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

Teams:	Technician:	Session No:	Pre date:	Pre time:		
	Dana Reed	19	3/24/17	11:16 AM	3/30/17	10:56

QA/QC Check	Inst#	Probe#	Last Cal Date	The state of the s	ification indard	PRI Verific Val	cation	POS Verific Val	cation	Acceptable Range (Check range)	Comments/ Notes
Temperature						24,	7 C	25	5,2	± 1°C of NIST	Within 1°C
	2	5-32	N/A			25	.0 C	25	5.5		
	2	5-2	NA								
Salinity				0ppt	35ppt	0.04	33,4	.04	33.4	± 3%, blank	33.95 - 36.05
	2	2	3/6/17	0.04	33, 4	0.04	332	.04	33.2		before PRE / 26.4°C after
Dissolved Oxygen		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			100%	The second secon	0%	Ι ε	0%	Post-check ± 5 % of pre-check (0- 100%)	80 – 120 %
	2	2	7/25/16	1	100	98	.2%	99	9.7		
рН	2	3	3/24/17	7	10	7.00	10.01	7,00	100	± 3 % of calibration solution (6-8)	6.79 – 7.21
	2	3	3/24/17			7.00	10.02	7.01	10.00		Temp 24.7 / Temp 26.0° A 4.01 is also 4.0 after weeks sample
								-2			4.01 is also 4.0 after
Notes:				1							weeks sar

Notes:

session 19

IN-SITU READINGS:

Team:	Samplers:	Instrument#	Probe #s	Date:	Start time:	Finish time:
R2R	Marie Terry	40d: 2	S: 2 pH: 3	3/28/17	79:31	9:31
19	\$ TI	2100q 1	DO: 2		•	,

		T (C)	Sal	DO	DO Saturation	рН	-	urbidity¹ (N	PPE)	Cor	nments	
Location Name	Time	Temp (C)	(ppt)	(mg/L)	(%)	"		minimity (Waves	Swimmers	Wind
Napili Bay RNA RNS170328	7:41	24.5	34.4	6.75	97.6	8.11	1.00	0,80	0.72	yes some not bad.	2 SUPE	briezu
Pohaku RPO RPO170328	8:06	24.4 24.4 24.3	33.4	6.67	95.1	8:13 8:13	3,37	3.02	3.59	Some Waves Smaller Surfer Stopp	7 Surfer	
Kaanapali Shores RKS RKS170328	8:28	24.7 24.6 24.6	34.4	6.67	96.3	8.11	5.70	4.86	5.15	Some waves	WIMIT	Coulin
Airport Beach RAB RAB170328	8:43	25.4 25.4 25.3	34.0	6.71	98.4	8.18	1.59	1.98	2,07	Very Calm occasional	beach walkers several familie	Calm
Canoe Beach RCB RCB170328	9:02		33.3	6.76	99.1	8.18	1.81	2.46	2.75	brown-calm sets of wave	beach walkers	Cahm
Wahikuli RWA RWA170328	9:21	25.4	329	6.77	98.8	8019	0,58	0,62	0.70	calm-fiat	1 Couple.	es Calmi
Turbidity Verification Pre:	Blank:	5.64	Low: 0-10	57.9 5.60	Med: 10-100	678 57.	5 10	High: 00-1000	628	Co	mment	V
Post:	Blank:	0.04	0-10	5.60		58.	0 10	00-1000	627			

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Tide height 7:00 a.m. (Lahiana station) 0.8 feet, falling

Cloud Cover (1-8): 3 RNA -> DATRWA

Moon: 1/2

Wind conditions (general): breezy 2BIT

Rain Conditions (general): Wot valning

* Replicate nutrient sample: Use 2 syringes and take 2 Samples. Filter both into N-1 bottle. Mix sample and Hui OF pour half into N-2 bottle.

Hui O Ka Wai Ola, 12/12/2016

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
R2R	TH TERRY	3/28/17	7:3/	9:31

Sample No	Location Name	Time	Vol (mL)	Nutrient Bottle?	SSC ?	Quality control notes	Grab sample?
RNS170328-N-1	Napili	7.46	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Ø
RNS170328-S-1	Napili		500		X		
RPO170328-N-1	Pokahu	V:06	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Ū∕
RPO170328-S-1	Pokahu		500		X		
RKS170328-N-1	Kaanapali Sh	8:38	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	₽⁄
RKS170328-S-1	Kaanapali Sh		500		X		
RAB170328-N-1	Airport Beach	8:43	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	th.
RAB170328-S-1	Airport Beach		500		X		
RCB170328-N-1	Canoe Beach	9:02	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	CY C
RCB170328-N-2	Canoe Beach	9.07	125	Х		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Ĭď
RCB170328-S-1	Canoe Beach		500		X		
RWA170328-N-1	Wahikuli	9:21	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	0
RWA170328-S-1	Wahikuli		500		X		

Session 19

John Maxwell
Kit Harris ('Cici Hemann')
Cothy Maxwell Observing

IN-SITU READINGS:

Team:	Samplers:	Instrument#	Probe #s	Date:	Start time:	Finish time:
Polanui		40d: 2	S: 2 pH: 3	3/29/17	8:21 am	
19		2100q 1	DO: 2		10:50 am	

