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

Session No:	Verifiers:	Pre date:	Pre time:	Post: Date:	Post time:
22	Dana Reed Cathy N	naxuel 5/26/17	10:15 am	6/1/17	10:00 a.m.

QA/QC Check	Inst#	Probe #	Last Cal Date		PR Verificat	tE: ion Value		OST: ition Value	Acceptable Range (Check range)	Comments/ Notes	QA?
Temperature			n/a	Std	25	5.7	26	, ,	± 1°C of NIST	Within 1°C	
	2	5-2	n/a		25	,9	26	,.3			
		3.	n/a						Company of the Compan		
Salinity				Std	0.04	33.3	0.04	33.3	± 3%, blank	33.95 – 36.05	
	2	2	5/8/17		0.03	33.5	0.04	33.5			And the second
Dissolved Oxygen	11			Std	10	0%	100	0%	Post-check ± 5 % of pre-check (0- 100%)	80 – 120 %	
	2	1	3/28/17		10	0.7	10:	2.5%			
рН				Std	7.0	10-01	7.0	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	2	3	5/26/17		7.00	(0.00	7.01	[0.00			
	2						L				

Notas: Are are-predanestosyithin pereweek?

* Delay times are ok?

Calibrated only I probe of each type this week. Verified

^{*} Other equipment issues?

Team/ Session:	Samplers (Initials):	Instrument #	Probe #s	pН	DO	Salinity	Date:	1 st Sample Time	End Sample Time:
R2R	Lead. TYF. TERRYS.	40d: 2	40d:	3		2	5/30/17	7:40	9.73.5
22	Notetaker.	2100q: /							1

Location Name	Time	Temp	Sal	DO	DO Sat	pН	т.,,	rbidity (N	TIN.	Waves	Wind		People		Ticc o
		(C)	(ppt)	(mg/L)	(%)	pn	100	bluity (iv	10)	waves	Willia	Swim	Beach	Camp	TSS?
Napili Bay RNS RNS170530	7:40	25.7V 25.7 25.6	33.9	6.92	1022	8.09	1.12	0.93	1.17	U	l	, i	2	_	
Pohaku RPO RPO170530	8:06	26.17	33.1	6-82	100.9	8.13	4.13	4.08	438	C	٥	9	Z		
Kaanapali Sh RKS RKS170530	8:23	26.00	34.5	6.83	101.8	8.09	284	2.7%	2.78	0	(308	le	_	
Airport Beach RAB RAB170530	8:47	26.51	34.3	6.83	102-3	8.16	1.26	1-29	1.19	0		10	10		
Canoe Beach RCB RCB170530	9:04	26.5	33.9	6.87	1029	8.16	5.46	4.76	4.98	Ö	(0	0)	
Wahikuli RWA RWA170530	9:20	26.4	33.8	6.78	101.4	816	2.77	3.33	3,21	0	1	Ø	0	j	

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent low tide time/height (Lahaina station):	High 6:31 a.m. falling; Low 12;16 p.m.				
Moon Day (from new)	5/6				
Cloud Cover (1-8):	0-1				
Rain Conditions (last 24 hours)	0				
Wind conditions (Trades? Kona?):	KONF. D				
Streams flowing? (Y/N)	W				

QA Notes and Comments (Trends? Equip problems? Errors? Concerns?)

Bruce Banker observing

Waves: 0 ft = no waves; 1 ft = small waves; 2 ft = knee high; 3 ft = waist high Wind: 0 = calm, 1 = light air, 2 = light breeze, 3 = gentle breeze, 4 = moderate breeze People: Swimmers/Kayakers/Surfers, On beach, Campers: 0, 1-5, 5-10, 10-20, 20-40

Turbidity Verification

	Blank	Low	Med	High
Standard	0.04	5.40	56.0	608
Pre	0.05	5,34	55.8	608
Post	9.04	5.31	560	607

	Total # of samples	Relinquished To::	Contact
Sediment		LHS	Dana Reed
Nutrient		LHS	Dana Reed
Bacteria			

Signature (Lead): Juny a Shoede

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
R2R - 22	To Term	5/30/17	1:30 am	9:30 am

