

KSHCP Participant Annual Report - Base Form				
Reporting Year	2022	Participant Name	Hawaii Department of Transportation	For participants with multiple facilities, indicate here the total number of facilities for which Base Forms have been produced. Complete the information Required to be Reported on each Base Form.
Item #	Relevant Requirement	Facility Name, Facility Type and Location	Facility Owner	Facility Contact Information (Name, phone, email)
		KSHCP Section 6.1.2, (P) Section M.1 (N), (U), (V), Section 6.1.1	Newell's Harbor, commercial maritime port facilities, Lihue, Hawaii	Hawaii Department of Transportation, Harbors Division
				Robert Cowell, Kauai Harbors District Manager PH: 808-243-2756, Email: Robert.Cowell@hawaii.gov and Chris Takemoto, Environmental Program Manager PH: 808-588-5204, Email: Chris.Takemoto@hawaii.gov
1		IP Section M (N)(U), Section 6.1	IP Number	IP Number
2			IP Number	IP Number
3			IP Number	IP Number
4			IP Number	IP Number
5			IP Number	IP Number
6			IP Number	IP Number
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22			IP Number	IP Number
23			IP Number	IP Number
24			IP Number	IP Number
25			IP Number	IP Number

25	KSHCP Section 6.6.1.4	Certification	<div><div><div>Check here if additional information provided on Addendum Sheet</div><div>I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of this report, the information is true, accurate, and complete.</div></div><div><div>Insert electronic signature in space above.</div></div></div>
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KSHCP Participant Annual Report - Addendum Sheet 1, 2022 Take Calculations, Nawiliwili Harbor

Reporting Year2022

Participant NameState of Hawaii, Department of Transportation

Kaui Seabird Habitat Conservation Plan U.S. Fish and Wildlife Service ITP No. TE74138D-0 and Hawaii Department of Land and Natural Resources ITL No. ITL-30

Use the space below to show the calculations used to estimate take of Covered seabirds at Nawiliwili Harbor in 2022.

Item #	Relevant Requirement			
4	ITP Section I/ITL Section II.D	2022 Calculation of Lethal and Non-Lethal Take - Nawiliwili Harbor		
		Take Estimation Parameter	NESH	HAPE BRSP
		Birds found alive, released from SOS	1	0
		Birds found dead or euthanized at SOS	0.00	0.00
		Discovery rate (75%–75, 50%–50, etc)	0.90	0.90
		Total annual take (found birds/disc rate)	1.11	0.00
		Lethal take (Observed+Unobserved)	0.23	0.00
		Non-lethal take	0.88	0.00

# KSHCP Participant Annual Report - Addendum Sheet 2, Predator Control at Nawiliwili Harbor

Reporting Year

2022

Participant Name

State of Hawaii, Department of Transportation

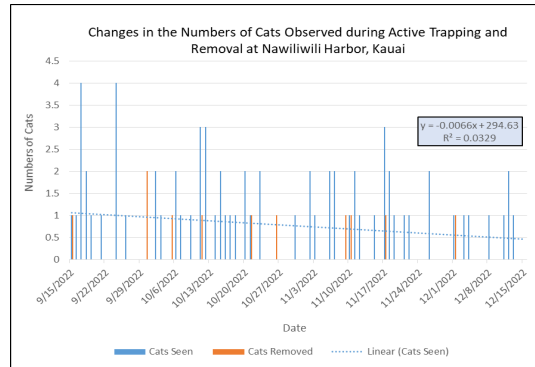
Kauai Seabird Habitat Conservation Plan U.S. Fish and Wildlife Service ITP  
No. TE74138D-0 and Hawaii Department of Land and Natural Resources ITL  
No. ITL-30

Relevant Requirement

Additional Information

Cats were observed by trained seabird searchers performing concurrent surveillance for cats at Nawiliwili Harbor on 45 of the 92 survey days in 2022 (49% frequency of occurrence). Numbers of cats observed ranged from 0-4 and averaged 0.76 cats per survey. Cats were observed throughout Nawiliwili Harbor but were encountered most frequently along the property boundary adjacent to the small boat harbor. Trapping effort consisted of deploying 2 traps per day, for 53 days (excluding Friday, Saturday, and Sunday) and amounted to 106 trap days. A total of 11 cats were captured and removed from Nawiliwili Harbor, yielding an overall capture success rate of 0.10 cats/trap night, or roughly 0.75 cats/week. The number of cats observed and the frequency in which cats were detected at Nawiliwili Harbor declined by roughly 56% over the course of the season. Although the pre-season survey duration was short, it did provide a baseline from which to evaluate the effectiveness of the manangement program at reducing the number of cats on property and thereby reducing depredation risk.

