

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 7-20-2026 Site Name: Upstream Site Time: 1021-1026

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☐ showers (intermittent)	☐ showers (intermittent)	
<u>100 %</u> cloud cover	<u>30%</u> cloud cover or less	
☐ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☐ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: clear, sediment at bottom

Water Color: clear

Estimated Depth: 1 in

Visibility: to bottom

Tide (if applicable): N/A

Notes: algae growth

SPECIES OBSERVATIONS

Fish Kill? Yes ☒ No # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes:

Species Observed	# of individuals	Behavior	Notes/Observations
common wax bill	5	Call	In vegetation next to stream
red-vented bulbul	8	Call	In trees next to stream
warbling white-eye	5	Call	In trees next to stream
common myna	1	Forage	In stream bed
spotted dove	1	Forage	In stream bed
red-vented bulbul	1	Forage	In stream bed
java sparrow	3	Forage	Vegetation next to stream
cat	1	Loaf	Under bridge
common wax bill	3	Loaf	On fence next to stream

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS:



20 July 2026

Photograph # 1:
Upstream Site
looking upstream.



Photograph # 2:
Upstream Site
looking
downstream.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 7/20/2026 Site Name: Discharge Site Time: 1002-1007

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☐ showers (intermittent)	☐ showers (intermittent)	
<u>70</u> % cloud cover	<u>30</u> % cloud cover or less	
☒ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☐ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: clear, sediment at bottom

Water Color: clear

Estimated Depth: 1 in

Visibility: to bottom

Tide (if applicable): N/A

Notes: Discharge pipe on. Low water flow and dry middle. Lots of vegetation rubbish.

SPECIES OBSERVATIONS

Fish Kill? Yes ☒ No # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes:

Species Observed	# of individuals	Behavior	Notes/Observations
common myna	1	bath	In stream water
red-vented bulbul	4	call	In trees next to stream
red-vented bulbul	2	forage	In trees next to stream
common myna	2	forage	In streambed
red-crested cardinal	1	forage	In stream water

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



20 July 2026

Photograph # 1:
Discharge Site
looking upstream.



Photograph # 2:
Discharge Site
looking
downstream.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 7/20/2026

Site Name: Downstream Site # 1

Time: 0914-0919

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☒ showers (intermittent)	☐ showers (intermittent)	
<u>90</u> % cloud cover	<u>30</u> % cloud cover or less	
☐ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☐ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: clear, sediment at bottom

Water Color: clear

Estimated Depth: 3 in

Visibility: to bottom

Tide (if applicable): N/A

Notes: algae growth; vegetation rubbish clumps

SPECIES OBSERVATIONS

Fish Kill? Yes ☒ No ☐ # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes:

Species Observed	# of individuals	Behavior	Notes/Observations
black-crowned night heron	1	feeding	In stream water
Hawaiian stilt	1	forage	In stream water
red-vented bulbul	2	call	In vegetation next to stream
common myna	2	call	In vegetation next to stream
spotted dove	2	fly	Over stream
guppy	100+	Swim	Right stream

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



20 July 2026

Photograph # 1:
Downstream Site #
1.

Halawa Stream Monitoring Data Sheet

Observer/s: [REDACTED]

Date: 7/20/2026 Site Name: Downstream Site # 2 Time: 0859-0903

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☐ showers (intermittent)	☐ showers (intermittent)	
<u>50%</u> cloud cover	<u>30%</u> cloud cover or less	
☐ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☐ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: clear, sediment at bottom

Water Color: clear

Estimated Depth: 4 in- 2ft

Visibility: to bottom

Tide (if applicable): NA

Notes: floating vegetation trash

SPECIES OBSERVATIONS

Fish Kill? Yes ☒ No ☐ # Dead Fish 0

Fish Breathing Stress/Gulping ☐ None ☒ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes: N/A

