

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 08-19-25

Site Name: Upstream Site

Time: 0842

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>0</u> % cloud cover	<u>50</u> % cloud cover or less	
<input checked="" type="checkbox"/> clear/sunny	<input checked="" type="checkbox"/> clear/sunny	

WATER QUALITY

Water level dry wet standing water flowing water sheen visible

Observed Turbidity/Sedimentation: clear, sediment at bottom of stream

Water Color: clear

Estimated Depth: < 1"

Visibility: 100% to the bottom

Tide (if applicable): N/A

Notes: Lots of trash along the streambed.

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
red-crested cardinal	2	Loafing	Drinking water from the stream.
zebra dove	1	Loafing	Calling from the trees above the stream.
spotted dove	1	Loafing	In the trees above the stream.
warbling white-eye	2	Foraging	In trees above the stream.
red-billed leiothrix	1	Loafing	In trees above the stream.
common waxbill	5	Loafing	In the fallen tree in the stream.
feral cat	1	Loafing	In the stream area.

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



Photograph #
1:
Upstream Site
looking
upstream.



Photograph #
2:
Upstream Site
looking
downstream.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 08-19-25

Site Name: Discharge Site

Time: 0912

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>10</u> % cloud cover	<u>50</u> % cloud cover or less	
<input checked="" type="checkbox"/> clear/sunny	<input checked="" type="checkbox"/> clear/sunny	

WATER QUALITY

Water level dry wet standing water flowing water sheen visible

Observed Turbidity/Sedimentation: clear, sediment at bottom of stream

Water Color: clear

Estimated Depth: 1-4"

Visibility: 100% to the bottom

Tide (if applicable): N/A

Notes: Pipes actively discharging to downstream. Upstream dry with small puddles. Persistent noise from machinery.

