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



Session No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post Date: Post Time:

60 Banker, B., Maxwell, C. 8/5/19 9:40am BHUKER B, MAXWELL C. 8/9/19 10:45

QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value			ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	n/a	Std Val	NIST 22.3 °C	NIST 22.3°c	<u>NIST</u> 24.5 ∘ _C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	İ	3	n/a		1.55		24.2				
	1	2	n/a			22.2					
Salinity	APPLICATE OF GREEN		3 months	Std Val	Tap water	Salin Std 6-3-19 date 34.3 ppt	Tap water	Salin Std 6-3-19date 34.3 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	ì	3	6/24/19		0.04	34,5	0.04	34.3			
	1	2	6/24/19		0-04	34.7					
Dissolved Oxygen	*		1 year	Std Val	100%		100%		± 5 %		
	l i	ms1	3/5/19 av	\	103	.3%	103.7%				
	l	2	8/5/19		90	7.7%					
pН			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	
	t	5	8/5 19		7.02	10.04	7.05	10,07			
	1	6	8/5/19		7.02	10.04					
Turbidity			3 months	Std Val	<u>BLANK</u> <0.1	LOW 1-10	BLANK <0.1	LOW 1-10 6.36NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	mary Samuel and Samuel
	3	n/a	6/24/19		0.06		0.04	6.44			
		n/a									

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

* Delay times are ok?

* Other equipment issues?

LAB TEMP PRE 22.3°C POST 23.0°C

Team	R2RS	Samplers	FILEIBELG, T, JARMAILMI, B; ABRAMAIS, A	Meters and Probes ID						
Session	60	(Last Name, 1st Initial)		HQ4	Od: \		2100Q:	3		
Date	8/6/19			pH:	5	DO:	ı	Salinity: 3		

	C4			Salinity	Dissolved	Oxygen		Turbidity (NTU)			Peopl	e (within 1	00 ft)
Location Name Sample ID	Streams 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
Napili Bay RNS190806	NA	8:15	27,4	35.6	6.60	102.0	8.13	5.47	4.96	5.67	0	4	NA
Pohaku RPO190806	NO	8:35	27.2	35.1	6.58	101,1	8.17	5.13	5.51	4.39	3	0	NA
Kaanapali Sh RKS190806	NA	4:55	27.0	35.8	6.53	100,4	8.11	5.73	5.91	5.94	6	8	NA
Canoe Beach RCB190806	NA	9:15	27.4	35.4	6.69	103.2	8-20	1.94	2-01	1,99	0	0	NA
Wahikuli RWA190806	NA	9:35	27.4	35.5	6.57	101,4	8-20	200	1.99	206	0	9	NA
		2002							V and the state of	A THE STREET STREET, S			

	equipment problems, errors, concerns).
Use the back of the form if needed.	

PUS - Calm Cloudy

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	6.36	56.8	585
Pre-sampling	0.11	6.41	57.2	585
Post-sampling	0.04	6.45	56:7	584

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	LLHS	C Maxwell
Bacteria			-

Signature (Team Lead): Printed Name:

Catherine Maxwell

Catherine Maxwell

Team R2RS	Samplers	Freiberg T
Session 60	(Last Name, 1st Initial)	Jarmakani, B Abromeitos, A
Date 8/6/19		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
RNS190806-N-1	Napili Bay			8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO190806-N-1	Pohaku	B.		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS190806-N-1	Kaanapali Sh			8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB190806-N-1	Canoe Beach	D'		9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA190806-N-1	Wahikuli	D D		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments										
		П	500 ml							
			500 ml							
			500 ml							
	0		500 ml							

Signature (Team Lead):	Printed Name:
Carlina Maxwell	Catherine Maxwell

Team	Polanui	Samplers	Bayly R	Mete	ers and Pro	bes ID		
Session	60	(Last Name, 1st Initial)	Harris K	HQ4	0d: (2100Q:	3
Date	08/07/2019		Tyler, L	pH:	5	DO:		Salinity: 3

	G4			Salinity	Dissolved	Oxygen			Turbidity		Peop	le (within 10	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	(NTU)		water	beach	camp	
505 Front St PFF190807	Y	8:15	28.1	35.7	6.42	100.2	8.10	2.21	2.43	1.83	10	25	J
Lindsey Hale PLH190807	N	8:50	28.2	35.9	6.42		8,07		9.46	9.23	0	4	D
Lahaina Town PLT190807	N	9:07	28.2	35.5	6.16	96.1	8.08	28.1	27.5	26.2	0	1	0
Olowalu Pier OSF190807													
										A control of the cont			

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

DO NOT TAKE NUTRIENT SAMPLE FROM OLOWALU PIER THIS EVENT (Will Only Be Taken Quarterly)

OLOWALUPIER NOT SAMPLED

TURBIDITY VER	LIFICATION				
	Blank (must be <0.10)	Low	Med	High	
Standard	0.04	6.36	56.8	585	
Pre-sampling	0.06	6.48	57.5	584	
Post-sampling	0.05	6.47	57.0	584	

	# of samples	# of samples Relinquished to		
Sediment	_			
Nutrients	3	LLHS	BH. BANKER	
Bacteria		_		

Signature (Team Lead):	Printed Name:
BUBIL	BRUCK H BANKER

Team	Polanui	Samplers	BAYLY, R.
Session	60	(Last Name, 1st Initial)	HARRIS,K.
Date	08/07/2019		TYLER, L

