

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

Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
87	M. Beeson, G. Silver	4/26/21	1:15	M. Beeson, G. Silver	4/29/21	10:30

QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value		POST: Verification Value		Acceptable Range	Comments/ Notes	QA?
Temperature	NIST SM	n/a	NIST Exp. Date	Std Val	NIST	NIST	NIST	NIST	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	2	7/8/21		25.9 °C	25.8 °C	27.1 °C	2 °C			
	2	3	7/8/21		25.7		26.9				
Salinity			3 months	Std Val	Tap water	Salin Std 9/25 date 35.0 ppt	Tap water	Salin Std 4/24 date 35 ppt	± 1 ppt		
	2	2	3/15/21		0.35	35.0	0.35	34.7			
	2	3	3/15/21		0.35	34.8	—	—			
Dissolved Oxygen			1 year	Std Val	100%		100%		± 5 %		
	2	2	9/28/20 MB 4/26/21		99.6		99.1				
	2	1	9/28/20		98.0		—				
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	6	4/26/21		6.99	9.95	6.97	9.92			
	2	5	4/26/21		6.99	9.96	—	—			
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	
	NBBF	n/a	3/15/21		0.09	5.74	0.09	5.71		low: 5.77 NTU 5.75 NTU	
	1	n/a	3/15/21		0.08	5.70	—	—		low: 5.77 NTU	

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

Lab: KAL

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RS	Samplers (Last Name, 1st Initial)	Freiberg, T. Beeson, M. Kranberg, J	Meters and Probes ID		
Session	87			HQ40d: 2	2100Q: NBBF	
Date	04/27/2021			pH: 6	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
Napili Bay RNS210427	N	8:15	25.0	33.7	6.91	101.0	8.08	0.90	0.99 MB	0.95	3	18	0
Pohaku RPO210427	N	8:40	25.0	32.1	6.79	98.3	8.10	0.83 MB	0.76	1.04	SCUBA 2	6	0
Kaanapali Shores RKS210427	NO	9:03	25.2	34.4	6.82	100.5	8.08	1.46	1.34	1.32	7	12	0
Kahekili Beach Two RKT210427	NA	9:21	25.7	34.4	6.69	99.3	8.11	2.07	2.02 MB	2.73	ESUP	6	0
Canoe Beach RCB210427	NO	9:52	25.6	32.5	6.89	101.1	8.12	2.30	2.07	2.14	0	3	0
Wahikuli RWA210427	NA	10:12	25.7	33.3	6.76	99.8	8.12	1.32	1.32	1.14	0	0	0

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

RNS - FLAT WATER, SUNNY
RPO - low tide, calm, sunny, clear
RKS - very clear, low tide
RCB - same as above, light wind.
RWA - "

*couldn't get blank < 0.15 NTU

TURBIDITY VERIFICATION

	Blank (must be < 0.10)	Low	Med	High
Standard	0.08 MB 0.09	5.75	59.4	605
Pre-sampling	0.15	5.70	58.8	605
Post-sampling	0.07	5.72	59.0	604

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	6	KAL	M. Beeson
Bacteria	-	-	-

Signature (Team Lead):

MBeeson

Printed Name:

Meredith Beeson

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RS	Samplers (Last Name, 1st Initial)	Freiburg, T. Beeson, M. Kranberg, J.
Session	87		
Date	04/27/2021		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS210427-N-1	Napili Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO210427-N-1	Pohaku	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS210427-N-1	Kaanapali Sh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT210427-N-1	Kahekili Beach Two	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:21	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB210427-N-1	Canoe Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA210427-N-1	Wahikuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:12	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		

Signature (Team Lead):

MBeeson

Printed Name:

Meredith Beeson

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Polanui	Samplers (Last Name, 1st Initial)	Gund, K; Mayer, Y ; Harris, K (Silver, G)	Meters and Probes ID		
Session	87			HQ40d: 2	2100Q: NBBF	
Date	04/28/2021			pH: 6	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
505 Front St PFF210428	Y	8:15	24.8	34.5	6.21	90.8	8.05	2.31	2.24	2.26	0	7	0
Lindsey Hale PLH210428	N	8:38	25.2	34.6	5.64	83.0	8.03	3.56	3.08	3.41 K ² H 2.95	0	1	0
Lahaina Town PLT210428	N	8:56	25.5	34.6	5.84	86.6	8.02	7.77	7.55	7.46	1	1	0
Camp Oluwahu OCO210428	N	9:23	26.4	34.5	6.52	98.1	8.04	3.75	3.78	4.05	0	0	0
Papalaua Pali OPP210428	N	9:41	26.1	35.2	6.76	101.4	8.12	3.51 3.63	2.93	3.39	0	0	0

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

Use the back of the form if needed.

PLT - water very calm & clear... VERY low tide & rocks exposed.

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.07	5.75	59.4	605
Pre-sampling	0.10	5.72	58.9	606
Post-sampling	0.07	5.72	59.1	606

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	KAL	G. Silver
Bacteria	-	-	-

Signature (Team Lead):

Annie Smith

Printed Name:

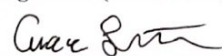
Grace Silver

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Polanui	Samplers (Last Name, 1st Initial)	Gund, K; Mayen, Y; Harris, K (Silver, G)
Session	87		
Date	04/28/2021		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF210428-N-1	505 Front St	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH210428-N-1	Lindsey Hale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT210428-N-1	Lahaina Town	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO210428-N-1	Camp Oluwalu	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP210428-N-1	Papalaua Pali	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:41	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		

Signature (Team Lead): 	Printed Name: Grace Silver
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Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RN	Samplers (Last Name, 1st Initial)	Cramer, S Berg Hutchings, L	Silver, G	Meters and Probes ID		
Session	87				HQ40d: 2	2100Q: NBBF	
Date	04/29/2021				pH: 6	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
Honolua Bay RHL210429	N	7:58	24.3	33.4	6.50	93.5	8.04	18.1	17.2	18.7	53	35	0
Oneloa Bay RON210429	N	8:35	24.8	35.0	6.91	101.2	8.13	2.21	2.10	2.05	1	2	0
Kapalua Bay RFS210429	N	9:05	25.0	33.6	6.71	97.9	8.05	2.94	2.75	3.01 GS 3.17	14	20	0
Ka'opala Bay RKO210429	N	9:28	25.3	34.2	6.52	95.8	8.04	8.45 GS 4.55	8.73	8.81	0	41	0
Kahana Village RKV210429	N	9:45	25.7	34.2	6.67	98.8	8.03	5.33	5.53 GS 4.61	5.08	1	0	0

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

Honolua Bay: water Murky, 4m turb = 15.4

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.07	5.75	59.4	605
Pre-sampling	0.07.08	5.68	58.8	608
Post-sampling	0.09	5.71	59.3	605

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	KAL	G. Silver
Bacteria	-	-	-

Signature (Team Lead):

Grace Silver

Printed Name:


Grace Silver

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RS	Samplers (Last Name, 1st Initial)	Hutchings, L Cramer, S Silver, G
Session	87		
Date	04/29/2021		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL210429-N-1	Honolua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON210429-N-1	Oneloa Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS210429-N-1	Kapalua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO210429-N-1	Ka'opala Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:28	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV210429-N-1	Kahana Village	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:45	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		

Signature (Team Lead):	Printed Name:
	Grace Silver