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



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

49 Maxwell C. Strickland, J. Read, D. 12 10 18 9:35 Strickland, J. Maxwell 12 14 18 11:14

QA/QC Check	Inst #	Probe #	Last Cal Date			RE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST こ	n/a	n/a	Std Val	<u>NIST</u> 21.7°C	<u>NIST</u> 21.6 ℃	$\frac{NIST}{2}$	<u>NIST</u> ℃	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	1	3	n/a		21.5		37.7				
	1	2	n/a			21.4					
Salinity			3 months	Std Val	Tap water	Salin Std Sissip date 32.6 ppt	Tap water	Salin Std 8 28 (8 date 32-6 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	11/26/18		0.04	32.9	0.04	32.9			
		2	11/26/18		0.04	33.1					
Dissolved Oxygen			1 year	Std Val	100	0%	100%		± 5 %		
=	I	1	4/2/18		98	.4%	90	1.7			
	1	2,	8 6 18		99	.8%					
pН	7000		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	5	(2/10/18		7.00	10.01	7.01	10.01			
	1	6	12/10/18		7.00	10.01					
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 6.27 _{NTU}	<u>BLANK</u> <0.1	LOW 1-10 6.27 _{NTU}	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	3	n/a	11/26/18		0.04	6.28	0.06	6.30			
		n/a	•			:					

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

MORRANT, FREBERGIT R2RS Team Meters and Probes ID Samplers (Last Name, 2100Q: Session 49 HQ40d: 1st Initial) Salinity: 3 DO: Date 12/11/2018 pH:

					Dissolved	Oxygen		Turbidity			People (within 100 ft)		
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН	(NTU)			water	beach	camp
Napili Bay RNS181211	N	0818	24.5	34.6	6.83	98.72	8.17	,91	.76	74	Þ	3	Ø
Pohaku RPO181211	N	8:44	24.1	34.5	6.80	97.7	8.15	126	14.0	13.9	Ø	Ø	Ø
Kaanapali Sh RKS181211	4	9:04	23.9	27.1	7.21	98.9	8.23	9.18	81.8	8.77	Ø	Ø	Ø
Canoe Beach RCB181211		9:24	25.5	34.5	6.49	95.5	8.20	0.59	0,54	0.60	0	200	Ø
Wahikuli RWA181211		9:44	25.7	34.0	6.72	99.0	8.22	1.95	1.93	1.86	0	2	0
(9)													j

Use the back of the form if needed.

RNS Steady Rain, & Visibility Molohan/& could draingle works of re bud 3-5 ff.

RPO Cloudy / rainbow/ No rain/waves Colm flat

RKS Rainbow/ low cloud our land we nain haves 1-2

RKS Rainbow/ low cloud our land of swells

Aprilder with dy, sunny oping swells

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

TURBIDITY VERIFICATION									
	Blank (must be <0.10)	Low	Med	High					
Standard	0.04	6.27	56.2	605					
Pre-sampling	0,07	6.30	56.9	605					
Post-sampling	0.03	6.34	56.6	605					

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	O		C. Maxwell
Nutrients	5	LLHS	C. Maxwell
Bacteria	0		C. Maxwell

Printed Name:	
Catherine	Marwell
	Printed Name:

Team	R2RS	Samplers	Morgan, T., Freiberg, T.	
Session	49	(Last Name, 1st Initial)	Jaimakani, B.	
Date	12/11/2018			

Date 12/11/2010							
Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS181211-N-1	Napili Bay			8:18	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO181211-N-1	Pohaku	Ď.		8:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS181211-N-1	Kaanapali Sh	Ø		9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB181211-N-1	Canoe Beach			9:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA181211-N-1	Wahikuli	Ø		9:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ě							
Sediments							
RNS181211-S-1	Napili Bay				500 ml		
RPO181211-S-1	Pohaku				500 ml		
RKS181211-S-1	Kaanapali Sh				500 ml		
RCB181211-S-1	Canoe Beach		П		500 ml		
RWA181211-S-1	Wahikuli				500 ml		

Catherin Maywell C	atherine Maxwell

Team	Polanui	Samplers	Bayley, R; Harris, K
Session	49	(Last Name, 1st Initial)	
Date	12/12/2018		Strichland, J

Meters and P	robes ID		
HQ40d:		2100Q:	3
pH: 5	DO:	1	Salinity: 3

					Dissolved	Oxygen			Turbidity		People (within 100 ft)		
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	рН	(NTU)		water	beach	camp	
505 Front St PFF181212	4	8:15	0.26	34.7	5.64	82.7	0.10	2.32	1,77 =	2.35	5	D	0
Lindsey Hale PLH181212	×	8:33	24.6	3343	6.00	96.9	8.09	8.25	7,78	10,8	3	0	D
Lahaina Town PLT181212	N	8:50	25.3	343	5.82	85.5	8.06	7.99	7.65	7,93	٥	0	0
Olowalu Pier OSF181212	\sim	9:20	1.46	34.9	6.50	6.49	8.14	1.21	1,47	16.1	٥	0	D
				400000									

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

TURBIDITY VERIFICATION										
	Blank (must be <0.10)	Low	Med	High						
Standard	0.03	6.27	56.2	605						
Pre-sampling	0.06	6.32	57.0	605						
Post-sampling	0.04	6.32	56.8	605						