SPECIES OBSERVATIONS

Fish Kill? Yes No # Dead Fish 0

Fish Breathing Stress/Gulping None Yes

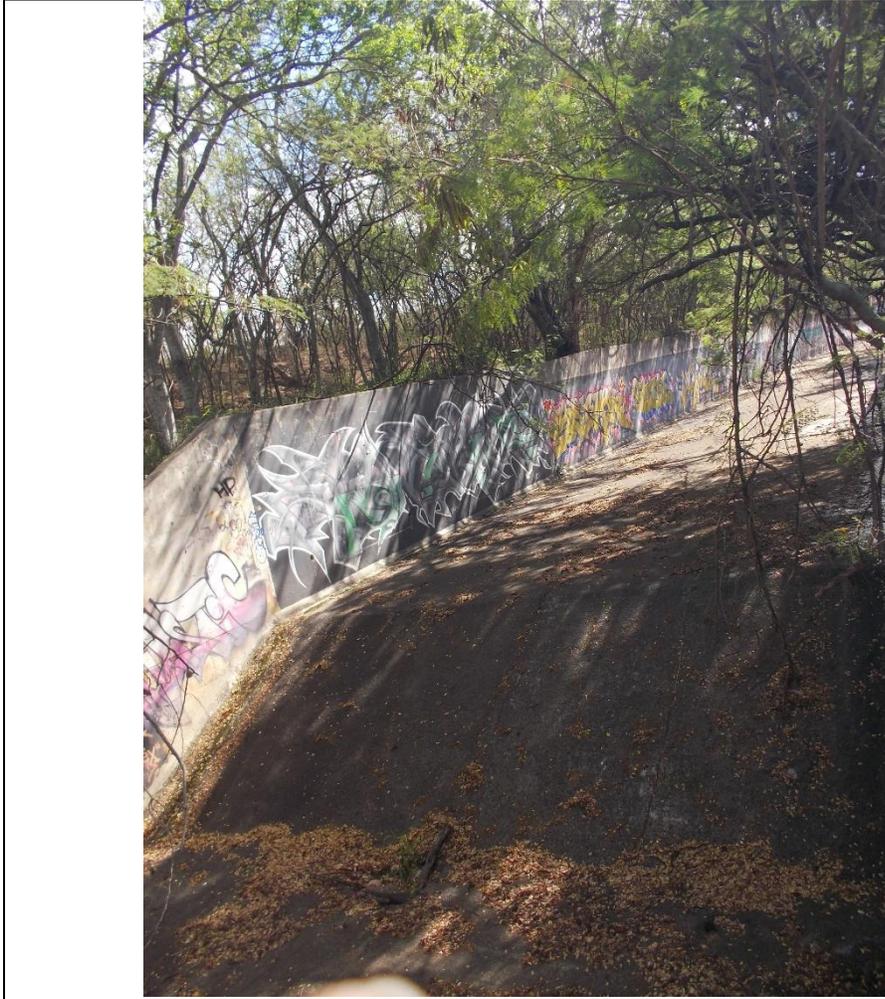
Fish Abnormal Behavior None Yes

Notes:

Species Observed	# of individuals	Behavior	Notes/Observations
common myna	6	Loafing	Drinking from/bathing in the stream (downstream of pipes).
common myna	1	Loafing	Sleeping in the trees above the stream.
red-vented bulbul	4	Flying	Flew into the trees above the stream.
white-rumped shama thrush	1	Loafing	In trees above the stream.

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



Photograph #
1:
Discharge Site
looking
upstream.

Halawa Stream Monitoring Data Sheet



Photograph #
2:

Discharge Site
looking
downstream.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 08-19-25

Site Name: Downstream Site # 1

Time: 0804

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>20</u> % cloud cover	<u>50</u> % cloud cover or less	
<input checked="" type="checkbox"/> clear/sunny	<input checked="" type="checkbox"/> clear/sunny	

WATER QUALITY

Water level dry wet standing water flowing water sheen visible

Observed Turbidity/Sedimentation: clear, sediment at the bottom

Water Color: clear

Estimated Depth: 2-4"

Visibility: 100% to bottom

Tide (if applicable): N/A

Notes: Human debris/trash; vehicle traffic/noise

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
cattle egret	1	Foraging	Foraging in the streambed.
Pacific golden plover	1	Loafing	Walking in the streambed.
zebra dove	1	Loafing	Sitting in the tree.

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



Photograph #
1:
Downstream
Site # 1.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 08-19-25 Site Name: Downstream Site # 2 Time: 0819

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>0</u> % cloud cover	<u>50</u> % cloud cover or less	
<input checked="" type="checkbox"/> clear/sunny	<input checked="" type="checkbox"/> clear/sunny	

WATER QUALITY

Water level dry wet standing water flowing water sheen visible

Observed Turbidity/Sedimentation: clear, sediment on the bottom

Water Color: clear

Estimated Depth: ~1'

Visibility: 100% to the bottom

Tide (if applicable): ~0.25 ft

Notes: Man appears to be living on left streambank next to McDonald's, seen hanging out on bridge.

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
wandering tattler	1	Foraging	Foraging in the streambed.
spotted dove	3	Loafing	Drinking water from and walking in the stream.
Pacific golden plover	1	Loafing	Flew at the wandering tattler and took over rocky mound where tattler was foraging.
zebra dove	7	Loafing	Drinking water from the stream.
black-crowned night heron	2	Loafing	Sitting in the trees along the stream.

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



Photograph #
1:
Downstream
Site # 2.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 08-19-25 Site Name: Estuary Site #1 Time: 0721

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>10</u> % cloud cover	<u>50</u> % cloud cover or less	
<input checked="" type="checkbox"/> clear/sunny	<input checked="" type="checkbox"/> clear/sunny	

WATER QUALITY

Water level dry wet standing water flowing water sheen visible
 Observed Turbidity/Sedimentation: slightly cloudy, lighter sediment mixed in water
 Water Color: green/gray
 Estimated Depth: 4'
 Visibility: 12"
 Tide (if applicable): ~0.1 ft

Notes: Lots of traffic in the area (noise); homeless encampment under the bridge.

