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



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

71 J. Strickland, T. Stark 05/11/20 10:00 am J. Strockland, T. Stork 5/15/20 11:15 am

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: tion Value		OST: ation Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	n/a	Std Val	NIST 27.4°C	NIST 24.9°C	NIST 29.6 _C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	J	1	n/a		27.4		29.3			ost: 23.5°C	
	1	2	n/a			26.7				5/11: pre: 23.2°C post: 23.5°C 7/ prc: 24.0 post: 20	4.4
Salinity			3 months	Std Val	<u>Tap water</u> 0.13	Salin Std 2 3 20 date 39.1 ppt	Tap water O.13	2/3/20 date 33._ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	1	5/4/20		0.15	33.2	0.15	33.7			
	1	2	5/4/20		0.15	33.)					
Dissolved Oxygen			1 year	Std Val	10	0%	10	00%	± 5 %		
	1	1	10/18/19		97.	10%	97.1%				
)	2	10/18/19		101.	9./.					
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	
	1	3	5/4/20		7.02	9.96	7.09	10.13-	pH std value	* Pied post for both ble	23
	1	4	5/11/20		7.03	9.99	7.05	10.03	by by	tred suitched from pulse to y thus week	
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	8/11/20		0.04	6.68	0.05	6.64			
		n/a									

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team	R2RS	Samplers	Strickland, J.	Meters and Probes ID					
Session	71	(Last Name, 1st Initial)	Stark, T.	HQ40d:	2100Q: (
Date	05/12/2020		400 \$17	pH: 3 DO:	Salinity: \				

	Streams	Time		Salinity	Dissolved	l Oxygen	pН		Turbidity	Peop	le (within 1	00 ft)
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal	(NTU)		water	beach	camp
Napili Bay RNS200512	N	8:10	25.0	34.4	6.68	97.8	8.24	1,00	1,511.78	0	0	0
Pohaku RPO200512	7	8:34	25.0	30.6	6.88	98.6	8.29	6.88	7.43 10.3 7.81	, 0	0	0
Kaanapali Sh RKS200512	N	9:00	25.1	34.7	6.74	99.1	8.26	1.53	1.47 1.60	0	1	0
Canoe Beach RCB200512	2	9:20	26.3	33.7	6.77		8.29	0.57	0.72 1.30	0	O	0
Wahikuli RWA200512	7	9:38	25.9	33.2	6.67	98.8		0.53	0.49 1.40	0	0	0

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

> FNS. drizzled while sampling RPD: suspended particles visible in turbidity bottle

RKS: fisherman on beach

RCB: lifegrands sugrey lodes way
more clear
RWA: Noticed high pH #15 - tried other
pH probe #4 & got 8.21

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.68	60.6	623
Pre-sampling	0.00	6.74	60.4	623
Post-sampling	0.05	6.67	60.7	622

•	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	5 NMS	T-Starte
Bacteria	170	-	-

CHAIN OF CUSTODY INFORMATION

Signature (Team Lead):	Printed Name:	
diasth	Tiana Stark	
0		

Team	R2RS	Samplers	Stricklands J.	
Session	71	(Last Name, 1st Initial)	Stark, T.	
Date	05/12/2020			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS200512-N-1	Napili Bay			8:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO200512-N-1	Pohaku			8:34	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS200512-N-1	Kaanapali Sh			9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB200512-N-1	Canoe Beach	4		9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA200512-N-1	Wahikuli			9:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments											
				500 ml							
				500 ml							
				500 ml							
				500 ml							

Signature (Team Lead):	Printed Name:	
Jaastel	Tiara Stark	
4.		

Team	Polanui	Samplers	8. Strickland		Meters and Probes ID						
Session	71	(Last Name, 1st Initial)	1 0		HQ40d:	1	2100Q:	1			
Date	05/13/2020		1. Stark	probe	рН: 4	DO:	1	Salinity:			

	Streams	Time		Salinity	Dissolved	Oxygen	pH	Turbidity			Peopl	e (within 1	00 ft)
Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal	(NTU)			water	beach	camp
505 Front St PFF200513	7	8:25	26.1	34.7	6.17	92.4	8.11	1.50	1.33	1.26	0	0	0
Lindsey Hale PLH200513	2	8:405	26.4	33.4	5.79	36.7	8.10	650	5.17	5.21	0	0	0
Lahaina Town PLT200513	Y	8,40	26.4	34.5	6.27	94.4	812	3.49	2.92	3.08	0	0	0
Olowalu Pier OSF200513	7	9:45	27,2	34.5	6,70	102.3	8.13	2.00	2.07	-1.94	0	0	0
										*			

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.68	60.6	623
Pre-sampling	0.05	6.75	60.5	622
Post-sampling	0.03	6.64	60.6	621
CHAIN OF CUSTO	ODY INFORMAT	ION		
Sediment	# of samples	Relinqu	ished to	Contact
Nutrients	4	NM	S IT.	Stark
Bacteria				
	•			
	Standard Pre-sampling Post-sampling CHAIN OF CUSTO Sediment Nutrients	CHAIN OF CUSTODY INFORMAT # of samples Sediment Nutrients Chair Chai	Blank	Blank

