

Hawaii-Ola - Sample Collection Datasheet

Team	Kamaole	Samplers (Last Name, 1st Initial)	• Mitch Brown Donna Howard						Meters and Probes ID		
Session	35								HQ40d:2	2100Q:2	
Date	7/23/19								pH:2	DO:2	Salinity:2

Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)	People (within 100 ft)		
					(mg/L)	(%) 85-105 normal			water	beach	camp
Kalepolepo North NKN190723	N	8:00	27.5	33.7	6.50	83.9	8.87	1.76	2.03	1.78	0
Waipuilani Park KWP190723	N	8:20	26.9	32.9	6.16	93.0	8.05	10.30	10.80	11.50	0
Kihei South KKS190723	N	8:42	27.9	33.5	5.74	88.4	8.09	5.96	7.60	6.53	6
Kalama Park KKP190723	N	9:03	28.3	34.6	6.65	103.5	8.17	9.12	9.73	10.2	3
Cove Park KCP190723	N	9:25	28.5	32.8	6.53	101.0	8.12	2.69	3.44	2.23	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

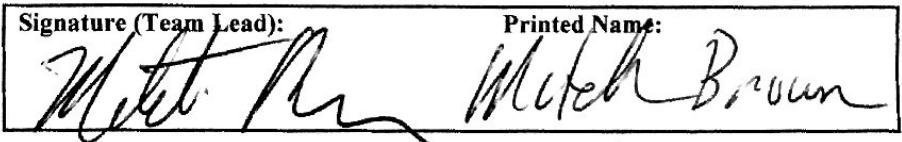
TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.30	56.6	576
Pre-sampling	0.04	6.30	56.9	577
Post-sampling	0.04	6.28	57.1	576

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-		
Nutrients	6	NWS	M.Brown
Bacteria	-		

Signature (Team Lead):



Printed Name:

Sites with streams/outflows: Kalepolepo North, Kalama Park, Cove Park

Hanaeleh Wall Creek - Sample Collection Datasheet

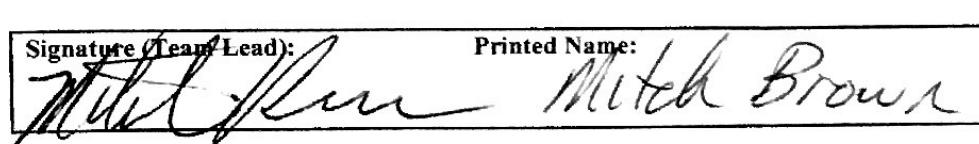
Team	Kamaole	Samplers (Last Name, 1st Initial)	<i>M. Brown</i>			
Session	35		<i>D. Howard</i>			
Date	7/23/19					

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN190723	Kalepolepo North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP190723	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS190723	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP190723	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP190723	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments						
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	

Signature (Team Lead):

Printed Name:


 Mitch Brown

Team	Makena	Samplers (Last Name, 1st Initial)	<i>S. Fries, B. Sousa, M. Sharpe</i>		Meters and Probes ID				
Session	35				HQ40d: <i>2</i>		2100Q: <i>2</i>		
Date	7/24/19				pH: <i>2</i>	DO: <i>2</i>	Salinity: <i>2</i>		

Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)	People (within 100 ft)		
					(mg/L)	(%) 85-105 normal			water	beach	camp
Makena Landing MML190724	—	8:00am	28.0	35.0	6.47	100.3	8.12	1.94	3.69	1.10	0
S Maluaka Beach MMB190724	—	8:17am	28.2	35.0	6.48	101.0	8.16	1.06	1.11	8.14	9
Oneuli MON190724	—	8:35	28.2	35.1	5.99	93.4	8.10	1.99	1.82	1.66	0
Ahihi Kinau North MAN190724	—	8:56	27.7	35.2	7.05	108.7	8.17	0.79	0.73	0.85	6
Ahihi Kinau South MAS190724	—	9:15	28.0	35.6	6.68	104.0	8.20	0.33	0.28	0.21	14
											16

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.30	56.6	576
Pre-sampling	0.04	6.34	56.9	578
Post-sampling	0.04	6.28	57.2	576

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	M Brown
Bacteria	-	-	-

Signature (Team Lead):

Mitch Brown

Printed Name:

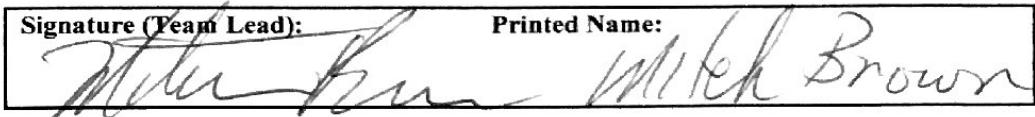
Sites with streams/outflows: **Makena Landing**

Team	Makena	Samplers (Last Name, 1st Initial)				
Session	35					
Date	7/24/19					

S. Francis
B. Soysa
M. Sharpe

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
MML190724	Makena Landing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB190724	South Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:17	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON190724	Oneuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN190724	Ahihi-Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS190724	Ahihi-Kinau South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments						
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml	

Signature (Team Lead):  Printed Name: Mike Brown

Team	North Kihei	Samplers (Last Name, 1st Initial)	CYR, R	Thunholm, K.		Meters and Probes ID		
Session	35		Cyr, M				HQ40d: 2	2100Q: 2
Date	7/25/19		Riley, R.				pH: 2	DO: 2

Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)	People (within 100 ft)		
					(mg/L)	(%) 85-105 normal			water	beach	camp
Haycraft Park NHP190725	N	8:30	27.5	34.9	6.66	102.4	8.14	5.65	7.19	6.42	0
Kealia Pond NKP190725	N	8:50	27.4	35.3	6.63	102.1	8.19	6.7	7.76	8.6	0
Sugar Beach NSB190725	N	9:20	28.0	35.1	6.54	103.2	8.18	2.42	2.08	2.18	4
Kihei Canoe Club NKC190725	N	9:40	28.5	35.0	6.65	104.3	8.17	4.03	5.86	6.79	2
Mai Poia Oe Iau NMP190725	N	10:06	28.5	33.1	6.68	102.8	8.12	7.41	7.90	7.81	2

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). *re*
Use the back of the form if needed.

