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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
106	L. Yannell, M. Beeson	6/13/22	10:50	M. Beeson, C. Yannell	6/16/22	10:40

QA/QC Check	Inst #	Probe #	Last Cal Date			PRE: POST: ication Value Verification Value		Acceptable Range	Comments/ Notes	QA?	
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 27.4° _C	NIST 27.5°C	<u>NIST</u> 24.7°C	NIST - °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	4	3	8/17/23		27.3		24.6				
	4	4	8/17/23			27.4		_			
Salinity			3 months	Std Val	Tap water	Salin Std 1/17/22date 33.9 ppt	Tap water	Salin Std 1/17/22 date 33.9 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	3	3	5/23/22		0.44	33.6	0.03*	33.7		*Filtered tap water brought from liz's home	
-6	y+3	4	5/23/22		0.45	33.6	_	_			
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	3	1	2/7/22		99.	9%	100.0	o"/.			
	3	4	8/12/21		99:	7%	~	_			
рН			3 weeks	Std Val	pH 7.00 EXP' 3/23	рН 10,00 Екр. 3/23	pH 7.00	pH 10.00	± 0.1 pH of pH std value	Compare to Manufacturer pH Std value on bottle	
	3	7	6/14/22		7.02	9.97	7.02	9.98			
	3	ما	6/14/22		7,00	9.97	_	_			
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	<u>BLANK</u> <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	5/23/22		0.05	5.49	0.07	5.52		* LOW: S.S.S. NTU	
	NBBF	n/a	5/23/22		0.04	5.99	_	_		\$ 10W: 5.92 NTV	

QA:

* Are pre- and post within one week?

* Delay times are ok?
* Other equipment issues?

LAB: KAL-2

Team	R2RS	Samplers	Flogd, M	Yannell, L.	Meters and Probes ID	
Session	106	(Last Name, 1st Initial)		Cl = C = M	#10 2200 HO+10d: 3	2100Q: \
Date	06/14/2022		bleser, s	Sharpe, Mr.	pH: 7 DO:	Salinity: 3

				Salinity	Dissolved	l Oxygen			m 1:114		Peop	le (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)		water	beach	camp
Napili Bay RNS220614	N	8:22	24.8°	34.6	8,04	96.3%	8.09	1.07	1.15	1.61	5	4	Ø
Pohaku RPO220614	N	8:54	24.9°	32.8	8.31	99.9%	8.12	1.13	0.73	0.66	2	Ø	Ø
Kaanapali Sh RKS220614	W	9:16	25,4°	35.4	9.30	113%	8118	0.80	0.84	1.05	3	9	Ø
Kahekili Beach Two RKT220614	N	9:45	26.4 (26.684	25 1	8.31	102.9%	8.15	0.93	0.87	0.94	12	13	Ø
Canoe Beach RCB220614	N	10:15	26.9	35.2	8,17	102.07	81.8	4.73	4.86	4.50	5	13	Ø
Wahikuli RWA220614	N	10:32	26.2	33.4	8.11	100.1	8.18	0.66	0.6b	0.68	0	11	Ø

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form if needed.
RNS-light rain
Found scratch on turbidity vial during present. Decided to use spare vial for samples. Samplin RNS-1:13 4th turbidity reading
RNS-1,13 4th turbidity reading
1800 - 0.59 GHA turbidity reactives
0.76 4th turbidity reading
* Both turbidity vials are scratched brigh despite
RVS-light rand 0.76 4th turbidity reading *Both turbidity vials are scratched and post- sampling reads are consistently high despite trouble shoting 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	0.05	5.55	64.3	590					
Pre-sampling	ex8.98	5.6Ley	57.1	590					
Post-sampling	0.54*	5.490	56.1	590					

CHAIN OF CO.	STODY INFORMATION			
	# of samples	Relinquished to	Contact	
Sediment	-	-		
Nutrients	6	Kal-2	Liz Yannel	
Bacteria	<u> </u>		_	

ignature (Team Lead)	Printed Name:
In Jamel	Liz Mannell
711	V

Team	R2RS	Samplers	yannell, L.	Floyd, M.	
Session	106	(Last Name, 1st Initial)	Sharpe, M.	Blasers	
Date	06/14/22		'	Jaser 13,	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS220614-N-1	Napili Bay	d		8:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO220614-N-1	Pohaku	D /		8:54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS220614-N-1	Kaanapali Sh	ď		9:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT220614-N-1	Kahekili Beach Two	8		9:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB220614-N-1	Canoe Beach	Ø		10:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA220614-N-1	Wahikuli	R		10:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	

Signature (Team Lead):	Printed Name:	
In Janel	Liz. Yannell	

Team	Polanui	Samplers	enno, K	Meters and Probes ID		
Session	106	(Last Name, 1st Initial)	Beeson,M.	HQ2200 HQ40d: 3	2100Q:	
Date	06/15/2022		Yarnell, L. SHARPE, M.	рН: ¬ DO:	1	Salinity: 3

