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

Session No:	Verifiers:	Pre date:	Pre time:	Post: Date:	Post time:
40	Maxwell, C. Callnan, L.	6/4/18	9 30 am	6/8/18	11:00



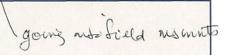
QA/QC Check	Inst #	Probe #	Last Cal Date			tE: ion Value		OST: tion Value	Acceptable Range	Comments/ Notes	QA?
Temperature			n/a	Std	NIST 26.3°c	NIST 26.48	NIST 25, 9	NIST	± 1°C of NIST	Within 1°C	
	2	Z	n/a		26.42		25.7				
	2 cm	3	n/a			26.4℃					
Salinity			3 months	Std	Tap water 0.04	Std 1/29/18 33.0	Tap water 0.04	Sta 1/29/18	± 3%, blank	33.95 – 36.05	
	2	2	4/23/18		0.04	32.8	0.03	32.8			
	Som	3	4/23/18		0.04	33.2		J.		News	
Dissolved Oxygen			1 year	Std	10	0%	10	00%	Post-check ± 5 % of pre-check	80 – 120 %	
	Z	2	8/1/17		98	3.9	100	.5 %		,	
	Z	1	4/2/18		103	.6					
рН			3 weeks	Std	7.00	10.00	7.00	10.00	± 3 % of cal solution (6-8)	6.79 – 7.21	
	2	3	6 4 18		7,00	10.01	6.97	9.96	PRETEMP <i>26.</i> 3 °C	-	
	2	4	6/4/18		7.00	10.01			PRETEMP 26.78		
Turbidity			3 months	Std	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10	Blank < 0.1 ± 3 % of secondary standard	Low <u>+</u> 0.18 NTU Med <u>+</u> 1.8 NTU High <u>+</u> 18 NTU	
	1	N/A	6/4/18		0.06	5.37	0.05	5.39		<u> </u>	
		N/A						165			

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?



Team	R2RS	Samplers	Morgan, T.
Session	40	(Last Name, 1st Initial)	Reed, D.
Date	6/5/18		Maxwell, C.

Meters and Prob	es ID		
HQ40d: Z		2100Q:	į
рН: З	DO: 2	7	Salinity: Z

Location		Temp	Salinity	Dissolved Oxygen		Turbidity W		Waves	Wind		People			Nutrious		
Name Sample ID	Time	(°C)	(ppt)	(mg/L)	(%)	pН		(NTU)		(0-3)	(0-6)	water	beach	camp	TSS	Nutrient duplicate
Napili Bay RNS180605	8:35	25.8	33,6	7.00	103.3	8.20	2.15	2.24	2.15	1	١	1	12	0		
Pohaku RPO180605	9:15	25.7	33.1	6.82	100.0	8.21	4.50	4.88	4.79	2	2	0	3	0		
Kaanapali Sh RKS180605	9:48	25.6	34.2	6.91	101.9	8.18	8/10	7.48	8,33	l	2	6	4	\$		
Airport Bch RAB180605	10:14	26.3	33,9	6.85	102.2	8.22	2.05	1.85	1.83	l	3	19	33	Ф		
Canoe Beach RCB180605	10:45	26.5	33.6	6.78	101.3	8,25	7.16	7.19	7.47	2	3	Φ	2	Φ		
Wahikuli RWA180605	11:06	26.3	33.7	6.72	100.2	8.24	3.05	3.21	3.35	2	3	3	12	\$		

Ocasional DR Waves: Off: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high last waves; 2ft: knee high; 3ft: waist high

COASTAL AND ENVIRONMENTAL	CONDITIONS	
Most recent tide time (falling or rising)	Low: 12:39 PM High: 7:31 AM	Lahaina Station Lahaina Station
Moon day (from new)		22
Cloud cover (0-8)	RNS-1	19
Rain conditions (last 24 hrs)	BNS-1012	
Wind direction (Trades/Kona)	Trades	
Streams flowing? (Y/N)	RIVS-10, RKS	Y RCB-no

TURBIDITY VE	RIFICATION	N C		
	Blank	Low	Med	High
Standard	.06	5.37	56.7	641
Pre-sampling	0.08	5.36	56.4	641
Post-sampling	0.04	5.36	56.le	640

	form if needed.			
Brown	water at	RKS-she	am flowing	ocean mple site
lead fish	churned u	RCB-54	rf advisor	y flogs w