KSHCP Section 6.6.1.2.f,  
ITP Section M.vi (N.vi),  
ITL Section II.I.6.



Captures by Month	September	October	November	December
	3	4	3	1
Average Number of Cats	0.94 (range 0-4)	0.81 (range 0-3)	0.73 (range 0-3)	0.53 (range 0-2)

2022 Summary of Take of Covered Seabirds Documented at Nawiliwili Harbor, Kauai

Reporting Year: 2022

Participant Name: State of Hawaii, Department of Transportation

Kauai Seabird Habitat Conservation Plan U.S. Fish and Wildlife Service ITP No. T27413BD-0 and Hawaii Department of Land and Natural Resources ITL No. ITL-30

Complete these columns for each bird or honu nest found											Complete these columns for any honu nest found.		
Date Found	Time Found	Property or Facility	Describe Exact Location Where Found	GPS Latitude	GPS Longitude	Species (NESH, HAPE, BRSF)	File Name	SOS Reference Number	Disposition of Seabird (released by SOS, DOA, euthanized, if known)	Days in SOS Care	Honu Nest Found?	Describe Any Honu Nest Protection (Yes or No)	Disposition of Nest (if known)
26-Oct-2022	21:45	Nawiliwili Harbor	Pier 1 (Matson yard) alongside stacked container row	21° 57'19" N	159° 21'17" W	NESH	NESH_2022_10-26_HDOT-NAW	ANP069	Released	2		THIS SECTION DOES NOT APPLY TO HDOT	

# Summary of 2022 Seabird Awareness and Response Training at Nawiliwili Harbor, Kauai

Reporting Year	2022	Participant Name	State of Hawaii, Department of Transportation			
Kauai Seabird Habitat Conservation Plan U.S. Fish and Wildlife Service ITP No. TE74138D-0 and Hawaii Department of Land and Natural Resources ITL No. ITL-30						
Date of Training	Training Topic	Property or Facility	Training Group	Number of Attendees	Method of Training Delivery (e.g., video, in-person, educational materials)	Printed Materials or Other Media Provided
9/7/2022	Seabird Awareness, Rescue and Reporting	Nawiliwili Harbor	HDOT Harbors Division Staff and Site Security	6	MS-Teams Webinar	Yes. Training module and Fact Sheet, KSHCP Downed Wildlife Protocol and Incident Documentation and Reporting Form
9/10/2022	Combined Seabird Awareness and Reporting and Search and Recovery	Nawiliwili Harbor	H. T. Harvey & Associates monitoring team	2	In-person	Yes. Training module and Fact Sheet, KSHCP Downed Wildlife Protocol and Incident Documentation and Reporting Form
9/10/2022	On the ground searcher training and site familiarity exercises to facilitate searcher effectiveness and proficiency; lighting discussion and operational safety considerations	Nawiliwili Harbor	H. T. Harvey & Associates monitoring team	2	In-person	Yes, reference to Fact Sheet and other materials, photos, and review of past fallout patterns utilizing maps of fallout distribution
9/11/2022	Site-Specific Orientation for Search Team	Nawiliwili Harbor	H. T. Harvey & Associates monitoring team (included site security)	4	In-person	Yes. Maps, discussion of search area characteristics, historic fallout distribution, additional resources