Species Observed	# of individuals	Behavior	Notes/Observations
common myna	1	drink	In stream bed
black-crowned night heron	1	eat	In stream water
rose-ringed parakeet	1	fly	Over stream bed
common waxbill	2	call	In stream bed
red-vented bulbul	1	fly	Into trees next to stream
zebra dove	1	forage	In stream bed
black-crowned night heron	1	loaf	In tree next to stream
tilapia	100+	swim	Lower stream

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



20 July 2026

Photograph # 1:
Downstream Site #
2.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 7/20/2026 Site Name: Estuary Site # 1 Time: 1108-1113

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☐ showers (intermittent)	☐ showers (intermittent)	
<u>100 % cloud cover</u>	<u>30% cloud cover or less</u>	
☐ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☐ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: Slightly clear, lighter sediment mixed in water

Water Color: green

Estimated Depth: 5 ft

Visibility: 1 ft

Tide (if applicable): 1.4 ft

Notes: Trash clutter on north bank.

SPECIES OBSERVATIONS

Fish Kill? Yes ☒ No # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes:

Species Observed	# of individuals	Behavior	Notes/Observations
red-vented bulbul	1	fly	Fly over stream into trees
northern cardinal	1	call	In trees next to stream
common myna	1	fly	Fly over stream into trees
zebra dove	1	fly	Fly over stream into trees

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



Photograph # 1:
Estuary Site # 1.

20 July 2026

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 7/20/2026 Site Name: Estuary Site # 2 Time: 1040-1045

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
☐ storm (heavy rain)	☐ storm (heavy rain)	☐ yes ☒ no
☐ rain (steady rain)	☐ rain (steady rain)	
☐ showers (intermittent)	☐ showers (intermittent)	
<u>90</u> % cloud cover	<u>30</u> % cloud cover or less	
☐ clear/sunny	☒ clear/sunny	

WATER QUALITY

Water level ☐ dry ☐ wet ☐ standing water ☒ flowing water ☐ sheen visible

Observed Turbidity/Sedimentation: Cloudy mixed sediment

Water Color: brown

Estimated Depth: 3 ft

Visibility: 1 ft down

Tide (if applicable): 1.43

Notes: NA

SPECIES OBSERVATIONS

Fish Kill? Yes ☒ No ☐ # Dead Fish 0

Fish Breathing Stress/Gulping ☒ None ☐ Yes

Fish Abnormal Behavior ☒ None ☐ Yes

Notes:

Species Observed	# of individuals	Behavior	Notes/Observations
cattle egret	3	forage	In grass near stream
common myna	8	forage	In grass near stream
house sparrow	1	forage	In grass near stream
saffron finch	1	forage	In grass near stream
zebra dove	1	forage	Forage on shoreline

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



20 July 2026

Photograph # 1:
Estuary Site # 2
looking upstream.



Photograph # 2:
Estuary Site # 2
looking
downstream.

WATERBIRD SURVEY DATASHEET

WETLAND CONDITION CODES				WEATHER CODES			
Water Level (WL) 0 = dry 1 = lower than normal 2 = normal 3 = higher than normal	Human Impact (HI) 0 = indirect (little garbage, few people) 1 = moderate 2 = heavy (many people present; e.g., wading, boating, fishing, etc)	Rainfall (RF) 0 = no rain 1 = mist or fog 2 = drizzle 3 = light rain 4 = heavy rain 5 = snow or hail	Wind 0 = no wind, < 1 mph 1 = smoke drifts, 1-3 mph 2 = wind felt on face, 4-7 mph 3 = leaves and twigs rustle, 8-12 mph 4 = dust raises, branches stir, 13-18 mph 5 = small trees sway, >19 mph				
Vegetation Cover (VC) 0 = open water (<25% veg) 1 = 26-50% veg cover 2 = 51-75% veg cover 3 = >75% cover	Shoreline Condition of Tidal Wetlands (SC) 0 = water at high tide mark 1 = water 25 ft from high tide mark 2 = water 50 ft from high tide mark 3 = water >50 ft from high tide mark N/A=not applicable	Cloud Cover (CC) = Estimate to the nearest 10%					