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
RNS170530-N-1	Napili Bay	Ø		07:45	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
RPO170530-N-1	Pokahu			08:06	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
RKS170530-N-1	Kaanapali Sh	Q.		08:26	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
RAB170530-N-1	Airport Beach			08:50	, 125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
RCB170530-N-1	Canoe Beach	Ø		09:08	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
RWA170530-N-1	Wahikuli	g		09:26	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
RWA170530-N-2	Wahikuli	₽.		09:26	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
Sediment							
RNS170539-S-1	Napili Bay				500		
RPO170530-S-1	Pokahu				500		
RKS170530-S-1	Kaanapali Sh				500		
RAB170530-S-1	Airport Beach				500		
RCB170530-S-1	Canoe Beach				500		
RWA170530-S-1	Wahikuli				800		

REPERENTE SAMPLE PROCEDURE NEEDS TO BE INCUDED

Jung a Stroede

Team/ Session:	Samplers (Initials):	Instrument #	Probe #s	pН	DO	Salinity	Date:	1 st Sample Time	End Sample Time:
Polanui	Lead: Cathu	40d: Z	40d:	3		Z	5/31/17	8:15	10:25
22	Notetaker: Kit	2100q: 1							

Location Name	Time	Temp	Sal	DO	DO Sat			aritie or	TIN		W		People		TCC 0
Eocation (value	Time	(C)	(ppt)	(mg/L)	(%)	pН	Lui	rbidity (N	10)	Waves	Wind	Swim	Beach	Camp	TSS?
505 Front St PFF PFF170531	8:12	26.4	34.0	6.21	92.8	8.07	4.12	3,83	3,86	choppy	on shore	0	1	Ď	
Lindsey Hale PLH PLH170531	8:41	26.5	34.4	6.32	94.9	8.06	4.84	5.54	5.05	texture	on shore	O	3	0	
Lahaina Town PLT PLT170531	9:02	26.8	33.7	6.01	90.3	8.05	12.6	12.6	14.5	lextured	25 onshare	4 Sur	6 rs	٥	×
Puamana PPU PPU170531	9:25	26.9	34.6	6.73	101.8	8.15	3,31	2.98	3.00	2'+	onshore 15	٥	0	٥	12
Launiupoko OLP OLP170531	9:48	26.9	34.8	6.80	103.2	8:12	2.94	2.54	2.29	</td <td>conshort</td> <td>2</td> <td>10</td> <td>6</td> <td></td>	conshort	2	10	6	
Olowalu Pier OSF OSF170531	10:10	27.1	34.7	7.27	110.5	8.10	2.29	2.71	1.93	textured	onshore <10	٥	0	٥	

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent low tide time/height (Lahaina station):	High 8:20 a.m. falling; Low 1:14 p.m.
Moon Day (from new)	6/7
Cloud Cover (1-8):	0, 20%, 20%, 38%, 15
Rain Conditions (last 24 hours)	
Wind conditions (Trades? Kona?):	on shore
Streams flowing? (Y/N)	y

QA Notes and Comments (Trends? Equip problems? Errors? Concerns?)

PFF running + sond is cut out to 1+ ft (pie)

erusseship

PLH drain is 80% sand filled (see pic) recent King
tives

Waves: 0 ft = no waves; 1 ft = small waves; 2 ft = knee high; 3 ft = waist high Wind: 0 = calm, 1 = light air, 2 = light breeze, 3 = gentle breeze, 4 = moderate breeze People: Swimmers/Kayakers/Surfers, On beach, Campers: 0, 1-5, 5-10, 10-20, 20-40

Turbidity Verification

	Blank	Low	Med	High
Standard	0.04	5.40	56.0	608
Pre	0.05	5.41	55.9	607
Post	0,04	5.36	55.9	606

	Total # of samples	Relinquished To::	Contact
Sediment		LHS	Dana Reed
Nutrient	6	LHS	Dana Reed
Bacteria			

Signature (Lead):

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
Polanui - 22	Cothy Rich Kit	5/31/17	8:15	10:25

