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

Teams:	Technician:	Session No:	Pre date:	Pre time:	Post: Date:	Post time:
	Dana Reed	20	4/17/17	1:25 PM	4/20/17	10:15

			_	ndard		cation lue		cation lue	Acceptable Range (Check range)	Comments/ Notes
-					24	1.8	25	7.4	± 1°C of NIST	Within 1°C
2	5-2				25	5.1	25	5.7		
			0ppt	35ppt	0,04	33,4	.04	33.4	± 3%, blank	33.95 – 36.05
2	2	3/6/17	0.4	33.4	,04	33,4	.64	<i>3</i> 3,3		Temp 26.1C (33.4) Temp 25.7
			1	00%	/00	%	10	6%	Post-check ± 5 % of pre-check (0-100%)	80 – 120 %
2	2	7/25/16			97	1.6%	99	. 27.		
			7	10	7.00	10.01	7.00	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21
2	3	4/17/17	7.00	10.01	7.00	10.01	7.01	10,00		Before Cal pt 7.00 read 6.99/ Post temp 26.30
2		. 2	2 7/25/16	2 3/6/17 04	2 2 3/6/17 24 33.4	2 2 3/6/17 0.4 33.4 ,04	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 2 3/6/17 214 33.4 .04 33.4 .64 100% 100% 10 2 7/25/16 97.6% 99	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 2 3 6 17 24 33.4 .04 33.4 .64 33.3 100% 100% 106% 106% of pre-check (0- 100%) 2 7 25 16 97.6% 99.2% 7 10 7.00 10.01 7.00 10.01 \$\pmathrm{\pmathrm

Notes:

* Observers

IN-SITU READINGS:

Team:	Samplers:	Instrument#	Probe #s	Date:	Start time:	Finish time:
R2R	Forenda, Narie	40d: 2	S: 2 pH: 3	4/18/17	7:30	9=37
20	Temi, Ty Bruce +	2100q 1	DO: 2			

	* (Lordo, 1	Alana					1					
Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Saturation	рН	Tu	ırbidity ¹ (NTU)		nments	
					(%)					Waves	Swimmers	Wind
Napili Bay RNA RNS170418	7:48	24.8	34.0	6.84	99.5	8.15	.097	1.05	0.98	sets	8	alm
Pohaku RPO RPO170418	8:13	29,1	31.8	6.59	94.6	8.17	3,65	307	2-99	Calm, clear	no one	culm 382
Kaanapali Shores RKS RKS170418	8:34	24.0 24.1 24.1	24.4	7.26	98.6	8.22	2-48	2.72	2.58	calm, small shore break	i	calm
Airport Beach RAB RAB170418	8:53	26.0	33.5	6.53	969	8.16	0,95	0,90	1.02	gorgeous	12-5Wir Strorkele SUPers	1/culm
Canoe Beach RCB RCB170418	9:10	26.1	33.1	6.60	97-7	9.16	1,13	0.86	1.08	very calm with syn. wave sits	Luts-10 Snovkilen 4 Supie	Carlo
Wahikuli RWA RWA170418	9:26	25.9	33.0	6.57	96.8	8.18	0.86	1.00	0.91	very calm sets of waves	8	ક્તા
Turbidity Verification Pre:	Blank:	0.06	Low: 0-10	5.75	Med: 10-100	58.0		ligh: 0-1000	628.	Со	mment	
Post:	Blank:	0.06	0-10	5.60	10-100	58.3	3 100	0-1000	627			

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Tide height 7:00 a.m. (Lahiana station) 0.7 feet, falling

Cloud Cover (1-8):

Moon: 23

Wind conditions (general): Very Calm

Rain Conditions (general): Beautiful dry, clear, Surny

* Observers

WATER QUALITY SAMPLING:

Team:	Sam	plers:		Date:	Star	t time:	Finish time:
R2R	Brenda.	Marie	Iem	4/18/17	7:	36	9:37

Atana "

Sample No	Location Name	Time	Vol (mL)	Nutrient Bottle?	SSC ?	Quality control notes	Grab sample?
RNS170418-N-1	Napili	7:48	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
RNS170418-S-1	Napili		500		X		
RPO170418-N-1	Pokahu	812	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	2
RPO170418-S-1	Pokahu		500		X		
RKS170418-N-1	Kaanapali Sh	8:34	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Œ.
RKS170418-S-1	Kaanapali Sh		500		X		
RAB170418-N-1	Airport Beach	8:53	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	0
RAB170418-S-1	Airport Beach		500		X		
RCB170418-N-1	Canoe Beach	9:10	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	D/
RCB170418-S-1	Canoe Beach		500		X		
RWA170418-N-1	Wahikuli	9:36	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	B
RWA170418-S-1	Wahikuli		500		X		

Slavar

Cathy & Jim Kit

Annalea Mitch (observing) & Bruce (photographer)

IN-SIT	U	REA	D	IN	GS:

Team:	Samplers:	Instrument#	Probe #s	Date:	Start time:	Finish time:
Polanui	Jim	40d: 2	S: 2 pH: 3	4/19/17	8:08am	10:40 out
20		2100q 1	DO: 2			

