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

Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
108	M. Beeson	7/25/22	8:55am	L. Yannell	7 28 22	

QA/QC Check	Inst #	Probe #	Last Cal Date		PR Verificat	RE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 27.7 °C	NIST 27.7 _{°C}	<u>NIST</u> 2 7.6℃	NIST Z TO Z	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	4	3	8/17/23		27.6	27.等	27.5				
	4	4	8 17 23			27.6		27.2			
Salinity Std Val Std Val Salin St		± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle								
	3	3	5/23/22		0.03	33.7	0.45	33.9		0.03 ppt is viz's tap 1120 from hom Lab tap read 0.48 ppt	ع
	3	4	5/23/22		0.03	33.8	0,45	33.8		300 100 1 Cabi	
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	3	1	2/7/22		105.	105.6%		102,	7	Finally got broken shroud off	
	3	4	8/12/21		98.	62	97.3			Finally got broken shroud off #4 * reading high so sending #4 #4 sensor cap expires in 12 d	
рН			3 weeks	Std Val	рН 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	
	3	7	7/25/22		7.01	9.97	7,04	9.99			
	3	6	7/25/22		7.00	9.97	7.00	9.96			
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 5.72 _{NTU}	<u>BLANK</u> <0.1	LOW 1-10 5.72 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	7/4/22		80.0	5.69	0.06	5,70			
	-	n/a	_		-	_	_	_		NBBF retired for now	

QA: * Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Lab: KML-Z

Team	R2RS	Samplers	Last Name	Meters and Probes ID					
Session	108	(Last Name, 1st Initial)	BIESER, S	но2200: 3	2100Q: (
Date	07/26/2022			pH: [№] # 7 DO:	4 Salinity: 3				

	Freshwater	Time		Salinity	Dissolved	Oxygen	-W	Turbidity		Peop	le (within 10	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	(NTU)		water	beach camp	
Napili Bay RNS220726	N	8:06	25.7	33.6	6.98	103.6	8.10	3.74 3.82	3.59	4	6	0
Pohaku RPO220726	N	8:35	25.3	33.2	6.87	100.9	8.23	2.63 3.19	2.93	i	10	0
Kaanapali Sh RKS220726	N	9:03	25.4	35.7	6.84	102.0	8.18	2.06 2.22	1.87	O	2	0
Kahekili Beach Two RKT220726	N	9:30	26.4	35.6	6.67	101.0	8.23	2.48 2.36	1.98	0	2	0
Canoe Beach RCB220726	N	9'.57	27.1	35,5	6.49	99.4	8.22	4.13 4.29	4.55	O	5	0
Wahikuli RWA220726	N	10:12	26.5	34.9	6.62	100.1	8.22	7.70 8.73	8.46	0	0	0

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

RNS-0-1' swells

RPO-Did 4th turb. Reading: 3.10

RKS- Beach restoration & construction going on in Front of sampling area.

RKT - 4th torb. reading: 2.45

RCB- 3' SURF, LOTS OF Whitewater

RWA 41 SORF, Large Shore break, 4th turb. peading: 8.42

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

TURBIDITY VER	IFICATION			
j	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.08	5.72	57.0	598
Pre-sampling	0.08	5.78	56.3	598
Post-sampling	0.07 o.07	5.74	57.0	598

	# of samples	Relinquished to	Contact
Sediment		The state of the s	- 4.7
Nutrients	6	KAL-Z	M. Breson
Bacteria		-	- 4.4

Signature (Team Lead): **Printed Name:**

moceon

Meredith Breson

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	R2RS	Samplers	Floyd, M.
Session	108	(Last Name, 1st Initial)	Bieser, S.
Date	07/26/22		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS220726-N-1	Napili Bay	1		8:06	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO220726-N-1	Pohaku	⊌′		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS220726-N-1	Kaanapali Sh	ď		9:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT220726-N-1	Kahekili Beach Two	ď	0	9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB220726-N-1	Canoe Beach	ď		9:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA220726-N-1	Wahikuli	Q		10:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments	Sediments										
	7.54				500 ml						
		D 32			500 ml						
					500 ml						
					500 ml						

Signature (Team Lead):	Printed Name:		100
Msuson	Meredith	Beeson	

Team	Polanui	Samplers	HARRIS, K	Yannell, L.	Meters and Probe	es ID	
Session	108	(Last Name, 1st Initial)	CORCORAN, X		но2200: З	2100Q:	1
Date	07/27/2022		GUND, K		рН: 7	DO: 4	Salinity: 3

