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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
_1171	Yannell, J. Erwin	2/6/23	10:13 AM	L. Yannell, J. Erwin, E. Johnson	2/9/23	2:32 PM

QA/QC Check	Inst#	Probe	Last Cal Date			RE: ion Value		OST: tion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	28.8 c	29.8c	NIST 26.5	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
		3	8/17/23		28.8	29-7	26.3				
Salinity			3 months	Std Val	Lap water	9/29/22/me 33.7 ppt	<u>Lap water</u>	Salin Std 9/29/22-date 33.7 ppi	+ 1 ppt	Lap water - compare pre & post values Salmity Std - compare to value on Salmity Std bottle	
		3	11/28/23		0.06	33.6 34.2	0.05	34.3	2	>confirmed tap water ppt with 2nd reading	
Dissolved Oxygen			Lvear	Std Val	10	100%		00%	= 5 ° a		
	3 4	14	216/23 8/15/22		100.0		100.	1016		calibration successful today	
рН			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	
	3 4	76	2/6/23 2/6/23		7.02	9.99	7.63	10.00			
Turbidity			3 months	Std Val	<u>BLANK</u> <0.1	LOW 1-10 5.23 _{NTU}	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1 4	n/a n/a	2/6/23		0:05	6,23 643	0.05	5.21		Low Stanbard 6.43	

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

* Delay times are ok? * Other equipment issues?

OLP lab

Team R2RS	Samplers	Floyd, M	Meters and Probes I	Meters and Probes ID			
Session 117	1st Initial)	HQ2200: 3	2100Q:	2100Q: 1			
Date 2/07/2023		bleser, S	pH: 7 DC): 1	Salinity: 3		

Landin No	Freshwater	Time		Salinity	Dissolved	Oxygen	U	Tunkidian		People	e (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	Turbidity (NTU)		water	beach	camp
Napili Bay RNS230207	N	8:15	24.2	36.1	6.80	98.8	8.15	1.0to.79 o.	86	0	1	0
Pohaku RPO230207	N	8:42	24.6	35.3	6.57	95.7	8,14	3-13 3 10 3	74	0	0	Ø
Kaanapali Shores RKS230207	Y	9:05	24.3	35.4	6.80	98.7	8.19	1.27 1.64 (13	33	1	1	0
Kahekili Beach Two RKT230207	N	9:35	24.1	35.7	6.76		8.16	3.19 3.13 3.	07	3	2	0
Canoe Beach RCB230207	N	10:00	25.1	35.8	6.69	- 1 3	8.19	ā.60 2.44 2.	62	0	16	0
Wahikuli RWA230207	N	6.19	25.3	34.5	6.75	99.5	8.20		63	5	2	Ø

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

Pre-Sample note: MEDIUM Sample test LOW - took 2 READINGS

RNS: 1-2 Ft swells, ught rain

RPO: CALM, ught rain - took All NEW Torkty readings Due to rain on Vials: confirmed RKS: 3FT water Flow from Freshwater Stream

Light rain, exemswells
4th toutity reading 1.54
PCB: calm swells

Sites 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	0.05	5.23	1157.4	619
Pre-sampling	0.05	5.21	55-5	625
Post-sampling	0.07	5.17	56.156.2	673

CHAIN OF CUS	STODY INFORMATION	JN	
100 A L	# of samples	Relinquished to	Contact
Sediment	· · · ·	7 2 E	-
Nutrients	V	DLP	Liz Yanne
Bacteria		4 5 1	C POLITICA

Signature (Team Lead) **Printed Name:** Yanne Figure Ka Wardhas Sample Callection Datasheet

Team	R2RS	Samplers	Floud, M.
Session	117	(Last Name, 1st Initial)	Quesas S.
Date	02/07/23	13t Illitial)	126261,2,

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS230207-N-1	Napili Bay	Ø		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO230207-N-1	Pohaku	d		8:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS230207-N-1	Kaanapali Sh	4	20	9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT230207-N-1	Kahekili Beach Two	Ø		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB230207-N-1	Canoe Beach	Ø		10:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA230207-N-1	Wahikuli			10:19	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
				A SECTION AND A			
Sediments							
					500 ml		

Sediments			
- P		500 ml	
		500 ml	
		500 ml	200 Control (17) (4)
		500 ml	

Signature (Team Lead):	Printed Name:
In yand	4 Liz Yannell

Team	Polanui	Samplers	GUND, K	Meters and Probes ID	
Session	117	(Last Name, 1st Initial)	GONZALEZ, T	HQ2200: 3	2100Q: 1
Date	2/08/2023		YANNELL, L JOHNSON, E	pH: 7 DO:	1 Salinity: 3