Location Name	Time	Temp (C)	Sal	DO	DO Saturation	рН	1 12 1 Table	urbidity ¹	(NTU)	Сог	nments	
			(ppt)	(mg/L)	(%)					Waves	Swimmers	Wind
505 Front St PFF PFF170419	8:18am	25.8	32.7	6.44	94.7	8.12	2.07	2.19	2.29	ostream running(4) Water 100Ks muddy	X2 kayaks	<5 Knots
Lindsey Hale PLH PLH170419	8:45am	25.9	33.7	6.43	95.3	8.11	9.30	9.30	8.65	loo% cloud cover (can see blue sky clouds more dense than last site), no waves	no. Lwimners	25 knots
Lahaina Town PLT PLT170419	9 1:06am	26.2	33.0	6.24	92.6	8-10	11.5	12.1	10.5	calm	GXSUP likely T turbidity	\$ Knots
Puamana PPU PPU170419	9: 30am	26.1	34.1	6.63	99.0	8.18 WW3	1.63	1.77	1.51	1'surf clouds clearing	hone	KS Knoty H
Launiupoko OLP OLP170419	10:00 am	26.7	34.4	6.71	101.8	8.18	2.59	2.57	2.44	clouds clearing (80%)	surfers far out	(5 Knots ater during
Olowalu Pier OSF OSF170419	10:25am	27.0	34.3	6.97	105.7	8.15	1.55	1.42	1.53	No clouds, calm water,	none	Samplinda (1 knot wir
Turbidity Verification Pre:	Blank:	0.08	Low: 0-10	B) 2. 4 1 5.	74 Med: 10-100	58.2		High: 00-1000	628		mment	1.00
Post:	Blank:	0.05	0-10	5,8	2 10-100	58.2	/ 10	00-1000	626			

Tide height 7:00 a.m. (Lahiana station) 0.6 feet falling

Moon: 24

Cloud Cover (1-8): 1-can see blue sky (thinkerbada)
(cleared to Ø by the time arrived at Olowalu)
Rain Conditions (general):

Wind conditions (general): [scale of 1-8]: 2

- Replicate sample: Use 2 orpinges & 2 filters. Collect water in both and filter into N-1 bettle (both supriyes). Then mix Hui O Ka Wai Ola, 12/12/2016 sample and pour half into N-2 bottle.

Team:	Samplers:	Date:	Start time:	Finish time
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Sample No	Location Name	Time	Vol (mL)	Nutrient Bottle?	SSC ?	Quality control notes	Grab sample?
PFF170419-N-1	505 Front St		125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Ø
PFF170419-S-1	505 Front St		500		X		
PLH170419-N-1	Lindsey Hale		125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	124
PLH170419-S-1	Lindsey Hale		500		X		×
PLT170419-N-1	Lahaina Town		125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Ø
PLT170419-S-1	Lahaina Town		500		X		[3]
PPU170419-N-1	Puamana		125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	図
PPU170419-N-2	Puamana		125	Х		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	×
PPU170419-S-1	Puamana		500		X		
OLP170419-N-1	Launiupoko		125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	J Z\$
OLP170419-S-1	Launiupoko		500		X		
OSF170419-N-1	Olowalu SF		125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	83
OSF170419-S-1	Olowalu SF		500		X		

IN-SITU READINGS:

Team:	Samplers:	/ Instrument#	Probe #s	Date:	Start time:	Finish time:
Olowalu	michelle Contto	¹ 40d: 2	S: 2 pH: 3	4/20/17	7:10	245
20	JOHN VODERIK	2100q 1	DO: 2			0-10

	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Saturation (%)		Turbidity ¹ (NTU)		Comments			
Location Name						pH			(10)	Waves	Swimmers	Wind
Martin Hale OPM OPM170420	1:15	25.7	33.9	5.92	86.1	8,04	1.54	1.63	1.66	Smoll	ø	Light
Camp Olowalu OCO OCO170420	7:30	27.1	34.3	6.14	93.4	8.09	13.2	13.3	13.5	FLAT	D 1-KAYAK	"
Mile Marker 14 OMM OMM170420	7:50	26.3	33.9	4.19	92.5	8.02	12.8	12,4	12.6	Sunall,	Ø	()
Ukumehame OUB OUB170420	8:05	25.9	34,3	6.54	97.3	8.10	6.81	7.06	7.13	2'	P	11
Papalaua Beach OPB OPB170420	8:20	26,0	34,2	6.60	98.1	8.09	3.67	4.07	4.50	ヹ′	Ø	'(
Papalaua Pali OPP OPP170420	8:40	26.7	34.6	6.50	98.2	8.11	5.84	4.92	5.16	2'	TENT	n
Turbidity Verification Pre:	Blank:	,07	Low: 0-10	5,69	Med: 10-100	58.2	- H	ligh: 0-1000	627	Comment		
Post:	Blank:	.06	0-10	5.71	10-100	58.7	2 100)-1000	627			

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Tide height 7:00 a.m. (Lahiana station) 0.5 feet falling

Cloud Cover (1-8): 5

Rain Conditions (general): HARD RAIN duling the night

Moon: 25

Wind conditions (general): Light - ON shope

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
Olowalu	Michelle Griffout	4/20/17	7:10	8:40

John Voorts

Sample No	Location Name	Time	Vol (mL)	Nutrient Bottle?	SSC	Quality control notes	Grab sample?	
OPM170420-N-1 Martin Hale		1:15	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	×	
OPM170420-S-1	Martin Hale		500		X			
OCO170420-N-1 Camp Olowalu		7:30	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Ø	
OCO170420-S-1	Camp Olowalu		500		X		X	
OMM170420-N-1	170420-N-1 Mile Marker 14		125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	A	
OMM170420-S-1	Mile Marker 14		500		X		A	
OUB170420-N-1	Ukumehame	805	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	9	
OUB170420-S-1	Ukumehame		500		X			
OPB170420-N-1 Papalaua Beach		8:20	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	Ø	
OPB170420-S-1	Papalaua Beach		500		X			
OPP170420-N-1	Papalaua Pali	8.40	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<u>D</u>	
OPP170420-S-1	Papalaua Pali		500		X			

Danu der Michelle Shiffoul

Hui O Ka Wai Ola, 12/12/2016