# Summary of 2022 Outreach to Expand Awareness of Seabird Fallout and Reporting Procedures at Nawiliwili Harbor, Kauai

Reporting Year	2022	Participant Name	State of Hawaii, Department of Transportation	
Kauai Seabird Habitat Conservation Plan U.S. Fish and Wildlife Service ITP No. TE74138D-0 and Hawaii Department of Land and Natural Resources ITL No. ITL-30				
Outreach Dates	Description of Outreach Activities and Delivery Process	Property or Facility	Target Outreach Audience	Printed Materials or Other Media Provided
9/14/2022	Beginning of the season outreach with tenants on seabird light attraction fallout and procedures for notifying facility managers and HDOT personnel; review of proper rescue and reporting procedures, avoidance tips (searching around machinery quickly and efficiently before operations, situational awareness).	Nawiliwili Harbor	Matson supervisor and staff	Provided training module and Fact Sheet containing information to facilitate rescue, response, and reporting and enhance "train the trainer" capacity.
9/16/2022	Beginning of the season outreach with tenants on seabird light attraction fallout and procedures for notifying facility managers and HDOT personnel; review of proper rescue and reporting procedures, avoidance tips (searching around machinery quickly and efficiently before operations, situational awareness).	Nawiliwili Harbor	Young Brothers site manager and yard foreman	Provided training module and Fact Sheet containing information to facilitate rescue, response, and reporting and enhance "train the trainer" capacity.
Throughout the season	Periodic check-ins with HDOT Harbors Division staff at Nawiliwili Harbor, Matson, and Young Brothers to provide advance notice of periods of higher fallout probability, heighten awareness, and revisit fundamental elements of seabird awareness, rescue, response, and reporting requirements.	Nawiliwili Harbor	HDOT personnel and Nawiliwili Harbor tenants	Training modules and Fact Sheet
9/15/2022 and throughout the season	The seabird awareness Seabird Light Attraction Fact Sheet was posted in the main harbor office, in worker common areas, and on the bulletin board in staff break room in clear view of HDOT-H staff. The Fact Sheet was posted in common areas of the Young Brothers office and in the Matson office and staff staging area in the warehouse, in clear view of tenant staff, and in the security shack at the main entrance to Nawiliwili Harbor.	Nawiliwili Harbor	HDOT staff, Matson staff, and Young Brothers staff	Seabird Awareness Fact Sheet



### Seabird Light Attraction at Airports and Harbors



**Hawaiian petrel**  
Nestling Colonies  
Maui, Lanai, Kauai  
 fledgling Dates  
September to November



**Newell's shearwater**  
Nestling Colonies  
Kauai, Maui, Hawaii  
 fledgling Dates  
October and November



**Wedge-tailed shearwater**  
Nestling Colonies  
Coastal Areas State-wide  
 fledgling Dates  
November and December




**Band-rumped storm petrel**  
Nestling Colonies  
Kauai, Hawaii, Maui  
 fledgling Dates  
October and November

Inside nesting burrows since early summer, **fledgling seabirds leave the nest at night** and follow the moonlight to reach the open ocean where they learn to feed. They will not return for 3-4 years.

When the moon is dark, **bright lights at airports and harbors can attract fledgling seabirds** which sometimes collide with structures or become grounded.

**Grounded seabirds are vulnerable** to predators such as cats and dogs as well as machinery. This light attraction and grounding phenomena is called "fallout".

**THESE SPECIES ARE PROTECTED BY STATE AND FEDERAL LAW**





Facility lighting is required for safety and security and during operations



When the moon is full it exceeds the brightness of facility lighting

**Turn Off Non-Essential Bright Lights during Seabird Fallout Season September 15 – December 15**

### Handling and Reporting Downed Seabirds

#### Procedures for Rescuing Downed Seabirds

- Carefully approach the seabird from behind
- Gently wrap a small dry towel around its back and wings and place it inside a well-ventilated small animal carrier or box
- Write down **Date, Time, Specific Location** where the seabird was found, and the **Name and Contact Information** of the person who found it.

#### Reporting Downed Seabirds

**Kauai**  
**Lihue Airport** – Call Security Dispatch (808-274-3814) and ask for assistance from USDA Wildlife Services.

**Nawiliwili Harbor** – Call Harbor Security (808-278-0673) and SOS (808-635-5117)

**Port Allen Harbor** – Call Harbor Security (808-278-0673) and SOS (808-635-5117)

**Maui and Lanai**  
**Kahului Airport** – Call Security Dispatch (808-872-3875 and 3876) and ask for assistance from USDA Wildlife Services

**Lanai Airport** – Call USDA Wildlife Services (808-292-9387) and Maui Nui Seabird Recovery Project (808-573-2473)

**Kahului Harbor** – Call Harbor Security (808-227-9423) and Maui Nui Seabird Recovery Project (808-573-2473)

*Photo Credits: Maui Nui Seabird Recovery Project (A); L. Young (B); A. Raine (C); Hawaii DLR and USFWS (D, E, F); B. Yuen (G).*