CHAIN OF CUSTODY INFORMATION						
	# of samples	Relinquished to	Contact			
Sediment	Ф	LHS				
Nutrients	6	LHS	C. maxyell			
Bacteria	0					

Signature (Team Lead):	Printed Name:	
Cathein Waxwell	Cotherine Maxwell	

Team:	Samplers:	Last Name, 1st Initial	Date:
R2RS - 40	Morgan, T, Reed, 1	D, Maxwell, C	6/5/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
RNS180605-N-1	Napili Bay			8:35	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RPO180605-N-1	Pokahu	臣		9:15	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RKS180605-N-1	Kaanapali Sh	<u>O</u>		9:48	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RAB180605-N-1	Airport Beach	□		10:14	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RCB180605-N-1	Canoe Beach	T		10:45	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RWA180605-N-1	Wahikuli			11:06	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
					125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
Sediment - TSS							
RNS180605-S-1	Napili Bay				500		
RPO180605-S-1	Pokahu			 	500		
RKS180605-S-1	Kaanapali Sh				500		
RAB180605-S-1	Airport Beach				500		
RCB180605-S-1	Canoe Beach				500		
RWA180605-S-1	Wahikuli				500		

Signature (Team	Lead): Maxwell	Print name here:
	* 	<u> </u>

Team Polanui	Samplers	Meters and Probes II)	
Session 40	(Last Name, Bayly, R 1st Initial) Harris K	HQ40d: Q	2100Q:	
Date 6/6/18		pH: 3 DC): 2	Salinity: 2

		Temp	Salinity	Dissolved	Oxygen	Turbidity			Waves	Wind		People			Nutrient			
Location Name Sample ID	Time	(°C)	(ppt)	(mg/L)	(%)	рН			(NTU)		. 14 m		(0-6)	water	beach	camp	TSS	duplicate
505 Front St PFF180606	8:12	26.2	33.6	6.26	93.2	8.02	2.02	3.13	2.42	٥	۵	6	1)	ර		0		
Lindsey Hale PLH180606	8:45	26.0	34.0	6.08	90.4	8.06	2.45	2.78	2.8)	٥	0	3	3	σ	0	0		
Lahaina Town PLT180606	8:57	26.4	34.1	6.21	93.)	8.03	1.61	1.52	1.56	0	٥	14	a	0				
Launiupoko OLP180606	9:25	26.6	34.3	6.77	102.1	8.12	1.25	1.30	1, 35	1	1	12	3	٥				
Olowalu Pier OSF180606	9:56	26.4	34.2	7.21	108.1	8.08	2.14	2.20	2.04	1	2	8	2	0				

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high Wind: 0: calm: 3: gentle breeze; 6: strong breeze

Med 56.7

56.3

High

641

641

COASTAL AND ENVIRONMENTAL CONDITIONS						
Most recent tide time (falling or rising)	Low: 5:08 AM Lahaina Station High: 10:33 AM Lahaina Station					
Moon day (from new)	23					
Cloud cover (0-8)	4					
Rain conditions (last 24 hrs)	?					
Wind direction (Trades/Kona)	0					
Streams flowing? (Y/N)	Y					

0.05	5,46	56.8	640
TODY INFOR	MATION		
# of samp	les Relin	quished to	Contact
ø	L	HS De	
65	OR D.	Revot	D. Reed
	TODY INFOR	TODY INFORMATION	TODY INFORMATION

Low

5.37

5.32

		MENTS (trends, eq orm if needed.	uipment problems,	errors, co	ncerns)	
PFF	light	flow				

Signature (Team Lead):

Printed Name:

Dana H

TURBIDITY VERIFICATION

Standard

Pre-sampling

Bacteria

Blank

0.07

Team:	Notetaker:	Date:
Polanui - 40		6/6/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients	4. 战争 抗角的						有 有有效的 医皮肤结构
PFF180606-N-1	505 Front St	\$X		8:12	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
PLH180606-N-1	Lindsey Hale	¥		8:45	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
PLT180606-N-1	Lahaina Town	18X		8:57	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
OLP180606-N-1	Launiupoko	À		9:25	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
OSF180606-N-1	Olowalu SF	¥		9:54	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
					125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
					125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
Sediment							
PFF180606-S-1	505 Front St				500		
PLH180606-S-1	Lindsey Hale				500		
PLT180606-S-1	Lahaina Town				500		
OLP180606-S-1	Launiupoko				500		
OSF180606-S-1	Olowalu SF				500		
					500		

Signature (Team Load):	Printed Name:
Am of	2 Dana Read

Team Olowalu	Samplers NOPONEN, R	Meters and Prob	es ID	
Session 40	(Last Name, GRIFFONL, M 1st Initial) IFF D	HQ40d: 2	2100Q:	1
Date 6/7/18		pH: 3	DO: ス	Salinity: 2

Location Name		Temp	Salinity	Dissolve	l Oxygen			Turbidity		Waves	Wind		People			Nutrient
Sample ID	Time	(°C)	(ppt)	(mg/L)	(%)	pН		(NTU)		(0-3)	(0-6)	water	beach	camp	TSS	duplicate
Martin Hale OPM180607	7:12	24.5	34.1	5.38	78.2	8.02	0.90	0.99	0.92	0	1	φ	Ø	φ		
Camp Olowalu OCO180607	7:46	25.3	34.1	6.33	93.1	8.08	2.73	2.90	3.44	0	l	6	Ø	Ø		
Mile Marker 14 OMM180607	7:57	25.3	34.1	5.70	83.9	8.03	1.99	2.11	2.26	0	0	Ø	2	5		
Ukumehame OUB180607	8:13	25.0	34.4	6.61	96.9	B.09	8.00	7.86	8 .33	0	3	18 1	Ø	Ø		
Papalaua Beach OPB180607	8:26	24.9	34.4	4.89	101.0	8.13	2.74	2.99	3.18	3	ð	Ø	Ø	Ø		
Papalaua Pali OPP180607	8:40	25.2	34.3	6.84	100.6	8.13	1.68	1.86	1.83	2	١	Ø	雌牛	4		

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high Wind: 0: calm; 3: gentle breeze; 6: strong breeze

COASTAL AND ENVIRONMENTAL CONDITIONS							
Most recent tide time (falling or rising)	Low: 5:34 AM Lahaina Station High: 12:12 PM Lahaina Station						
Moon day (from new)	24						
Cloud cover (0-8)	.3						
Rain conditions (last 24 hrs)	NONE						
Wind direction (Trades/Kona)	TRADES						
Streams flowing? (Y/N)	N/A						

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

Peter Martin engaged us is conversation about WQ. Wanted to know what WQ looked like other places (wahikuli) where there were ceas pools.

TURBIDITY VERIFICATION								
	Blank	Low	Med	High				
Standard	.04	5.37	56.7	641				
Pre-sampling	.06	5.39	56.5	643				
Post-sampling	0.04	5.40	56,6	641				

CHAIN OF CUSTODY INFORMATION					
	# of samples	Relinquished to	Contact		
Sediment	Ф				
Nutrients	6	LHS	D. Reed		
Bacteria	Ø				

Signature (Team Lead):	Printed Name:
Dam Bow	Dana Reed

Team:	Notetaker:	Date:
Olowalu - 40	REEDD.	6/7/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients					11.2000		
OPM180607-N-1	Martin Hale	M		7:12	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
OCO180607-N-1	Camp Olowalu	Þ		7:46	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
OMM180607-N-1	Mile Marker 14	Æ		7:57	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
OUB180607-N-1	Ukumehame	À		8:13	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
OPB180607-N-1	Papalaua Beach)A		8:26	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
OPP180607-N-1	Papalaua Pali	A		8:40	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
					125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
Sediment	13 年 15 月 16 日 16 日	20 to 2000 2000 to 300					
OPM180607-S-1	Martin Hale				500		
OCO180607-S-1	Camp Olowalu				500		
OMM180607-S-1	Mile Marker 14				500		
OUB180607-S-1	Ukumehame				500		
OPB180607-S-1	Papalaua Beach				500		
OPP180607-S-1	Papalaua Pali				500		

