

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

Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
96	M. Rewon	11/1/21	9:35	M. Bellin	11/4/21	11:00

QA/QC Check	Inst#	Probe #	Last Cal Date		PR Verificat		PO Verificat	ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	<u>NIST</u> 25.7 <sub>°C</sub>	<u>NIST</u> 25.5 ℃	<u>NIST</u> 2S.5 <sub>℃</sub>	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	4	3	8/17/23		25.5		25.2	112 25			
	4	4	.8/17/23			25.4		_			
Salinity			3 months	Std Val	Tap water	Salin Std <u>4/27/21</u> date <u>33.5</u> ppt	Tap water	Salin Std 6 27/24 ate 33.5 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	10/8/21		0.41	34.9	0.43	34.8		Is Cathy's standard really 33.5?	
ME III	1	4	10/8/21		0.42	35.2	1	-		Is som having the same readings?	
Dissolved Oxygen			1 <u>I year</u>	Std Val	10	0%	10	0%	± 5 %		
	1	4	8/12/21		101.	0%	99.9	7%			
	1	1	9/28/20		98.7	to.	-	_		Need to find battery piece to replace.	
рН	9		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	
	1	6	11/1/21		7.04	9.99	7.04	10.07	110	got 10.07 3 times dnew buc bottle (10.01) solution	
	1	5	11/1/21		7.04	9.97	_	. —		FENEW BUZ BARCE (10.01) JOICHIE	·~
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	10/8/21		0.06	5.38	0.06	5.47		* LOW: S.41 NTV	
	NBBF	n/a	10/8/21		0.06	5.55	_	_		\$ 600: 5.41 NTV \$ 600: 5.56 NTV	

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

6 .	Samplers Samplers	Bewon, M.	Meters and Probes ID	1	
Session 96	(Last Name 1st Initial)	Sampson, N.	HQ40d:	2100Q:	1
Date 11/	/2/2021		pH: <b>(</b> <i>Q</i> DO:	4	Salinity: 3

Location Name	Freshwater	Time		Salinity	Dissolved	l Oxygen				- Section -	Peopl	le (within 10	00 ft)
Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)			water	beach	camp
Napili Bay RNS211102	N	8:10	26.2	36.8	6.65	101.5	8.22	1.33	1.54	1.40		3	Þ
Pohaku RPO211102	~	8:44	26.0	34.8	6.72	101.1	8.20	7.44	7.64	7.99	·	6	Ø
Kaanapali Sh RKS211102	17	9:08	26.8	37.0	6.64	102.3	8.21	3.25	3.98	3.22	2	9	Ø
Kahekili Beach Two RKT211102	N	9:34	26.5	36.8	6.65	102.1	8.20	7.92	7.81	7.15	Ø	3	Ø
Canoe Beach RCB211102	N	10:00	26.5	36.2	6.68	101.9	8.2\	2.67	2.69	3.19	ø	4	Ø
Wahikuli RWA211102	N	10:22	26.7	35.8	6.51	100.4	8.19	2.67	2.72	2.60	Ø	5	Ø

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

RNS - large shore break, 8.22 ×3 for PH

PPO - dag on beach, lots of surfus, bigswell; sand has filled in the beach - higher level than last sampling session, 8.20 x3 for pH

1245 - medium wave action, freshwater blocked by sand dune, but relatively dear, can see fish inside, second salmity reading 369, 8.20 X2 for pH

RKT - continuing to sample off to the right due to rock exposure; ptt: 8.20 x3 times

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

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	541	56.1	625
Pre-sampling	0.07	5.38	55.9	625
Post-sampling	0.07	5.46	56.1	623

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment		-	-					
Nutrients	le	KAL	M. Beeson					
Bacteria	- ·	-	- 1					

Signature (Team Lead):	Printed Name:	W.
Moses	Meredith Beeson	

Hui O Ka Wai Ola - Sample Collection Datashee

Team	R2RS	Samplers	Buson, M.
Session	96	(Last Name, 1st Initial)	Sampson, N.
Date	11/2/2021		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS211102-N-1	Napili Bay	Q		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO211102-N-1	Pohaku	ď		8:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS211102-N-1	Kaanapali Sh	<b>D</b>		9:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT211102-N-1	Kahekili Beach Two	Q'		9:34	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB211102-N-1	Canoe Beach	o/		10:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA211102-N-1	Wahikuli	<b>a</b>		10:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

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

Team	Polanui	Samplers	Mayen I	Meters and Probes ID	
Session	96	(Last Name, 1st Initial)	Harris K	HQ40d:	2100Q: \
Date	11/3/2021			pH: (ρ DO:	4 Salinity: 3

