

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

Teams:	Technician:	Session No:	Pre date:	Pre time:	Post: Date:	Post time:
	Dana Reed	21	5/8/17	10:30 Am	5/11/17	10:45 AM

QA/QC Check	Inst #	Probe #	Last Cal Date	Verification Standard		PRE: Verification Value		POST: Verification Value		Acceptable Range (Check range)	Comments/ Notes
Temperature						26.9		25.6		± 1°C of NIST	Within 1°C
*	1	5-3	—			26.8		25.7			
	1	5-2	—			27.0		25.9			
Salinity				0ppt	35ppt	0.04	33.3	0.04	33.3	± 3%, blank	33.95 – 36.05
*	1	3	5/8/17			0.04	33.3	0.04	33.4		Pre Temp 26.8
	1	2	3/6/17			0.06	33.5	0.04	33.5		Pre Temp 26.8
Dissolved Oxygen				100%		100%		100%		Post-check ± 5 % of pre-check (0-100%)	80 – 120 %
*	1	1	3/28/17			100.9		102.4			Post Temp 26.2
	1	2	7/25/16			98.0		98.0			Post Temp 27.1
pH				7	10	7.00	10.01	7.00	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21
	1	3	5/8/17			7.00	10.00	7.02	9.99		Post Temp 26.4
*	1	4	5/8/17			7.00	10.00	7.05	10.03		Post Temp 26.3

Notes:

* used in field this week

IN-SITU READINGS:

Team:	Samplers:	Instrument #	Probe #s	Date:	Start time:	Finish time:
Olowalu	Michelle Griffon	40d: 1	S: 3 pH: 4	5/11/17	7:00 AM	9:26 AM
21	DR	2100q 1	DO: 1			

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Saturation (%)	pH	Turbidity ¹ (NTU)			Comments		
										Waves	Swimmers	Wind
Martin Hale OPM OPM170511	7:21	24.7 DO 24.5 S 24.6 P	34.2	6.07	88.2	8.06	2.37	2.54	2.40	φ	φ	1
Camp Olowalu OCO OCO170511	7:44	25.0 S 25.2 D 25.1 P	34.3	6.46	94.8	8.11	1.90	1.80	1.86	φ	φ	0
Mile Marker 14 OMM OMM170511	8:05	25.1 D 24.9 S 24.9 P	33.9	6.47	94.7	8.10	2.06	2.18	2.42	φ	2 SSK 0-5 DB	0
Ukumehame OUB OUB170511	8:24	25.3 D 25.1 S 25.2 P	34.6	6.88	101.5	8.16	5.28	5.32	5.47	1 ft	0-5 SSK	2
Papalaua Beach OPB OPB170511	8:42	25.2 S 25.4 D 25.3 P	34.3	7.21	106.3	8.20	* 5.70 4.73	* 6.05 5.58	* 6.16 6.89	1 ft	φ	2
Papalaua Pali OPP OPP170511	9:06	25.0 S 25.2 D 25.1 P	34.4	6.98	102.7	8.20	3.09	3.93	3.50	2 ft	2 SSK φ C φ OB	2
Turbidity Verification Pre:	Blank:	.04	Low: 0-10 5.40	5.39	Med: 10-100 56.0	55.8	High: 100-1000 608	609	Comment			
Post:	Blank:	.04	0-10	5.36	10-100	55.9	100-1000	607				

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Tide height 7:00 a.m. (Lahiana station) 0.3 feet falling; Low tide 9:20 a.m.

Moon: 16

Cloud Cover (1-8): 1

Wind conditions (general): light trades

Rain Conditions (general): none

* After 1st series of turbidity readings discovered 3 drop on sample cell. Repeated readings - no significant difference.

