement Project, Island of Hawai'i

Dear Jason,

This report summarizes the findings of a survey for birds, including Hawaiian Hawks ('io; *Buteo solitarius*), Hawaiian Short-eared Owl (pueo; *Asio flammeus*), and Hawaiian Goose (nēnē; *Branta sandwicensis*) that was conducted by Patrick Hart from the UH Hilo LOHE Lab on May 12, 2025 within the Hilo WWTP Rehabilitation and Replacement Project area. 'Io typically nest in large trees within forested areas, but have occasionally been known to build nests near inhabited areas and busy roadways. Nests are often easily detected as large platforms of sticks and twigs in tall trees. Pueo are typically found in open habitats across Hawai'i island, whereas nēnē are commonly found in or near wetlands and a variety of other habitat types.

Surveys were conducted as outlined in the WWTP Site Location map I was provided on April 25, 2025. Much of the surveyed land is covered in a mix of medium statured native 'ōhi'a (*Metrosideros polymorpha*), trees, along with non-native albizia (*Falcataria moluccana*), trumpet tree (*Cecropia sp.*), bingabing (*Macaranga mappia*) and other introduced trees. I used 8x42 power binoculars to carefully scan the project area for 'io, pueo, and their nests. I also used a portable speaker to broadcast 'io and pueo vocalizations at 50m intervals within the project area, and listened for any behavioral responses. These recordings are known to strongly attract focal species during breeding season. A single 'io was detected flying over the project site during the first few minutes of the survey but was not seen again. No 'io or pueo responded to the broadcast vocalizations during the survey period, and I am confident that no nests of either species exist in the survey area. However, 'io certainly will continue to occasionally fly over this area and use the habitat for foraging. I am also confident that nēnē are highly unlikely to ever use the project area. Thank you, and please feel free to let me know if you have additional questions.

Sincerely,

Patrick Hart
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200 W. Kāwili Street
Hilo HI 96720
ph. 808-932-7182
Office: STB 115

pjhart@hawaii.edu
<http://LOHElab.org>

SECTION 01150

MITIGATION AND MONITORING REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Mitigation and monitoring requirements relating to environmental impacts.

1.02 SUBMITTALS

- A. General: Submit data as specified in Section 01330 - Submittal Procedures.
- B. Dust control management plan.
- C. Qualifications of wildlife biologist performing Hawaiian geese surveys.

PART 2 MITIGATION AND MONITORING REQUIREMENTS FOR ENVIRONMENTAL IMPACTS

2.01 AIR QUALITY

- A. Contractor's dust control activities shall comply with the provisions of Hawaii Administrative Rules, § 11-60.1-33 on Fugitive Dust.
- B. Contractor shall develop and implement a dust control management plan that identifies and mitigates all activities that may generate airborne, visible fugitive dust. The plan shall include, but is not limited, to the following requirements.
 - 1. All exposed surfaces such as parking area, staging areas, soil piles, graded areas, and unpaved access roads, shall be watered 2 times per day.
 - 2. All haul trucks transporting soil or other loose material off site shall be covered.
 - 3. All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day.
 - a. The use of dry power sweeping is prohibited.
 - 4. All vehicle speeds on unpaved roads shall be limited to 15 miles per hour.
 - 5. All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible after grading unless seeding or soil binders are used.
 - 6. Idling times shall be minimized either by shutting equipment off when not in use or by limiting the maximum idling time to 5 minutes. Clear signage shall be provided for construction workers at all access points.
 - 7. Construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications.
 - a. Equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.
 - 8. A publicly visible sign shall be posted with the telephone number and person to contact at the County regarding dust complaints.

- C. Contractor shall adhere to all air quality standards. Contractor shall obtain any required air pollution control permits from the DOH Clean Air Branch and comply with all applicable conditions and requirements.
- D. Prevent dust nuisance caused by operations, unpaved roads, excavation, backfilling, demolition, or other activities. Whenever visual observation of dust is detected by the Contractor or Engineer outside the property boundary, a dust problem is considered to exist. The Contractor shall take immediate action to alleviate this problem.

2.02 BIOLOGICAL RESOURCES

- A. Contractor shall understand that there is a possibility that animals may be present within the construction area. Intentional disturbance of animals present in the construction area is prohibited.
- B. Contractor shall follow the current Biosecurity Protocol for Hawaii Island established in the PEP-Environmental Compliance Memorandum No. 20-5 issued by the Office of Environmental Policy and Compliance and Office of Native Hawaiian Relations.
- C. Contractor shall not disturb, remove, or trim any woody plants greater than 15 feet tall during the period from June 1 through September 15.
- D. Contractor shall not use any barbed wire.
- E. Contractor shall not perform any nighttime construction activities during the period from September 15 through December 15.
- F. All night-time lighting shall be pointed, adjusted, and shielded to ensure no light escapes in an upward direction or off site.
- G. If Hawaiian geese are found to be located on or near to the project site, the Contractor shall comply with the following:
 - 1. Project personnel shall not approach, feed, or disturb the Hawaiian geese.
 - 2. If Hawaiian geese are observed loafing or foraging within the project area during the breeding season (September through April):
 - a. Contractor shall cease all work immediately.
 - b. Contractor shall provide a biologist familiar with Hawaiian geese nesting behavior to survey for nests in and around the project area prior to the resumption of any work. The biologist shall repeat surveys after any subsequent delay of work of 3 or more days.
 - 3. If a nest is discovered within a radius of 150 feet of the construction site or a previously undiscovered nest is found within the 150-foot radius after work begins, all work shall cease immediately. The Contractor shall contact the Owner for further guidance.
 - 4. In areas where Hawaiian geese are known to be present, reduced speed limits will be posted by the Owner and enforced. Contractor will be informed of the presence of federally listed species on-site.

2.03 CULTURAL RESOURCES

- A. Contractor shall cease all construction related activities immediately and notify the Engineer upon any cultural resource discoveries, such as walls, platforms, pavements and mounds, or remains such as artifacts, burials, and concentrations of shell or charcoal or artifacts. The Owner would then contact the State Historic Preservation Division who will assess the significance of the find and provide appropriate mitigation measures necessary to implement prior to approval for Contractor to proceed with any construction related activities.

2.04 HAZARDS AND HAZARDOUS MATERIALS

- A. As specified in Section 01354 - Hazardous Material Procedures.

2.05 NOISE

- A. Comply with noise and work hours regulations by local jurisdiction.
- B. In or near inhabited areas, particularly residential, perform operations in manner to minimize noise.
- C. In residential areas, take special measures to suppress noise during night hours.
- D. Contractor shall comply with noise control and mitigation requirements of the Hawaii State Department of Health Administrative Rules, Title 11, Chapter 46 "Community Noise Control" regulations.

PART 3 EXECUTION (NOT USED)

END OF SECTION