Team	Polanui	Samplers	J. Striddard	
Session	71	(Last Name, 1st Initial)		
Date	05/13/2020		T. Stark	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Autrients							
PFF200513-N-1	505 Front St	N/		8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH200513-N-1	Lindsey Hale			9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT200513-N-1	Lahaina Town			8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OSF200513-N-1	Olowalu Pier	d		9:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Printed Name:	
Tiara Stark	
	- C. I

Team	Olowalu	Samplers	J. Strickland	Meters and Probes ID	
Session	71	(Last Name, 1st Initial)		HQ40d:	2100Q: 1
Date	05/14/2020		T. Stark	pH: L DO:	Salinity:

	Streams	Time		Salinity	Dissolved	Oxygen	pН		Turbidity		Peop	le (within 1	00 ft)
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal		(NTU)		water	beach	camp
Martin Hale OPM200514	7	7:10	25.6	34.6	5.26	78%	8.02	1.59	1.62	1.62	0	0	0
Camp Olowalu OCO200514	N	7:30	26.8	34.4	6.18	93.62	8.09	298	3.27	331	0	0	0
Ukumehame OUB200514	N	7:48	26.5	34.6	6.40	96.4	8.12	14.2	14,0	13.2	0	0	0
Papalaua Beach OPB200514	\sim	80:8	26.8	35.1	6.52	99.1	8,14	6.65	5-63	6.05	0	0	0
Papulua Pali OPP200514	17	8:20	26.8	34.9	6.57	99.8	8.13	4.80	4.96	4.95	0	0	0

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

opm: calm, like minor lake - Did Do/ Sheming 2x (5.27 mg/L, 78.2%) ours: surfers-no one within 190 yords

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.03	6.68	60.6	623
Pre-sampling	0.04	6.68	60.6	623
Post-sampling	0.05	6.72	60.5	622

CHAIN OF CUSTODY INFORMATION # of samples Relinquished to Contact Sediment N/A N/A

Nutrients	+5	NMS	J. STRYCHLAND
Bacteria	0	N/A	N/A

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

Team	Olowalu	Samplers	T. Stark
Session	71	(Last Name, 1st Initial)	
Date	05/14/2020		J. Strickland

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
OPM200514-N-1	Martin Hale	₩		7:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO200514-N-1	Camp Olowalu	J		7:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OUB200514-N-1	Ukumehame	4		7:48	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPB200514-N-1	Papalaua Beach	Ŋ		8:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP200514-N-1	Papulua Pali	Ŋ		8:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	
7		500 ml	
		500 ml	
		500 ml	

Signature (Team Lead):	Printed Name:
In his	Jones Stricklond

Team	R2RN	Samplers	T (Tank	Meters and P	robes ID		
Session	71	(Last Name, 1st Initial)	7. STARK	HQ40d: \		2100Q:	1
Date	05/15/2020		J. STRICKLAND	рН: Ц	DO:	1	Salinity:

	Streams	Time		Salinity	Dissolved	l Oxygen	pН		Turbidity		Peop	le (within 1	00 ft)
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal		(NTU)		water	beach	camp
Honolua Bay RHL200515	N	8:15	25.3	33.5	6.23	91.4	8.13	213	1-99	1.63	0	0	0
Oneloa Bay RON200515	N	8:50	26. 2	34.9	6.63	99.7	8.15	0.33	0.35	0.50	0	١	0
Kapalua Bay RFS200515	N	9:15	269	33.5	6.44	97.4	8-13	1,84	329	2.31	0	2	0
Ka'opala Bay RKO200515	N	9:35	26.4	33.6	6.36	95,2	8.13	11.2	11,0	10,9	0	0	0
Kahana Village RKV200515	2	9:55	26.4	34.1	6.45	96.8	8.13	11.0	11.2	12.4	0	0	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).	TURBIDITY VERIFICATION						
RHL: catamaran w/noise ~ 30 ft from shore		Blank (must be <0.10)	Low	Med	High		
RAC. Car as recarr apriles 2	Standard	0.05	6.68	60.6	623		
Ron: fisherman rearby	Pre-sampling	0.04	6.67	60.3	622		
·	Post-sampling	0.05	6.64	60.4	621		
RKV: construction nearby	CHAIN OF CUST	ODY INFORMAT	ION				

	# of samples	Relinquished to	Contact
Sediment	-	-	2
Nutrients	5	NMS	J. STRICKLAND
Bacteria	-	. - 3	-
Signature (Team	Lead):	Printed Name: - Jaynes	Strickland

Team	R2RN	Samplers	T. STARK
Session	71	(Last Name, 1st Initial)	T (TD1, 1110010
Date	05/15/2020		J. STRICKIANO

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
RHL200515-N-1	Honolua Bay	⋈		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RON200515-N-1	Oneloa Bay	₩		8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS200515-N-1	Kapalua Bay	₽/		9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO200515-N-1	Ka'opala Bay	of .		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV200515-N-1	Kahana Village	V		9:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Printed Nan	ne:
- Jomes	STRICKLAND
	Printed Nan