Hui O Ka Wai Ola, 12/12/2016

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
Olowalu	Dana Reed	5/11/17	7:21	9:26

MG

Sample No	Location Name	Time	Vol (mL)	Nutrient Bottle?	SSC ?	Quality control notes	Grab sample?
OPM170511-N-1	Martin Hale	7:21	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
OPM170511-S-1	Martin Hale		500		X		<input type="checkbox"/>
OCO170511-N-1	Camp Olowalu	7:44	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
OCO170511-S-1	Camp Olowalu		500		X		<input type="checkbox"/>
OMM170511-N-1	Mile Marker 14	8:05	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
OMM170511-S-1	Mile Marker 14		500		X		<input type="checkbox"/>
OUB170511-N-1	Ukumehame	8:24	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
OUB170511-S-1	Ukumehame		500		X		<input type="checkbox"/>
OPB170511-N-1	Papalaua Beach	8:42	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
OPB170511-N-2	Papalaua Beach	8:42	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
OPB170511-S-1	Papalaua Beach		500		X		<input type="checkbox"/>
OPP170511-N-1	Papalaua Pali	9:06	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
OPP170511-S-1	Papalaua Pali		500		X		<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>



Hui O Ka Wai Ola, 12/12/2016

IN-SITU READINGS:

Team:	Samplers:	Instrument #	Probe #s	Date:	Start time:	Finish time:
Polanui	Cathy Maxwell Richy Jim M, Cathy M	40d: #1	S: 3 pH: 4	5/10/17	8:17 am	10:30 am
21	Rain tank samples	2100q #1	DO: 1			

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Saturation (%)	pH	Turbidity ¹ (NTU)			Comments		
										Waves	Swimmers	Wind
505 Front St PFF PFF170510	8:17 am	25.5	34.2	6.46	95.6	8.14	2.30	2.09	2.33	flat stream running just a little by 505	none	none
Lindsey Hale PLH PLH170510	8:40	25.8	33.9	6.24	92.7	8.14	1.59	2.28	2.12	flat stream NOT running	none	very little
Lahaina Town PLT PLT170510	8:59	25.9	34.7	6.33	94.4	8.14	1.36	1.30	2.06	flat low tide sample taken by buddy (next to)	none	4 mph gusts
Puamana PPU PPU170510	9:31	26.1	34.3	6.91	103.2	8.23	1.66	1.91	1.45	1.5 ft	none	4 mph
Launiupoko OLP OLP170510	9:53	26.8	34.6	6.94	105.0	8.18	2.16	1.80	2.60	0.5 ft	none	6 mph
Olowalu Pier OSF OSF170510	10:19	26.8	34.4	7.23	109.7	8.18	1.63	1.74	1.85	flat	none	6 mph
Turbidity Verification Pre:	Blank:	0.05	Low: 0-10 5.40	5.36	Med: 10-100 56.0	56.0	High: 100-1000 608	607	Comment			
Post:	Blank:	0.64	0-10	5.35	10-100	56.1	100-1000	606				

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Tide height 7:00 a.m. (Lahaina station) 0.1 feet falling; Low tide 8:54 a.m.

Moon: 15

Cloud Cover (1-8): 90% clouds (505), (PLH) ~ 80% clouds (PFF)(PLT) (PPU)
50% clouds (OLP), 35% (OSF)

Wind conditions (general):

Rain Conditions (general): no rain (505)(PLH)(PLT)(PPU)(OLP)

Hui O Ka Wai Ola, 12/12/2016

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
Polanui	Cathy Maxwell	5/10/17	8:00	11:30

Sample No	Location Name	Time	Vol (mL)	Nutrient Bottle?	SSC ?	Quality control notes	Grab sample?
PFF170510-N-1	505 Front St	8:17 am	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
PFF170510-S-1	505 Front St		500		X		<input type="checkbox"/>
PLH170510-N-1	Lindsey Hale	8:40	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
PLH170510-S-1	Lindsey Hale		500		X		<input type="checkbox"/>
PLT170510-N-1	Lahaina Town	8:59	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
PLT170510-S-1	Lahaina Town		500		X		<input type="checkbox"/>
PPU170510-N-1	Puamana	9:31	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
PPU170510-S-1	Puamana		500		X		<input type="checkbox"/>
OLP170510-N-1	Launiupoko	9:53	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
OLP170510-S-1	Launiupoko		500		X		<input type="checkbox"/>
OSF170510-N-1	Olowalu SF	10:19	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
OSF170510-S-1	Olowalu SF		500		X		<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Cathy Maxwell