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments	
utrients								
PFF190807-N-1	505 Front St	2		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		
PLH190807-N-1	Lindsey Hale	₩		8:50	125 ml	Washed rinsed springer; acid washed		
PLT190807-N-1	Lahaina Town	₽.		9:07	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		
S. 14.								
dediments	·r	,	·			-		
					500 ml			
					500 ml			
					500 ml			

500 ml

Signature (Team Lead):	Printed Name:	inapatri.
BABA	BRUCEH. BANKER	

Team	Olowalu	Samplers	A 4 1	Meters and Probes ID	
Session	60	(Last Name, 1st Initial)	RANIE MIL	HQ40d:	2100Q: 3
Date	08/08/2019		GUND, F	pH: 5 DO:	1 Salinity: 3

	[_{C4}			Salinity	Dissolved	Oxygen	-11		Turbidity		Peopl	e (within 10	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	(NTU)		water	beach	camp	
Martin Hale OPM190808	N	7:19	27.5	36.2	5.62	86.9	9.03	1.81 LR	1.97	2.24	0	0	0
Camp Olowalu OCO190808	N	7:42	28.8		6.04	95.2		6.40	5.74	5.15	12	10	0
Ukumehame OUB190808	N	7:35	28,0	36.2	6,54	102.2	8.13	21.5	23,0	20.0	3	3	0
Papalaua Beach OPB190808	2	08:10	28.1	36.2	6.68	104.6	8.13	4.05	4.61	4.67	0	0	0
Papulua Pali OPP190808	N	08:20	28.1	36.0	6.66	104.1	8.15	4.5(4.23	4.66	0	1	0
					To rest (To rest (S))				And the second s	ALITHMETICAL PROPERTY AND ALITHMETICAL PROPE			

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

DO NOT TAKE NUTRIENT SAMPLES THIS EVENT (Will Only Be Taken Quarterly)

2100 Q struggled to turn on during PRE-sample. We replaced the batteries.

FIRST Z SITES - LEAD TEMP FROM "DO" PROBE. LATER NOTED "DO" TEMP CAT LATER SITES) LAN O.Z HIGHER THAP SALINITY PROBE.

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	6.3 Low	56 Med	High 0
Standard	0.05	6.47	57.0	584
Pre-sampling	0.19	6.51	57.3	584
Post-sampling	0.04	6.50	57.1	584

CHAIN OF CUS	STODY INFORMATION	JIN	
	# of samples	Relinquished to	Contact
Sediment	0	N/A	N/A
Nutrients	0	N/A	N/A
Bacteria	0	N/A	N/A

Signature (Team Lead):	Printed Name:
BH.Bon	BRUCK H. BANKAIN

Team	Olowalu	Samplers	NOPOMEN, R.
Session	60	(Last Name, 1st Initial)	ICANIKRI, L
Date	08/08/2019		GUND, K

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Vutrients							
Sediments	T	1	1	7	-	T	
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:
BH-Bor	BRUCK H-BANKER

Team	R2RN	Samplers Hubblings, L, Maxwell, C, Berg L	Meters and Probes ID		
Session	60	(Last Name, Cm Hutching) 1st Initial)	HQ40d: /	2100Q: 3	
Date	8/9/19		pH: 5 DO:	1 Salinity: 3	

	C			Salinity	Dissolved	Oxygen	-II	Turbidity			Peop	le (within 1	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Ó	(NTU)	-	water	beach	camp
Honolua Bay RHL190809	N	749	26.4	35.3	5.21	278.9	8.09	0.90	1.03	1.56	2	10	0
Oneloa Bay RON190809	→ mou	826 7	272	35.9	4.00	105.8	8.15	0,71	0.64	0,66	2	6	0
Kapalua Bay RFS190809		850	27.6	35.Z	6.39	98.7	から	1.72	1.47	1.92	13	6	0
Ka'opala Bay RKO190809	N	95	27.9	35.1	6,00	93.1	8.12	7.39	7.63	7.44	0	0	Ð
Kahana Village RKV190809		934	27.8	35.9	5.55	86.4	8.12	6.51	6.92	6.40	Z	0	0

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

RHL- Dome floppy particles vi Dample - sample area vi shade from trees

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.36	56.8	585
Pre-sampling	0.04	6.42	56.8	584
Post-sampling	0.04	6.44	57.2	584

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-		-
Nutrients	5	LLITS	CMaywell
Bacteria	_	-	-

Signature (Team Lead):	Printed Name:
J. 0 Em	\bigcap \mathcal{M} \mathcal{M}
athere I berwell	Catherine Maxwell

Team	R2RN	Samplers	Masteria, L, Marwell, C, Berg L Hutching
Session	60	(Last Name, 1st Initial)	Hatching
Date	8/9/19		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
RHL190809-N-1	Honolua Bay	e e		9 49	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON190809-N-1	Oneloa Bay	Ū∕		8 26	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS190809-N-1	Kapalua Bay	G⁄		850	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO190809-N-1	Ka'opala Bay	0′	П	915	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV190809-N-1	Kahana Village	ď		934	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
		en e					

Sediments				
	П	П	500 ml	
		П	500 ml	
		П	500 ml	
		П	500 ml	

Signature (Team Lead):	Printed Name:	
Carlania Marwell	Catherne Maxwell	