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients				9.975			
PFF170531-N-1	505 Front St	风		8;12	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
PLH170531-N-1	Lindsey Hale	×		8:41	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
PLT170531-N-I	Lahaina Town	Ø		9:02	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
PPU170531-N-1	Puamana	Ø		9:25	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
OLP170531-N-1	Launiupoko	Ø		9:48	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
OSF170531-N-1	Olowalu SF	Ø		10:10	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
					125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
Sediment							
PFF170531-S-1	505 Front St				500		
PLH170531-S-1	Lindsey Hale				500		
PLT170531-S-1	Lahaina Town	×			500		
PPU170531-S-1	Puamana				500		
OLP170531-S-1	Launiupoko				500		
OSF170531-S-1	Olowalu SF						

Team/ Session:	Samplers (Initials):	Instrument #	Probe #s	pН	DO	Salinity	Date:	1 st Sample Time	End Sample Time:
Olowalu	Lead: 683n66 660	40d: 2	40d:	3	l	2	6/1/17	720	9:30
22	Notetaker: NCW /660	2100q: (7					

Total Name Time T		Тетр	Temp Sal DO DO		DO Sat	OO Sat pH Turbidity (NTU)		Wasan Wasan		People		WY			
Location Name	Time	(C)	(ppt)	(mg/L)	(%)	pН	1 ur	blaity (IV	10)	Waves Wi	Wind	Swim	Beach	Camp	TSS ?
Martin Hale OPM OPM170601	120	25.0	34.5	5.80	85.1	8.00	1.90	1.83	1.81	0	0	0	0	0	
Camp Olowalu OCO OCO170601	125	15.8	34.6	6.45	96.1	8.09	6.00	5,96	5,59	1°ft	1	٥	20-40	6	
Mile Marker 14 OMM OMM170601	805	24.0	34.1	5.81	81.7	8.06	3,90	4.17	4.13	15t	l	1	_	_	
Ukumehame OUB OUB170601	830	25.8	34.9	6.84	101-8	8.09	6.75	7.11	7.56	3	3	Ó	2	Ó	
Papalaua Beach OPB OPB170601	850	25.9	34.8	7.01	1045	8.15	4.43	4.36	4.47	2	3	0	0	0	
Papalaua Pali OPP OPP170601	910	25.8	34.7	6.96	103.6	8.16	Z.48	3.04	2.93	3	3	0	5-10	1-5	

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent low tide time/height (Lahaina station):	Low 4:59 a.m. rising; High 10:50 a.m.
Moon Day (from new)	7/8
Cloud Cover (1-8):	0
Rain Conditions (last 24 hours)	port
Wind conditions (Trades? Kona?):	CALM
Streams flowing? (Y/N)	N

QA Notes and Comments (Trends? Equip problems? Errors? Concerns?)

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Waves: 0 ft = no waves; 1 ft = small waves; 2 ft = knee high; 3 ft = waist high Wind: 0 = calm, 1 = light air, 2 = light breeze, 3 = gentle breeze, 4 = moderate breeze People: Swimmers/Kayakers/Surfers, On beach, Campers: 0, 1-5, 5-10, 10-20, 20-40

Turbidity Verification

	Blank	Low	Med	High
Standard	0.04	5.40	56.0	608
Pre	0.06	5.33	55.9	608
Post	0.04	5.39	56.0	607

	Total # of samples	Relinquished To::	Contact
Sediment		LHS	Dana Reed
Nutrient		LHS	Dana Reed
Bacteria			

Signature (Lead):

Son & ME To

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
Olowalu - 22		06/01/17		

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients				10-11-			
OPM170601-N-I	Martin Hale	国		120	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
OCO170601-N-1	Camp Olowalu	×		145	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
OMM170601-N-1	Mile Marker 14	M		805	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
OUB170601-N-1	Ukumehame	Ø		830	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
OPB170601-N-1	Papalaua Beach	郊		850	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
OPP170601-N-1	Papalaua Pali	X,		910	125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
					125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	
Sediment			2000 TO 100 TO 1				
OPM170601-S-1	505 Front St				500		
OCO170601-S-I	Lindsey Hale				500		
OMM170601-S-1	Lahaina Town				500		
OUB170601-S-1	Puamana				500		
OPB170601-S-1	Launiupoko				500		
OPP170601-S-1	Olowalu SF				500		