



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

Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
102	M. Beeson	3/21/22	10:00	N. Sampsu	3/24/22	10:20

QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value	POST: Verification Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 23.9 °C	NIST 23.9 °C	NIST 25.1 °C	NIST — °C	± 0.6 °C of NIST Compare to NIST Std value in tap water
	4	3	8/17/23		23.8		24.8		
	4	4	8/17/23		23.8		—		
Salinity			3 months	Std Val	Tap water 6/27/21 date 33.5 ppt	Tap water 6/27/21 date 33.5 ppt	Salin Std 6/27/21 date 33.5 ppt	Salin Std 6/27/21 date 33.5 ppt	± 1 ppt Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	1	3	2/28/22		0.40	33.8	0.40	33.9	
	1	4	2/28/22		0.41	33.8	—	—	
Dissolved Oxygen			1 year	Std Val	100%	100%		± 5 %	
	1	1	2/7/22		99.5	99.8			
	1	4	8/12/21		99.7	—			
pH			3 weeks	Std Val	pH 7.00 exp 3/23	pH 10.00 exp. 3/22	pH 7.00	pH 10.00	± 0.1 pH of pH std value Compare to Manufacturer pH Std value on bottle
	1	7	3/21/22		7.02	10.02	7.02	10.01	* pH 10 buffer technically expires this month
	1	6	3/21/22		7.01	10.01	—	—	
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	2/28/22		0.07	5.44	0.07	5.37	* low: 5.49 NTU
	NBBF	n/a	2/7/22		0.08	5.75	—	—	* low: 5.78 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)	Floyd M Kranberg, S Bieser S FREIBERG, T						Meters and Probes ID		
Session	102		HQ40d: 1			2100Q: 1					
Date	03/22/2022		pH: 7			DO: 1			Salinity: 3		

Location Name Sample ID	Freshwater 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 RNS220322	NA	8:13	24.8	35.5	6.87	101.3	8.14	1.09	1.02	1.05	0	4	NA
Pohaku RPO220322	NO	8:36	25.0	33.1	6.71	97.7	8.14	6.66	6.54	5.54	2	10	NA
Kaanapali Sh RKS220322	NA	8:56	24.7	35.4	6.76	99.3	8.14	1.99	1.63	1.84	0	5	NA
Kahekili Beach Two RKT220322	NA	9:17	25.1	35.3	6.67	98.6	8.16	1.48	1.41	1.43	0	1	NA
Canoe Beach RCB220322	NO	9:38	25.5	35.1	6.65	98.8	8.17	2.93	2.88	2.89	4	4	NO
Wahikuli RWA220322	NO	9:52	25.3	34.5	6.74	99.6	8.19	0.69	0.70	0.72	2	0	NO

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

Use the back of the form if needed.

RNS - CHOPPY WAVES.

USED THE EXTRA FILTER AT RKS

RPO - choppy waves

RKT - moved sample spot 100' TO THE LEFT due to ROCKS.

RCB - JET SKI LAUNCHED BEFORE SAMPLE.

NEED ANOTHER PEN.

Sites with potential for freshwater flow: Kaanapali Shores, Canoe Beach

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.07	5.49	55.7	586
Pre-sampling	0.09	5.31	54.9	583
Post-sampling	0.06	5.44	55.2	582

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	0	KAL	M. Beeson
Bacteria	-	-	-

Signature (Team Lead):

MB

Printed Name:

Meredith Beeson

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RS	Samplers (Last Name, 1st Initial)	Floyd, M	Kranberg, J
Session	102		Bieser, S	
Date	03/22/22		Freiburg, T	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS220322-N-1	Napili Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO220322-N-1	Pohaku	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS220322-N-1	Kaanapali Sh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT220322-N-1	Kahekili Beach Two	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:17	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB220322-N-1	Canoe Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA220322-N-1	Wahikuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:52	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):

MB

Printed Name:

Meredith Beeson

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Polanui	Samplers (Last Name, 1st Initial)	HARRIS, K GUNDO, K CORCORAN, K						Meters and Probes ID			
Session	102								HQ40d:		2100Q:	
Date	03/23/2022		pH:	7	DO:	1	Salinity:	3				

Location Name Sample ID	Freshwater 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 PFF220323	Y	8:15	25.0	33.8	6.19	90.5	8.0	9.59	9.62	9.28	0	0	0
Lindsey Hale PLH220323	N	8:47	25.4	35.4	5.83	86.7	8.05	7.35	6.28	4.85	0	3	0
Lahaina Town PLT220323	N	9:16	26.1	35.3	6.83	95.5	8.09	10.4	10.9	11.3	0	0	0
Camp Olowalu OCO220323	N	9:47	25.4	35.6	6.50	96.9	8.09	4.24	5.16	4.89	0	5	0
Papalaua Pali OPP220323	N	10:11	25.0	35.6	6.98	103.3	8.16	14.1	12.4	12.5	0	0	0

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

Use the back of the form if needed.

PFF Big rain event in Lahaina on 3/21
 Also, it dropped off as a result
 of a shore break (probably)

PLT very silty right at water edge, kayak group
 further out at channel marker, snorkeling

OPP Windy, shallow ~~safety~~, sample for
 Safety

Sites with potential for freshwater flow: 505 Front St.

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.00	5.49	55.7	586
Pre-sampling	0.07	5.57	57.0	596
Post-sampling	0.07	5.33	55.1	584

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	KAL	N. Sampson
Bacteria	-	-	-

Signature (Team Lead):

Printed Name:

Nalei Sampson

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Polanui	Samplers (Last Name, 1st Initial)	Hanis, K
Session	102		Gund, K
Date	03/23/2022		CURRAN, K

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF220323-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	
PLH220323-N-1	Lindsey Hale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT220323-N-1	Lahaina Town	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO220323-N-1	Camp Olowalu	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP220323-N-1	Papalaua Pali	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:11	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:

Nalei Sampson

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RN	Samplers (Last Name, 1st Initial)	Berg, L Sampson, N Uchman, C						Meters and Probes ID		
Session	102								HQ40d: 1	2100Q: 1	
Date	03/24/22								pH: 7	DO: 1	Salinity: 3

Location Name Sample ID	Freshwater 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 RHL220324	Y	8:50	23.4	33.2	6.87	97.3	8.11	74.9 NTU	0	0	0
Oneloa Bay RON220324	N	8:26	24.2	35.8	6.93	101.3	8.16	28.0 NTU	66.8	79.6	2
Kapalua Bay RFS220324	N	8:50	24.4	34.3	6.93	100.6	8.12	3.11	3.72	3.73	5
Ka'opala Bay RKO220324	N	9:11	23.8	34.7	6.88	99.0	8.08	12.4	11.3	12.1	0
Kahana Village RKV220324	N	9:31	24.4	34.8	7.08	103.1	8.17	9.53	9.60	8.49	1

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

RHL - River running - heavy. brackish water, debris
4th turbid. 74.9

RON - high surf, but relatively clear

RFS - clearer, pretty calm, lots of people on beach

RKO - murky, mostly calm, small swell

RKV - murky, lots of algae debris floating

Sites with potential for freshwater flow: Honolua Bay, Kahana Village

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.07	5.49	55.7	586
Pre-sampling	0.08	5.64	54.8	584
Post-sampling	0.09	5.59	55.2	582

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	KAL	N. Sampson
Bacteria	-	-	-

Signature (Team Lead):

Printed Name:

Nakia Sampson

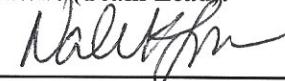
Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RN	Samplers (Last Name, 1st Initial)	Berg, L
Session	102		Sampson, N
Date	03/24/22		Hehemann, C

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL220324-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	
RON220324-N-1	Oneloa Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:26	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS220324-N-1	Kapalua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO220324-N-1	Ka'opala Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:14	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV220324-N-1	Kahana Village	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:31	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:

Nalei Sampson