				Salinity	Dissolved Oxygen			Turbidity (NTU)			People (within 100 ft)		
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Time (of (°C) (ppt)		(mg/L)	(%) 85-105 normal	pH 8-8.3 normal				water	beach	camp
505 Front St PFF220615		8:24	27.4	34.8	6.33	8ø,3	8.ø1	1.83	1.63	1.88	Ø	3	Ø
Lindsey Hale PLH220615	7	8:55	27.1	34.7	6.17	77.3	8.07	1.19	1.15	1.25	Ø	2	Ø
Lahaina Town PLT220615	N	9:20	27.9	32.8	7.40	94.1	8.11	1.62	1.68	1.68	4	Ø	Ø
Camp Olowalu OCO220615	N	9:54	26.4	35.4	8.09	100.3	B.13	h24	1,22	1,12	4	2	Ø
Papalaua Pali OPP220615	N	10:25	26.7	35.6	9.12	113.8	8.23	2.21	2.48	2,52k	Ø	6	Ø

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

PFF- 4 doas in tout of water

PFF - CALM, NO WAVES - LOW TIDE,

PFF - REPREAD DO 90 - 80,0 FIRST READING

PLH- PHOTO DF LOW TIDE (MEREDITH)

PLH - MERER FOR TURBIDITY WOULDN'T POWER UP. ADJUSTED BATTERIES + 1+ WORKED.

PLH - LOW D.O. 2ND READ > 77.5

PLT - SAMPLE SITE WAS WALKED THROUGH AND THEN BACKTRACKED BECAUSE OF DEPTH CHANGE (SHALLOWER FACTHER FROM SHORE)

OCO- 4 IN WOTER INSTIALLY, 2 EXITED TO BEACH SEFORE SAMPLE.

Sites with potential for freshwater flow: 505 Front St. 2ND ROAD.

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.08	5.55	56.3	590
Pre-sampling	0.05	5.50	56.0	589
Post-sampling	0.05	5.59	56.3	588

	# of samples	Relinquished to	Contact
Sediment	-		-
Nutrients	5	KAL2	L. Yarvell
Bacteria		_	

Signature (Team Lead):

Ling mull

Printed Name:

Liz. Yannell

OPP - 4TH TURBIDITY READ = 1.77
5TH " = 2.52 (REPLACED 300 READ)

2ND REAL FOR SALMAY & P.S. TENDERSTON 7

Team	Polanui	Samplers	Yannell, L.	Gund, K.
Session	106	(Last Name, 1st Initial)	Sharpe, M.	
Date	06/15/2022		Beeson, M.	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF220615-N-1	505 Front St	d		8:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH220615-N-1	Lindsey Hale	2		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT220615-N-1	Lahaina Town	D/		9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO220615-N-1	Camp Olowalu	2 /		9:54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP220615-N-1	Papalaua Pali	P		10:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	
			500 ml	
			500 ml	
	V V		500 ml	

Signature (Team Lead):	Printed Name:	1
Liz Yamell	Liz Yannell	

Team	R2RN	Samplers	Berg L sharpe, M.	Meters and Probes ID					
Session	106	(Last Name, 1st Initial)	Beeson, M.	Of cas beginning	H 622 HQ400	∞ I:	3	2100Q:	
Date	06/16/22	Continues Contin	yannell, L.		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	Turbidity (NTU)			water	beach	camp
Honolua Bay RHL220616	N	8:12	24.9	34.4	7.18	86.5	70.8	19.8	20.1	22.1	6	3	ϕ
Oneloa Bay RON220616	N	8:47	25.6	35.3	8.70	106.4	8.19	0.53	0.49	0.42	0	2	Ø
Kapalua Bay RFS220616	N	9:12	25.9	35.4	7.85	96.6	8.08	1.04	1.06	1.30 M	23	26	0
Ka'opala Bay RKO220616	N	9:39	26.1	34.9	7.56	933	8.09	1.45	1.71	1.70	0	6	Ø
Kahana Village RKV220616	N	9:51	25.9	35.0	8.44	103.9	8.17	1.65	1.69	1.85	Ø	Ø	Ø

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

PHL - calm, loss of fish near rampling

Ron-Rain in the early morning guper low tide

RFS - 3 SUPs further out thecked ppt a 2nd time - also 35.4 ppt

RKV- Stream has been blocked due to dredging

King that this week?

Million I love					
Sites with potentia	for freshwater flo	ow: Honolua	Bay,	Kahana	Village

S. Prince Committee of the Committee of	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.04	5.55	56.3	590
Pre-sampling	0.05	5.58	56.6	590
Post-sampling	0.07	5.52	56.6	589

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-		
Nutrients	5	KAL-2.	1,12 yoursel
Bacteria	-	-	0100

Signature (Team Lead):	Printed Name:	
In James	l Liz Yannell	

Team	R2RN	Samplers	Beeson, M.	
Session	106	(Last Name, 1st Initial)	yannell. L.	
Date	06/16/22		Berg. L. Sheupe, M.	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL220616-N-1	Honolua Bay	8		8:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON220616-N-1	Oneloa Bay	8		8:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS220616-N-1	Kapalua Bay	1		9:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO220616-N-1	Kaʻopala Bay	8		9:39	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV220616-N-1	Kahana Village			9:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	

Signature (Team Lead):	Printed Name:	
moleon	Meredith	Beeron