

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

Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:	
101	N. Sampson, M. Beeson	2/28/22	8:58am	M. Buson	3 3 22	10:40	

QA/QC Check	Inst#	Probe #	Last Cal Date		PF Verificat	tE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	<u>NIST</u> 24.9 <sub>°C</sub>	<u>NIST</u> 25.0 <sub>°C</sub>	NIST 23.5°C	NIST - °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	4	4	8/17/23		24.9		23.5				
	4	3	8/17/23			24.8		1	1422		
Salinity			3 months	Std Val	Tap water	Salin Std 11/2(odate 35.0 ppt	Tap water	Salin Std 11/26 date 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	2	4	2   28   22		0.40	34.9	0.41	35.1			
	2	3	2128122		0.40	34.9	_	-			
Dissolved Oxygen			1 year	Std Val	10	100%		0%	± 5 %		
	2	4	8/12/21		100	.5	98.9				
	2	1	2/7/22		100	.9	_	_			
рН			3 weeks	Std Val	pH 7.00	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	
	2	6	2/28/22		7.01	10.00	7.07	10.07		pH 4 buffer we were using up until this we expired 9/2021	New exp.
	2	7	2/28/22		7.01	9.99	_	-		Shift Trus sor expired specific	
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	2/7/22		0.06	5.73	0.07	5.70		VIN 8F.2 · WW &	
	1	n/a	2/18/122		0.07	5.51	_	_		Rocalibrating due to undervar- last session	ege_

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

Lab: KAL

Team R2RS	E	RCBC26.T.	Meters and Probes ID				
Session 101	(Last Name,	1 . 4	HQ40d: 2	2100Q: NBBF			
Date 03/01/2022		Cranberd, U MCLarbella, 3	рН:  DO:	4 Salinity: 4			

				o v. v.		Oxygen					Peop	le (within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)	300	water	beach	camp
Napili Bay RNS220301	N	8:05	24.3	35.7	6.86	106.3	8-18	1.37	1.36	1.35	0	4	No
Pohaku RPO220301	N	8:30	24.6	34.6	(0.82	99.7	8.16	4-31	3.84	3.07	0	2	.5
Kaanapali Sh RKS220301	NA	8:55	24.5	35.6	6.77	99.4	8.16	1.50	1.75	1.73	0	3	No
Kahekili Beach Two RKT220301	NA	9:15	24.7	35.3	6.66	98.1	8.18	3.68	3.23	3.15	0	5	No
Canoe Beach RCB220301	No	9:40	25.2	35.3	6.64	98.5	8.19	3.84	3.86	4.24	5	8	UA
Wahikuli RWA220301	40	9:55	24.8	33.8	6.83	99,9	8.20	1.47	1.82	1.77	0	0	10

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

Use the back of the form if needed.

Rus - Sure!

Roo - Sure!

RKS - SURF RKT - WAT 100' LEFT DUETD ROCKS

ILB - CXLM

TURBIDITY VERIFICATION										
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)						
Standard	0.06	5.78	57.2	567						
Pre-sampling	0,10	5.94	57.4	565						
Post-sampling	0.06	5.70	58.4	569						

CHAIN OF CUSTODY INFORMATION									
	# of samples	Relinquished to	Contact						
Sediment									
Nutrients	6	KAL	N. Sampson						
Bacteria		-							

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

Signature (Team Lead):

Printed Name: Nalei Sampson

Last updated July 2021

Team	R2RS	Samplers	Frei Kerry T.
Session	101	(Last Name, 1st Initial)	
Date	03/01/22		McLaughlin, B. Kranberg, J.

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS220301-N-1	Napili Bay	V		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO220301-N-1	Pohaku	전	0	8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS220301-N-1	Kaanapali Sh	d		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT220301-N-1	Kahekili Beach Two	Ø	0	0:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB220301-N-1	Canoe Beach	q		9:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA220301-N-1	Wahikuli	ΞV		9:65	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments											
					500 ml						
					500 ml						
					500 ml						
					500 ml						

Signature (Team Lead):	Printed Name:	
Arolekan	Nalei Sampson	

Team	Polanui	Samplers	Guad K	11 1	Meters and Pro	hae ID	
Session	101	(Last Name, 1st Initial)	Mayen, Y	Harris, K	HQ40d: 2		00Q: NBBF
Date	03/02/2022		Gonzales,T		рН: 6	DO: 4	Salinity: 4