REMINDERS: If site is not accessible, include wetland name and write 'no access'

Observers [REDACTED]

Date 7/20/2026

If no birds observed, fill out top portion and write 'no birds'

KEEP A COPY FOR YOUR RECORDS

Island O'ahu

Subadult includes juveniles and chicks

Wetland Name	US				DC				DS 1				DS 2			
	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC
Condition	1	1	1	NA	1	1	2	NA	1	1	2	NA	2	0	2	N/A
Weather	CC	RF	Wind		CC	RF	Wind		CC	RF	Wind		CC	RF	Wind	
	100	0	2		70	0	3		90	1	3		50	0	3	
Time	Start		Stop		Start		Stop		Start		Stop		Start		Stop	
	1021		1026		1002		1007		914		919		858		903	
COOT adult																
subadult																
GALLINULE/MOORHEN adult																
subadult																
STILT adult									1 (adult /forage)							
subadult																
KOLOA adult																
subadult																
Koloa/Mallard Hybrid																
Mallard (domestic/feral)																
Other Domestic Duck																
Black-cr. Night Heron									1 (adult /feeding)				2 (adult /(1) loaf, (1) eat)			
Cattle Egret																
Pacific Golden Plover																
Ruddy Turnstone																
Sanderling																
Wandering Tattler																
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
White fairy tern																
Comments	no waterbirds/shorebirds.				no waterbirds/shorebirds.											

WATERBIRD SURVEY DATASHEET

WETLAND CONDITON CODES		WEATHER CODES	
Water Level (WL) 0 = dry 1 = lower than normal 2 = normal 3 = higher than normal	Human Impact (HI) 0 = indirect (little garbage, few people) 1 = moderate 2 = heavy (many people present; e.g., wading, boating, fishing, etc)	Rainfall (RF) 0 = no rain 1 = mist or fog 2 = drizzle 3 = light rain 4 = heavy rain 5 = snow or hail	Wind 0 = no wind, < 1 mph 1 = smoke drifts, 1-3 mph 2 = wind felt on face, 4-7 mph 3 = leaves and twigs rustle, 8-12 mph 4 = dust raises, branches stir, 13-18 mph 5 = small trees sway, >19 mph
Vegetation Cover (VC) 0 = open water (<25% veg) 1 = 26-50% veg cover 2 = 51-75% veg cover 3 = >75% cover	Shoreline Condition of Tidal Wetlands (SC) 0 = water at high tide mark N/A=not applicable 1 = water 25 ft from high tide mark 2 = water 50 ft from high tide mark 3 = water >50 ft from high tide mark		Cloud Cover (CC) = Estimate to the nearest 10%

Date 7-20-2026
 Observers [Redacted]

Island O'ahu

REMINDERS: If site it not accessible, include wetland name and write 'no access'
 If no birds observed, fill out top portion and write 'no birds'

KEEP A COPY FOR YOUR RECORDS
 Subadult includes juveniles and chicks

Wetland Name	ES 1				ES 2											
Condition	WL	VC	HI	SC	WL	VC	HI	SC								
	2	0	2	0	2	0	2	0								
Weather	CC	RF	Wind		CC	RF	Wind									
	100	0	2		90	0	3									
Time	Start		Stop		Start		Stop									
	1108		1113		1040		1045									
COOT adult																
subadult																
GALLINULE/MOORHEN adult																
subadult																
STILT adult																
subadult																
KOLOA adult																
subadult																
Koloa/Mallard Hybrid																
Mallard (domestic/feral)																
Other Domestic Duck																
Black-cr. Night Heron																
Cattle Egret					3 (adult/ forage)											
Pacific Golden Plover																
Ruddy Turnstone																
Sanderling																
Wandering Tattler																
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
White Tern																
Comments	No shorebird/ waterbird															

Rev. Aug 201