	Freshwater			Salinity	Dissolved	Oxygen					People	e (within 1	00 ft)
Location Name Sample ID	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)		water	beach	camp
505 Front St PFF211103	У	8:15	26.2	35.9 m 7.58	6.18 N	93.4	8.07	.85 1.21M	.84	.82	D	۵	٥
Lindsey Hale PLH211103	N	8:42	26.4	36.5	6.02	91.7	8.12	3.5%	3.10	2.90	٥	٥	0
Lahaina Town PLT211103	N	9:01	<b>3</b> 6.5	36.6	6.17	94.1	8.13	2.23	2.51	284	0	J	٥
Camp Olowalu OCO211103	N	9:36	28.8	34.8	6.23	97.2	8.10	.98	. 96	. 98	2	2	۵
Papalaua Pali OPP211103	N	9:54	27.6	36.9	6.59	102.5	8.16	2.96	3.15	3.06	۵	D	٥

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

PPF- Kit put PH probe in by mistake on 1st read @ Took 4th read on turbidity

PLT 2 monk Seals south 1st reef

No tope of on KCL

KCL tipped so we added some (too much?

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	6.07	S. 41	56.1	625
Pre-sampling	0.09	5.39	55.7	626
Post-sampling	0.06	5.41	56.0	628

CHAIN OF CUS	STODY INFORMATIO	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	KAL	N. Sampson
Bacteria		-	1

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

Sites with potential for freshwater flow: 505 Front St.

Team	Polanui	Samplers	Mayen, Y.	
Session	96	(Last Name, 1st Initial)	Hams, K.	
Date	11/3/2021	Tot Initial)		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time Volume Protocol Notes		Protocol Notes	Comments
Nutrients							
PFF211103-N-1	505 Front St	Ø		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH211103-N-1 Lindsey Hale		☑		8:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT211103-N-1	Lahaina Town	Ø		9:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	9
OCO211103-N-1	Camp Olowalu	ਰ		9:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP211103-N-1	Papalaua Pali	Q		9:54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments								
				500	00 ml			
				500	00 ml			
				500	00 ml			
				500	00 ml			

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

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RN	Samplers	Hutchings, L; Hehemenn, C; Becson, M.	Meters and P	robes ID		
Session	96	(Last Name, 1st Initial)	Floyd, M. BIESER, S.	HQ40d: \		2100Q:	1
Date	11/4/2021		observing	рН: 6	DO: U		Salinity: 3

Location N	Freshwater	Time	T	Salinity	Dissolved	Oxygen					People	e (within 1	00 ft)
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
Honolua Bay RHL211104	N	8:W)	24.9	36.2	6.59	98.0	8.16	17.2	15.8	169	0	7	0
Oneloa Bay RON211104	-	8:40A	26.1	36.9	6.69	102.1	8.20	1.23	1.63	1.29	0	0	0
Kapalua Bay RFS211104	1	9:05A	26.3	36.5	6.71	102.7	8.17	3.43	3.26	9.01	14	0)	0
Ka'opala Bay RKO211104	N	9:350	25.7	36.3	6.70	101.3	8.14	17.4	17.0	16-8	0	0	0
Kahana Village RKV211104	N	9:552	263	36.8	7,16	109.5	8.26	401	3.97	4.25	1	4	1

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

RHL-ROW Sprinkers & high sort on outer break.
52 linity 2nd reading 36.2.
PH 2nd reading 8.16

RON-Salinity tested twice at 36.9

RFS-Salinity 2nd reading 365

RKO-2nd root salinity 36.2 ppt

RKV-2nd rooding DO 90 109.4

-water in stream, but not flowing to ocean

Rained last night in Kahana; drizzled throughout the morning.

<u>Sites with potential for freshwater flow:</u> Honolua Bay, Kahana Village

TURBIDITY VERIFICATION								
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)				
Standard	6.07	5.41	56.1	625				
Pre-sampling	0.06	5.43	557	627				
Post-sampling	0.06	5.47	56.0	624				

CHAIN OF CUSTODY INFORMATION					
	# of samples	Relinquished to	Contact		
Sediment	8	-	-		
Nutrients	5	KAL	M. Buson		
Bacteria	-	_			

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

Team	R2RN	Samplers	Hutchings, L.	observing:	
Session	96	(Last Name, 1st Initial)	Hehemann, C.	Floyd, M.	
Date	11/4/2021	ist initial)	Becon, M.	Bieser, S.	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL211104-N-1	Honolua Bay	d		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON211104-N-1	Oneloa Bay	Q		8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS211104-N-1	Kapalua Bay	Ø		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO211104-N-1	Kaʻopala Bay	4		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV211104-N-1	Kahana Village	D		9:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments							
					500 ml		
					500 ml		
					500 ml		
		- 🗆		20	500 ml		

Printed Name:	
Meredith Boceson	