Location Name	Freshwater	Time	Temp (°C) yariable Salinity (ppt) 30-35 normal (mg/L)	Salinity	Dissolved	Oxygen					People (within 100 ft)		
Sample ID	Flowing (Y/N)	(of collection)		(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)			water	beach	camp		
505 Front St PFF220302	У	8:13	24.5	35.6	6.04	88.6	8.13	3.46	2.74	3.35	□	2	0
Lindsey Hale PLH220302	N	8:39	24.5	35.7	5.83	85.7	8.13	9.51	10.1	8.31	٥	1	0
Lahaina Town PLT220302	N	8:58	24.8	35.D	5.88	86.6		12.4	11.9	12.1	7)	٥	٥
Camp Olowalu OCO220302	N	9:26	243	35.7	6.41		8.12	3.14	3.12	3.35	٥	٥	0
Papalaua Pali OPP220302	N	9:47	26.0	36.0	6.90	104.2	8.17	10.7	10.7	9.68	0	δ	0

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

OPP strong shore break

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	5.78	57.2	567
Pre-sampling	0.06	5.77	57.7	568
Post-sampling	0.07	5.72	57.7	567

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	5	KA1_	N. Sangson				
Bacteria	-	1999					

Sites with potential for freshwater flow: 505 Front St.

Signature (Team Lead)

Printed Name:
Note: Sampson

Team	Polanui	Samplers	Gund, K Hamis, K
Session	101	(Last Name, 1st Initial)	Mayen, Y
Date	03/02/2022		Gunzales, T

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF220302-N-1	505 Front St	DZ/		8:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH220302-N-1	Lindsey Hale	区		8:39	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT220302-N-1	Lahaina Town	図		8:58	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO220302-N-1	Camp Olowalu	DZ/		9:26	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP220302-N-1	Papalaua Pali	гd		9:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
1 72 July 1			500 ml	
			500 ml	
			500 ml	
			500 ml	

Signature (Team Lead):	Printed Name:	
Signature (Team Lead):	Walei	Sampson

Team	R2RN	Samplers	Brg, L.		Meters and Prob	es ID		
Session	101	(Last Name, 1st Initial)	Hutchings,	L.	HQ40d: 2		2100Q:	NBBF .
Date	03/03/22		Heremann	, C	рН: 💪	DO: 4		Salinity: 4

				Salinity	Dissolved	Oxygen	There				People	(within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)	2.531	water B	beach	camp
Honolua Bay RHL220303	N	8:05	23.2	35.3	6.55	94.0	9.20	2.73	1.86	178	Ø]	1	0
Oneloa Bay RON220303	N	8:45	24.6	35.8	6.84	101.0	8.19	0,57	0.62	0.71	0	0	2
Kapalua Bay RFS220303	N	9:15	24.7	34,4	6.71	98.5	4.11	2.53	2.25	Z.11	6	21	0
Ka'opala Bay RKO220303	N	9:35	24.7	35.2	6.40	94.3	8.10	6.58	6.53	6.56	0	/	0
Kahana Village RKV220303	N	9:53	25.3	35.0	6.70	99.5	8.13	351	4.89	4.55	2	10	0
P.o.		No.		The second of		The Time		4.73	MB				Alexander Co.

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

RHL COLM Conditions

Turbiolity 2.53 4th 2.41 5th Suring this one [MB]

RON Colm Wind, SWF-Small

RKV 4th Turbackty 4.73
Lyusing thus one [MB]

- Redid nutrient sample since 1st sample was only ~ 50 ml (used new syringe, titer, bottle).

post-sampling and Medium turbidity standard reading: 57.2 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	0.08	5.78	57.2	567				
Pre-sampling	0.09	5.72	51.3	570				
Post-sampling	0.07	5.70	55.7	567				

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	5	KAL	M.Beeson				
Bacteria	-						

Signature (Team Lead): Printed Name: Meredith Beeson

Team	R2RN	Samplers	Bugit.
Session	101	(Last Name, 1st Initial)	Hutinings, L.
Date	03/03/22		Henenann, C.

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL220303-N-1	Honolua Bay	d		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON220303-N-1	Oneloa Bay	e		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS220303-N-1	Kapalua Bay			9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO220303-N-1	Kaʻopala Bay	d		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV220303-N-1	Kahana Village	8		9:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	

Signature (Team Lead):	Printed Name:	
ms	Meredith Beeson	