Signature (Team Lead):	Printed Name:
Warn Res	Dana Reed

Hui Q Ka Wai Olo - Sample Collection Datasheet

Team R2RN	Samplers Bankon, B.	Meters and P	Meters and Probes ID				
Session 40	(Last Name, Maxwell, C. 1st Initial) Heheman, C.	HQ40d: 2	2100Q	: 1			
Date 6/8/18	Henemann, C.	рн: З	DO: 2	Salinity: Z			

Location	(DA	Temp	Salinity	Dissolved	Oxygen			Turbidity	76年	Waves	Wind	Fr Selection	People		DE CO	
Name Sample ID	Time	(°C)	(ppt)	(mg/L)	(%)	pН		(NTU)		(0-3)	(0-6)	water	beach	camp	TSS	Nutrient duplicate
Honolua Bay RHL180608	7:51	25.1	31.8	6.37	92%	8.07	15.5	14.8	15.Z	0	1	0	1	O		
Fleming Nrth RFN180608	8:30	25.6	33.8	08.9	6.001	8.10	6.07	6.69	6.11	1	1	Z	4	0		
Oneloa Bay RON180608	9:00	35-F	34.3	6.81	100.7	11.8	0.37	0,36	0.35	2	3	0	0	0		
Kapalua Bay RFS180608	9:35	26.1	32.5	6.78	99.9	8.03	2.05	2,01	1.63	0	1	(8	26	0		
Ka'opala By RKO180608	9:56	26.0	33.1	6.61	97.5	8.04	16.1	17.7	18.5	<1	0	0	3	0		
Kahana Vill RKV180608	10:18	26.3	33.7	6.67	99.2	8.08	15.0	17.2	18.6	0	1	l	3	O		

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high Wind: 0: calm; 3: gentle breeze; 6: strong breeze

Most recent tide time (falling or rising)	Low: 5:59 AM Lahaina Station High: 1:02 PM Lahaina Station
Moon day (from new)	25
Cloud cover (0-8)	RHL-1 RFN-0 RON-4 RKO-5
Rain conditions (last 24 hrs)	No
Wind direction (Trades/Kona)	Trades
Streams flowing? (Y/N)	BHL-405 RFN-NO PEC-NO

the state of the s	f the form if needed.		
RHL-Sprinkl	6		
20N-1 turt	e on beach/water . 5	DRINKles	
DEG - 2107	e on beach/water. Surbity Re-check. Dott g on the beach e, slow, settling skids	sampled day be	fore
10100	1 heach	Sorhkling	
2 KO - V	g on the out	1 1 1 1 1 1	2 .10.1
RKV - lan	e, slow settling sdids	17.9 4th Turbit	Ke-check

TURBIDITY VERIFICATION							
	Blank	Low	Med	High			
Standard	0.04	5.37	56.7	641			
Pre-sampling	0.05	5.35	56.5	641			
Post-sampling	0.05	5.39	56.7	641			

	# of samples	Relinquished to	Contact
Sediment	Ф	LHS	
Nutrients	6	LHS	C. Maxime
Bacteria	Ø		

Signature (Team Lead):	Printed Name:	
Catherin Maxwel	Cothering Maxwell	

Team:	Samplers:	Last Name, 1st Initial	Date:
R2RN - 40	Banker, B.	Maxwell, C.	6/8/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
RHL180608-N-1	Honolua Bay	ÞX		7:51	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RFN180608-N-1	Fleming North	M		8:30	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RON180608-N-1	Oneloa Bay	A		9:00	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RFS180608-N-1	Kapalua Bay	Ø		9:35	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RKO180608-N-1	Ka'opala Bay	Æ		9:56	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
RKV180608-N-1	Kahana Village	Þ		10:18	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	
					125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
Sediment - TSS							
RHL180608-S-1	Honolua Bay				500		
RFN180608-S-1	Fleming North				500		
RON180608-S-1	Oneloa Bay				500		
RFS180608-S-1	Kapalua Bay				500		
RKO180608-S-1	Ka'opala Bay				500		
RKV180608-S-1	Kahana Village				500		

Signature (Team Lead):	Print name here:			
Carluin Maxwell	Cotherne Maxwell			