		T (6)	Sal	DO	DO				APPELIA	Cor	nments	
Location Name	Time	Temp (C)	(ppt)	(mg/L)	Saturation (%)	pН	Turbidity ¹ (NTU)		Waves	Swimmers	Wind	
505 Front St PFF PFF170329	8:21	25.4	33.1	6.23	90.8	8.07	11.5	12.4	10.1	slight Chap	none	Ø
Lindsey Hale PLH PLH170329	8:50	26.0	33.4	5.72	84.5	8-06	6.46	5.86	8.74 7.69	Dight Chap	hone	· Si knots
Lahaina Town PLT PLT170329	9:10	26.3	33.1	5.93	87.9	8.07	7.17	7.95	7.47	flat just a	Stufer coming Stunding Sediment	.25 Knob
Puamana PPU PPU170329	9:36	26.2	33.9	6.78	100.8	8:18	2.69	2.51	2.31	foot ware	Jedima	Knot
Launiupoko OLP OLP170329	10:10	27,3	34.3	6.70	101.8	8.16	4.08	4.08	3.81	0.5 feet	Asukis Mare	125 Knoto
Olowalu Pier OSF OSF170329	10:36	26.8	34.0	6A5	104.5	8.13	1.93	2,20	2,40	flat	hone	v 25 Kn do
Turbidity Verification Pre:	Blank:	·04	Low: 0-10	5.69	8 Med: 10-100	58.5	100000000000000000000000000000000000000	ligh: 0-1000	6Z9	Co	mment	
Post:	Blank:	.07	0-10	5.6	5 10-100	58.3	, 100	0-1000	626			

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Tide height 7:00 a.m. (Lahiana station) 1.0 feet falling

Moon: 2/3

Cloud Cover (1-8): none at 505 shops, none at PLH, hone at PLT, none at PPU, none at OLP, Rain Conditions (general):

Wind conditions (general): very little wind

No rain

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
Polanui	Jonnarwed	3/29/17	8:21 am	10:50 am

Confermi Maxwell

Ket Harris Othy Maxwell

Sample No	Location Name	Time	Vol (mL)	Nutrient Bottle?	SSC ?	Quality control notes	Grab sample?
PFF170329-N-1	505 Front St	8:21	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	×
PFF170329-S-1	505 Front St	8:21	500		X		×
PLH170329-N-1	Lindsey Hale	8:50	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	×
PLH170329-S-1	Lindsey Hale	8:50	500		X		Ø
PLT170329-N-1	Lahaina Town	9:10	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	×
PLT170329-S-1	Lahaina Town	9:10	500		X		×
PPU170329-N-1	Puamana	9:36	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	M
PPU170329-S-1	Puamana	9:36	500		X		
OLP170329-N-1	Launiupoko	10:10	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	\$
OLP170329-S-1	Launiupoko	10:10	500		X		Ø
OSF170329-N-1	Olowalu SF	10:36	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Ø
OSF170329-S-1	Olowalu SF	10:36	500		X		

IN-SITU READINGS:

Team:	Sam	plers:	Instrument #	Probe #s	Date:	Start time:	Finish time:
Olowalu	GEONGE	NELL	40d: 2	S: 2 pH: 3	3/30/17	0703	0950
19	DANA		2100q 1	DO: 2			

			Sal	ро	DO					Co	mments	
Location Name	Time	Temp (C)	(ppt)	(mg/L)	Saturation (%)	рH	Turbidity ¹ (NTU)			Waves	Swimmers	Wind
Martin Hale OPM OPM170330	0120	25.0	34.0	6.00	87.7	8.02	5.45	5,59	5.17	_	_	None
Camp Olowalu OCO OCO170330	0742	26.0	34.5	6,41	95.3	8.08	1.42	1.59	8.21	mod	6 Kayaks dozen Sw	5 K
Mile Marker 14 OMM OMM170330	0805	25.9	34.2	6.21	92.9	8.03	6.32	6.45	6.26	(1	campers above + balow	7 K
Ukumehame OUB OUB170330	0830	25.7	34.3	6.73	99.6	8.11	7.64	8.12	7.79	2' SUNF	26.06301	CALM
Papalaua Beach OPB OPB170330	0900	26.2	34.3	6.92	103.2	8,14	5.55	6.05	6.13	1-2'5016	MONE	CALM
Papalaua Pali OPP OPP170330	0920	26.5	34.4	6.79	161.9	82/3	4.01	4.01	3.86	1-2' SURF	ISUARA 202 BENCH	CALM
Turbidity Verification Pre:	Blank:	0.06	Low: 0-10	5.61	Med: 10-100	51.9	10	High: 0-1000	628	C	omment	
Post:	Blank:	0.05	0-10	5.6	10-100	58.2	_ 10	0-1000	626			

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Tide height 7:00 a.m. (Lahiana station) 1.1 feet falling

Cloud Cover (1-8):

Rain Conditions (general):

Moon: 3/4

Wind conditions (general): CALM

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
Olowalu		3/30/17	0703	

Sample No	Location Name	Time	Vol (mL)	Nutrient Bottle?	SSC ?	Quality control notes	Grab sample?
OPM170330-N-1	Martin Hale	0720	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Ŕ
OPM170330-S-1	Martin Hale		500		X		
OCO170330-N-1	Camp Olowalu	0742	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	×
OCO170330-S-1	Camp Olowalu		500		X		
OMM170330-N-1	Mile Marker 14	0805	125	Х		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	×
OMM170330-S-1	Mile Marker 14		500		X		
OUB170330-N-1	Ukumehame	0870	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	凤
OUB170330-S-1	Ukumehame		500		X	45 2.00	X
OPB170330-N-1	Papalaua Beach	0906	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	ø
OPB170330-S-1	Papalaua Beach		500		X		
OPP170330-N-1	Papalaua Pali	0920	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	B
OPP170330-S-1	Papalaua Pali		500		X		
		<u> </u>					

By & Mts #