				Salinity	Dissolved	l Oxygen					Peopl	e (within	100 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)	,	water	beach	camp
505 Front St PFF220727	Y	8:16am	35:30	35.3	6.25	93.8	8.10	2.12	2.36	2.25	- Ø	5	Ø
Lindsey Hale PLH220727	N	853 am	26,2	35,1	5,84	87,9	8.12	1.02	1.18	1.16	2	ı	ø
Lahaina Town PLT220727	N	9:23	26.6	35.7	6,34	96,6	8,09	0.86	0.76	0.79	11	ø	Ø
Camp Olowalu OCO220727	N	Company of the second	10										
Papalaua Pali OPP220727	14												

	NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
	Use the back of the form if needed.
	KRISTY GUND ONLY PARTICIPATED AT PFF.
,	191_ Beach goer/local said sediment cleared up
0	PLT-Beach goer/local said sediment cleared up utthrough channel after last swell. Site seemed
	clearer. I canoe paddled through site ~5 min before sample the SUP yoga class will 4 ppl ~30 ft from site calm waters. Monk seal resting ~200 ft out
	Canol paodita mount si
	Sur yoga class wy 4 ppl o 30 tt from site
	Calm waters. Monk seal resting ~ 200 ff out
	(CALL) COLLEGE
	But assident and backed up traffic a

Bad accident and prevented us from	backed up	traffic	final
prevented us tr	+ OPP)	10 1 -	
two 31763 (000	4 0(1)		

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	0.07	5.72	57.0	598				
Pre-sampling	0.07	5,75	56.6	599				
Post-sampling	0.07	5,73	57.6	596				

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	3	KAL-2	Liz Yanna
Bacteria	20	-	-

Signature (Team Lead):	Printed Name:
Lin Jamel	Liz Yannell
11 1	

Team	Polanui	Samplers	Harris, K.	Yannell, L.	
Session	108	(Last Name, 1st Initial)	Corcoran, K.		
Date	07/27/2022		Gund, K.		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF220727-N-1	505 Front St	d		8:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH220727-N-1	Lindsey Hale	Ø		8:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT220727-N-1	Lahaina Town	Ø		99:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO220727-N-1	Camp Olowalu				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	they road accident
OPP220727-N-1	Papalaua Pali			/	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	last two sites.

Sediments	Sediments									
			500 ml							
			500 ml							
			500 ml	No. Section						
			500 ml							

Signature	(Team Lead):	Printed Name:	
Lin	Yandle	Liz Yannell	
			334

Team	R2RN	Samplers	Hutchings, L.	Sharpe, M.	Meters and Prob	es ID	
Session	108	(Last Name, 1st Initial)	Gund, W.		HQ2200: 3	2100Q:	1
Date	07/28/22		Yannell, L.		pH: 7	DO: 4	Salinity: 3

				Salinity	Dissolved	Oxygen		Turbidity (NTU)		People (within 100 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			water	beach	camp	
Honolua Bay RHL220728	N	8:05	25.1	34.8	5.69	84%	8.08	3.78	3.82	4.17	5	11	Ø
Oneloa Bay RON220728	N	8:47	25.9	35.4		102.7	8.18	0.73		0.81	Ø	+2	Ø
Kapalua Bay RFS220728	N	9:16	264	32.2	6.56	97.7	8.54	1.90	1,91% 2,24	G 1.70	24	45	Ø
Ka'opala Bay RKO220728	N	10:45	25.9	34.4	6.75	1009	8.18	7.82	7,64	8.26	Ø	2	Ø
Kahana Village RKV220728	10	10:30	26.0	34.7	6.49	97.2	8.07	4.45	4,42	4.839	5	2	P

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

Calm waters

RON: some shorebreak (small), sunny RKO: water appeared brown at the wave break out on the reef

TURBIDITY VERIFICATION							
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)			
Standard	0.07	5.72	57.0	598			
Pre-sampling	0.05	5.60 Ey	56.7	601			
Post-sampling	0.00	5.70	56.8	597			

CHAIN OF CUSTODY INFORMATION						
	# of samples	Relinquished to	Contact			
Sediment	-	-	-			
Nutrients	5	KAL-Z	Liz Yannel			
Bacteria	-		-			

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

Signature (Team Lead):

Printed Name:

Team	R2RN	Samplers	Hutchings, L.	Sharpe, M.
Session	108	(Last Name, 1st Initial)	Gund, Ki	
Date	07/28/22		Yannell, L.	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL220728-N-1	Honolua Bay	ਖ		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON220728-N-1	Oneloa Bay			8:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS220728-N-1	Kapalua Bay	2		9:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO220728-N-1	Kaʻopala Bay	Q		10:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV220728-N-1	Kahana Village	d		10:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	

Signature (Team Lead):	Printed Name: Liz Yanne 1	