				Salinity	Dissolved	Oxygen			People	e (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		water	beach	camp
505 Front St PFF230208	У	8:18	24.0	35.3	5.46	82	8.10	2.57 4.33 3.45	Ø	Ø	Ø
Lindsey Hale PLH230208	N	8:45	24.5	35.2	5.23	76.3	8.05	7.79 9.01 8.93	6	2	Ø
Lahaina Town PLT230208	N	9:05	24.8	35.5	5.54	81.3	8.08	9.25 9.31 9.98	Ó	0	0
Camp Olowalu OCO230208	N	9:42	24.3	35.8	6.81	99.2	8.15	2.98 3.11 3.55	0	Ø	l
Papalaua Pali OPP230208	N	10:04	24.0	35.5	7.04	102.2	8.16	2.31 2.79	D Ø	Ø	Ø

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

Use the back of the form if needed.

PFF 4Th Tiribidity 3.89 replaced 2.57, calm water PLH 2nd D.O. % to verify, same reading.
PLH + PLT - brown and silty water at the shore; calm waters

Oco-wind picking upisunny

OPP-WINDY + WAVE ACTION

Sites with potential for freshwater flow: 505 Front St.

TURBIDITY VER	RIFICATION			
Y	Blank (must be <0 10)	Low (+/- 0 18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.07	5.23	57.4	619
Pre-sampling	0.06	5.36	56.0	623
Post-sampling	0.06	5.12	56.2	623

CHAIN OF CUSTODY INFORMATION						
	# of samples	Relinquished to	Contact			
Sediment	-	-	-			
Nutrients	5	OLP	Liz Yannel			
Bacteria		102 Norma				

Signature (Team Lead):	Printed Name:
Long Grill	Liz Mannel

Team Polanui	Samplers	Gund, K.	
Session 117	(Last Name, 1st Initial)	Gonzalez, T.	
Date 2/08/202		Janvell, L.	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF230208-N-1	505 Front St	d		8:18	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH230208-N-1	Lindsey Hale	ď		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT230208-N-1	Lahaina Town	Q		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO230208-N-1	Camp Olowalu	Ø		9:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP230208-N-1	Papalaua Pali	ď		10:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	C 7 20 (0) 2 (2)

Sediments						
				500 ml	2	
	and the same		en e	500 ml		
200				500 ml		
				500 ml		

Signature (Team Lead):	Printed Name:
Los Janell	tiz Mannell

Meters and Probes ID
HQ2200: 3 2100Q: 1
pH: 7 DO: 1 Salinity: 3
and the second

. 1	Freshwater	Time	Temp Salinity		Salinity Dissolved						People (within 100 ft)		
Location Name Sample ID	Flowing (Y/N)	(of collection)	(°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)			water	beach	camp
Honolua Bay RHL230209	# CH	8:154	_	No	SAN	PPLI	100	- (++			LHO	0	-
Oneloa Bay RON230209	N	8:15A	23.4	36.2	6.91	99.8	8.21	0.53	0.65	0.65	0	0	6
Kapalua Bay RFS230209	N	8:50	23.6	36.1	6.76	97.7	8.19	1.10	0.89	0.81	0	5	0
Ka'opala Bay RKO230209	1	9.25	23.5	35.4	6.74	94.7	8.17	4.93	5.03	5.07	O	0	0
Kahana Village RKV230209	N	9:55	235	35.0	6.77	96.9	8.16	5.99	6.01	6.49	6	6	0

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

RON- extremely windy, gusty!!, waves

RFS - 4th turbidity taken

RKV - Very windy - Bridge still under repair

	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	5.23	57.4	6 19
Pre-sampling	0.05	5.13	55,8	1077
Post-sampling	0.05	5.21	56.1	Gla

	# of samples	Relinquished to	Contact
Sediment		_	
Nutrients	4	DLP	Liz Yanne
Bacteria	-	-	

Signature (Team Lead):

Printed Name:

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

Team	R2RN	Samplers	Huddlings	1
Session	117	(Last Name, 1st Initial)	Thorrowings,	0
Date	02/09/23		Hehemann,	C.

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments		
Nutrients									
RHL230209-N-1	Honolua Bay				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
RON230209-N-1	Oneloa Bay	Ø		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
RFS230209-N-1	Kapalua Bay			8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
RKO230209-N-1	Kaʻopala Bay	ď		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
RKV230209-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	
		A 644	500 ml	

rinted Name:
1 Lz yannell
1