Haycraft - 1 dog
Kealia - 2 dogs
Sugar Beach - 2nd reading 35.2
Kihei Canoe Club - 1 dog
NTU - 7.33
- Heavy wind, 1 sample bottle open
Multiple readings
Mai Poia
SALINTY X2, PROBES ON BOTTOM
& DO

TURBIDITY VERIFICATION				
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.30	56.6	576
Pre-sampling	,03	6.33	56.8	577
Post-sampling	0.04	6.27	57.0	576

CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	T. Stark
Bacteria	-	-	-

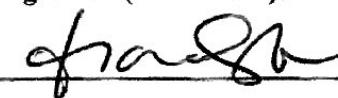
Signature (Team Lead): *Gina Clark* Printed Name: *Tiara Stark*

Hui O Ka Wai Ola - Sample Collection Data Sheet

Team	North Kihei	Samplers (Last Name, 1st Initial)	Cyr, R.	Riley, R.
Session	35		Cyr, M.	Thunholm, K.
Date	7/25/19			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NHP190725	Haycraft Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP190725	Kealia Pond	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB190725	Sugar Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC190725	Kihei Canoe Club	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP190725	Mai Poina Oe Iau	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:06	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):



Printed Name:

Tiarai Stark

Team	Wailea	Samplers (Last Name, 1st Initial)	June B, Judy J, Seraph D'Alton Alessio, A						Meters and Probes ID			
Session	35								HQ40d: 2	2100Q: 2		
Date	7/26/19								pH: 2	DO: 2	Salinity: 2	

Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)	People (within 100 ft)		
					(mg/L)	(%) 85-105 normal			water	beach	camp
Kilohana Dr WKD190726	N	8:00	27.7	35.0	6.49	100.2	8.13	1.35	.82	.76	0
Keawakapu Beach WKB190726	N	8:21	27.9	35.2	6.61	102.6	8.15	1.54	.71	.71	20
Ulua Beach WUL190726	N	8:44	27.8	35.0	6.46	103.1	8.15	1.06	1.38	1.68	30 13 15
Palaea WPL190726	N	9:09	28.3	34.9	6.56	102.3	8.17	1.79	1.42	1.48	0
Poolenalena WPO190726	N	9:25	28.6	35.3	6.64	104.2	8.19	1.19	1.27	1.72	11
									10	0	

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

Judy J. not avail after 8/9 for
TBD

Boogie boarders front of Samplers

• Checked salinity @ Keawakapu &
Poolenalena 1st reading was above
normal range

Nutrient bottle holder needs glue

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.30	56.6	576
Pre-sampling	0.04	6.32	56.7	577
Post-sampling	0.05	6.34	56.9	576

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-		
Nutrients	5	NMS	T. Stark
Bacteria	-	-	-

Signature (Team Lead):

Tiara Stark

Printed Name:

Team	Wailea	Samplers (Last Name, 1st Initial)	Cone, B.	Judy, J.
Session	35		Allison, A.	Scrappin' D'Alerta
Date	7/26/19			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
WKD190726	Kilohana Dr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB190726	Keawakapu Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:21	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL190726	Ulua Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL190726	Palauaea	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:09	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO190726	Poolenalena	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):



Printed Name:

Tiara Stark

FIELD EQUIPMENT VERIFICATION (PRE/POST A WEEKLY SAMPLING):

Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
35	M. Brown T. Stark	7/22/19	8:10	M. Brown T. Stark	7/26/19	10:00

QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value	POST: Verification Value	Acceptable Range	Comments/ Notes	QA?	
Temperature	NIST	n/a	n/a	Std Val	NIST 26.0°C	NIST 26.7°C	NIST °C 32.1°C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2 1	n/a			25.9	—				
	2 2	n/a			26.9	32.1				
Salinity			3 months	Std Val	Tap water 0.13	Salin Std 6/19 date 34.3 ppt	Tap water 0.13	Salin Std 6/21/19 date 34.3 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	2 1	6/10/19			0.14	33.3	—	—		
	2 2	6/10/19			0.13	33.4	0.19	33.3	0.9 pre +1 post	
Dissolved Oxygen			1 year	Std Val	100%	100%	100%	± 5 %		
	2 1	10/1/18			101.1	—	—			
	2 2	10/1/18			101.2	100.4	100.4			
pH			3 weeks	Std Val	pH 7.00	pH 10.00	pH 7.00	pH 10.00	± 0.1 pH of pH std value	Compare to Manufacturer pH Std value on bottle
	2 1	7/22/19			7.02	10.02	—	—		
	2 2	7/22/19			7.01	10.01	10.03	7.04		
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 NTU	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value
	1	n/a	5/20/19		0.05	6.61	—	—		
	2	n/a	5/20/19		0.04	6.32	0.05	6.28		

QA:
 * Are pre- and post within one week?
 * Delay times are ok?
 * Other equipment issues?

afS