	# of samples	Relinquished to	Contact
Sediment			
Nutrients	4	LHS	J. Str Mhlanl
Bacteria			

Signature (Team Lead):

Printed Name:

Jophes Strickland

Team	Polanui	Samplers	Bayley R: HARRIS, N
Session	49	(Last Name, 1st Initial)	
Date	12/12/2018		Strickland, J

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
PFF181212-N-1	505 Front St	R		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH181212-N-1	Lindsey Hale	Ą		8:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT181212-N-1	Lahaina Town	Ø		8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OSF181212-N-1	Olowalu Pier	DZ		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
			П		500 ml		
					500 ml		
					500 ml		
					500 ml		

Printed Name:	
James &	Strickland
	Printed Name:

Team Olowalu
Session 49
Samplers (Last Name, 1st Initial)

Samplers (Last Name, Noponen, R

Meters and Probes ID

HQ40d: - / 2100Q: - 3

pH: 5 DO: / Salinity: 3

					Dissolved	Oxygen			Turbidity (NTU)		Peopl	e (within 10	00 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН				water	beach	camp
Martin Hale OPM181213	N	0722	22.9	34.7	6,24	88.2	8.06	3.34	3,59	3.86	0	0	0
Camp Olowalu OCO181213	N	0741	22.8	34.7	637	90.0	8.10	tall	1.18	1.11	0	3	0
Ukumehame OUB181213	N	0756	22.3	34.9	6.86	96.1	8.13	7.44	1.26	6.99	0	O	0
Papalaua Beach OPB181213	7	0815	23,3	34.8	6.84	97.4	8.17	9.63	10.5	9.96	0	0	0
Papalaua Pali OPP181213	2	0826	23.9	34.4	6.45	92.4	8.11	5.36	5.30	5.19	0	0	0
				•							¥		

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

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0,04	6.27	56.2	605
Pre-sampling	.05	6.30	56.9	605
Post-sampling	0.05	6.34	56.8	605

	# of samples	Relinquished to	Contact
Sediment			
Nutrients	5	LHS	U. Strickland
Bacteria			

Signature (Team Lead):

Printed Name:

Jomes

Jan Shr

Strickland

Team	Olowalu	Samplers	NOPONEN, R
Session	49	(Last Name, 1st Initial)	CRIFFOUL, M
Date	12/13/2018		Office of the second of the se

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
OPM181213-N-1	Martin Hale	d		7:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO181213-N-1	Camp Olowalu	ď		7:41	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OUB181213-N-1	Ukumehame	H.		7:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPB181213-N-1	Papalaua Beach	6		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP181213-N-1	Papalaua Pali	d		8: 26	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments							
					500 ml		
					500 ml		
					500 ml		
•					500 ml		
	-				500 ml		

Signature (Team Lead):	Printed Name:	Y.
James Starl	James	Strickland
Jan		

Team	R2RN	Samplers	Hutchings, L
Session	49	(Last Name, 1st Initial)	Bankor B marine II C
Date	12/14/2018		corfield, c

Meters and Pr	obes ID	0	-3
HQ40d:		2100Q	: 3
pH: 5	DO:	1	Salinity: 3

					Dissolved Oxygen			Turbidity		People (within 100 ft)			
Location Name Sample ID	Streams Flowing (Y/N)	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	рН	(NTU)		water	beach	camp	
Honolua Bay RHL181214	У	\$.50 A	23.6	33.8	6.49	92.5	8.12	62.4	68,3	72.4	0	Ġ	0
Oneloa Bay RON181214		8:404	23.9	34.7	6.89	99.4	8.19	0.75	0.72	0.77	2	8	Ŏ
Kapalua Bay RFS181214		9:05	24.3	34.2	6.88	99.5	8.16	1,46	1.33	1.25	10	10	0
Ka'opala Bay RKO181214		9:35%	23.7	34.1	6.78	96.9	8.14	6.17	6,53	6.25	\Diamond	l	Ò
Kahana Village RKV181214	•	9:51	23.6	33.9	6.99	996	8.15	16.9	16.6	17.0 19.0	0	l	0
il.													1.

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

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.27	56.2	605
Pre-sampling	000	6.30	56.6	606
Post-sampling	0.06	6.30	56.7	602

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	0		C Maxwell
Nutrients	5	LLHS	C. Maxwell
Bacteria	0		Cmaxwell

Signature (Team Lead):	Printed Name:
Catherin Meswell	Catherine Maxwell

Team	R2RN	Samplers	Hutchings, L.
Session	49	(Last Name, 1st Initial)	Banker, B.
Date	12/14/2018	ist futual)	Maxwell, C. Garfield, E.

Gartiera, E.								
Sample ID Location Name		Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments	
Nutrients								
RHL181214-N-1	Honolua Bay	₽ P		7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		
RON181214-N-1	Oneloa Bay			8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		
RFS181214-N-1	Kapalua Bay			9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		
RKO181214-N-1	Ka'opala Bay			9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		
RKV181214-N-1	Kahana Village	D-		9:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		
ě			200 (200 - 2					
Sediments								
RHL181214-S-1	Honolua Bay				500 ml			
RON181214-S-1	Oneloa Bay				500 ml			
RFS181214-S-1	Kapalua Bay				500 ml			
RKO181214-S-1	Ka'opala Bay				500 ml			
RKV181214-S-1	Kahana Village				500 ml			

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