Hui O Ka Wai Ola, 12/12/2016

IN-SITU READINGS:

Team:	Samplers:	Instrument #	Probe #s	Date:	Start time:	Finish time:
R2R	T. F. R. 1906	40d: 1	S: 3 pH: 4	5/9/17	7:30	9:40
21	T.S. B.J.	2100q 1	DO: 1			

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Saturation (%)	pH	Turbidity ¹ (NTU)			Comments		
										Waves	Swimmers	Wind
Napili Bay RNA RNS170509	7:35	25.5 25.3	33.2	7.20	102.6	8.12	0.74	0.74	0.78	SMALL WAVES OFT	45SK 5-10B	0
Pohaku RPO RPO170509	8:00	25.4 25.6	32.3	6.78	98.9	8.16	1.93	2.00	2.25	OFT	0-55K 0-50B	0
Kaanapali Shores RKS RKS170509	8:22	25.6 25.5 25.8	34.0	6.88	101.6	8.14	2.41 3.97	2.48	2.89	OFT	0-55K 0-50B	0
Airport Beach RAB RAB170509	8:45	26.4 26.1	33.6	6.96	103.7	8.20	1.31	1.35	1.77	OFT	10-20SSK 10-20B	1
Canoe Beach RCB RCB170509	9:02	26.3 26.1 26.2	32.3	6.92	102.2	8.19	2.51	2.40	2.58	OFT	0-55S 0-50B	0
Wahikuli RWA RWA170509	9:20	26.0 26.2	33.0	6.86	101.5	8.21	0.80	0.75	0.78	OFT	0-55 0-50B	0
Turbidity Verification Pre:	Blank:	0.06	Low: 0-10 5.4	5.34	Med: 10-100 56.0	55.8	High: 100-1000 608	610		Comment		
Post:	Blank:	0.05	0-10	5.42	10-100	56.1	100-1000	607				

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Tide height 7:00 a.m. (Lahiana station) 0.1 feet, falling; Low tide 8:30 a.m.

Moon: 14

Cloud Cover (1-8): 0

Wind conditions (general): 0

Rain Conditions (general): CLEAR

Hui O Ka Wai Ola, 12/12/2016

WATER QUALITY SAMPLING:

Team:	Samplers:	Date:	Start time:	Finish time:
R2R	T. F. G. G. G.	5/09/17	7:30	9:25

Sample No	Location Name	Time	Vol (mL)	Nutrient Bottle?	SSC ?	Quality control notes	Grab sample?
RNS170509-N-1	Napili	7:35	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
RNS170509-S-1	Napili		500		X		<input type="checkbox"/>
RPO170509-N-1	Pokahu	8:05	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
RPO170509-S-1	Pokahu		500		X		<input type="checkbox"/>
RKS170509-N-1	Kaanapali Sh	8:25	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
RKS170509-S-1	Kaanapali Sh		500		X		<input type="checkbox"/>
RAB170509-N-1	Airport Beach	8:45	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
RAB170509-S-1	Airport Beach		500		X		<input type="checkbox"/>
RCB170509-N-1	Canoe Beach	9:05	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
RCB170509-S-1	Canoe Beach		500		X		<input type="checkbox"/>
RWA170509-N-1	Wahikuli	9:25	125	X		Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input checked="" type="checkbox"/>
RWA170509-S-1	Wahikuli		500		X		<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>
							<input type="checkbox"/>

Hui O Ka Wai Ola, 12/12/2016