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	3	Flying	Flew over the stream.
spotted dove	1	Flying	Flew over the stream.
red-crested cardinal	1	Loafing	Calling from the trees along the stream.
rose-ringed parakeet	3	Flying	Flew over the stream.
spotted dove	2	Loafing	Sitting on power lines.

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS



Photograph #
1:
Estuary Site 1
looking
upstream.

Halawa Stream Monitoring Data Sheet

Observer/s: _____

Date: 08-19-25

Site Name: Estuary Site # 2

Time: 0742

WEATHER CONDITIONS

NOW	Past 24 Hours	Has there been a heavy rain in the past 7 days?
<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> storm (heavy rain)	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no
<input type="checkbox"/> rain (steady rain)	<input type="checkbox"/> rain (steady rain)	
<input type="checkbox"/> showers (intermittent)	<input type="checkbox"/> showers (intermittent)	
<u>10%</u> cloud cover	<u>50%</u> cloud cover or less	
<input checked="" type="checkbox"/> clear/sunny	<input checked="" type="checkbox"/> clear/sunny	

WATER QUALITY

Water level dry wet standing water flowing water sheen visible

Observed Turbidity/Sedimentation: cloudy, lighter sediment mixed in water

Water Color: clear

Estimated Depth: 2-3'

Visibility: 90%

Tide (if applicable): ~0.25 ft

Notes: N/A

SPECIES OBSERVATIONS

Fish Kill? Yes No # Dead Fish 0

Fish Breathing Stress/Gulping None Yes

Fish Abnormal Behavior None Yes

Notes: Feral cats in parking lot and feral rooster; family of mongoose in brush.

Species Observed	# of individuals	Behavior	Notes/Observations
red-vented bulbul	3	Loafing	Sitting in the naupaka bushes next to the stream.
red-vented bulbul	3	Flying	Flew over the stream.
rose-ringed parakeets	3	Flying	Flew over the stream.
common myna	1	Flying	Flew over the stream.
cattle egret	1	Flying	Flew over the stream.

Halawa Stream Monitoring Data Sheet

PHOTOGRAPHS

<p>No photo available</p>	<p>Photograph # 1: Estuary Site # 2 looking upstream.</p>
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	<p>Photograph # 2: Estuary Site # 2 looking downstream.</p>
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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 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 08-19-25

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

Observers ██████████

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

Island O'ahu

KEEP A COPY FOR YOUR RECORDS

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	0	2	N/A	3	0	2	N/A	1	0	2	N/A	1	2	2	N/A
Weather	CC	RF	Wind		CC	RF	Wind		CC	RF	Wind		CC	RF	Wind	
	0	0	5		10	0	3		10	0	5		0	0	2	
Time	Start		Stop		Start		Stop		Start		Stop		Start		Stop	
	0842		0847		0912		0917		0804		0809		0819		0824	
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													2 (adult/loafing)			
Cattle Egret									1 (adult/foraging)							
Pacific Golden Plover									1 (adult/foraging)				1 (adult/loafing)			
Ruddy Turnstone																
Sanderling																
Wandering Tattler													1 (adult/foraging)			
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
White tern																
Comments	no waterbirds/shorebirds				no waterbirds/shorebirds											

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 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 08-19-25

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

Observers ██████████

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	ES 1				ES 2											
	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC	WL	VC	HI	SC
Condition	2	1	2	1	1	0	2	1								
Weather	CC	RF	Wind		CC	RF	Wind		CC	RF	Wind		CC	RF	Wind	
	10	0	4		10	0	4									
Time	Start		Stop		Start		Stop		Start		Stop		Start		Stop	
	0721		0726		0742		0747									
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																
Pacific Golden Plover																
Ruddy Turnstone																
Sanderling																
Wandering Tattler																
Northern Pintail																
Mallard (migratory)																
Lesser scaup																
White Tern																
Comments	No water/shorebirds				No water/shorebirds											