

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

Session No:	Verifiers:	Pre date:	Pre time:	Post: Date:	Post time:
34	G. BUNNETT L. CALLAN	1/24/2018	9:53	2/2/18	11:15am

QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value		POST: Verification Value		Acceptable Range (Check range)	Comments/ Notes	QA?
Temperature			n/a	Std	(Probe 3) 23.6	(Probe 2) 23.5	(probe 3) 22.9		± 1°C of NIST	Within 1°C	
	1	3	n/a		23.8		23.3				
	1	2	n/a		23.8						
Salinity				Std	0.04	Bottle 11/13/17 33.2 ppt	0.04	Bottle 11/13/17 33.2 ppt	± 3%, blank	33.95 – 36.05	
	1	3	1/8/18		0.03	33.1	0.04	32.9			
	1	2	1/8/18		0.03	33.2					
Dissolved Oxygen				Std	100%		100%		Post-check ± 5 % of pre-check (0-100%)	80 – 120 %	
	1	2	8/1/17		99.6		100.5%				
	1	1	3/28/17		100.7						
pH				Std	7.00	10.01	7.00	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	1	4	1/29/18		7.00	10.01	7.02	10.00		PRE TEMP 24.2 °C	
	1	3	4/24/18		7.00	10.01					

QA:

- * Are pre- and post within one week?
- * Delay times are ok?
- * Other equipment issues?

Team/ Session	Samplers Last Name, 1st Initial		Instrument #	pH #	DO #	Salinity #	Date:
R2RS	Notetaker: Maxwell, C		40d: 1	4	2	3	1/30/18
34	Others: Jarmakani, B Schroeder, T		2100q: 1				

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)			TSS ?	Nutrient Duplicate ?
												In Water	Beach	Camp		
Napili Bay RNS RNS180130	8:15	23.7	34.5	6.89	99.8	8.18	2.32	1.75	1.88	2	1	0	1	0	<input type="checkbox"/>	<input type="checkbox"/>
Pohaku RPO RPO180130	8:48	23.8	33.3	6.97	100.2	8.17	19.7	21.3	20.3	3	2	3	3	0	<input type="checkbox"/>	<input type="checkbox"/>
Kaanapali Sh RKS RKS180130	9:16	23.9	34.6	6.84	99.5	8.18	6.40	6.76	6.52	2	1	1	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Airport Beach RAB RAB180130	9:39	24.1	34.4	6.83	99.3	8.19	9.22	7.24	9.87	2	4	3	18	0	<input type="checkbox"/>	<input type="checkbox"/>
Canoe Beach RCB RCB180130	10:03	24.1	33.0	6.89	99.6	8.20	1.42	1.54	1.64	1	4	0	5	0	<input type="checkbox"/>	<input type="checkbox"/>
Wahikuli RWA RWA180130	10:25	24.2	33.2	6.84	99.0	8.20	2.16	2.19	2.22	1	4	1	3	0	<input type="checkbox"/>	<input type="checkbox"/>

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low 9:54 a.m.; Falling High 3:40 a.m.
Moon Day (from new)	14
Cloud Cover (0-8):	0
Rain Conditions (last 24 hours)	0
Wind Direction (Trades? Kona?):	Kona
Streams flowing? (Y/N)	Pohaku-No

QA Notes and Comments (Trends? Equip problems? Errors? Concerns? Use back of form if needed.)

Napili - waves 3-4 ft, only 2 ft where sample taken

Pohaku - wind 2

Kaanapali Sh - access difficult
gathered 2 buckets of sea water

Airport Beach - large particles made turbidity results more variable

Canoe Beach - choppy water - Wahikuli too

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

Turbidity Verification

	Blank	Low	Med	High
Standard	0.05	5.32	55.3	622
Pre	0.06	5.37	55.4	625
Post	0.07	5.29	55.5	622

	Total # of samples	Relinquished To::	Contact
Sediment	0	LHS	Cathy Maxwell
Nutrient	6	LHS	Cathy Maxwell
Bacteria	0		Cathy Maxwell

Signature (Team Lead):

Catherine Maxwell

Print name here:

Catherine Maxwell

Kaanapali Shores sample site is now problematic due to severe erosion and addition of large boulders that make access to the beach hazardous for samplers, especially at high tide. Request review of the site with Dana to determine a better approach to sampling there or possible movement of the site. There is ongoing earthmoving, etc. by the hotel to shore up the structural support to save the hotel.

Turbidity Measurements			
Time	Depth	Location	Notes
10:00	0.5m	Station 1	Clear
10:15	1.0m	Station 1	Clear
10:30	1.5m	Station 1	Clear
10:45	2.0m	Station 1	Clear
11:00	2.5m	Station 1	Clear
11:15	3.0m	Station 1	Clear
11:30	3.5m	Station 1	Clear
11:45	4.0m	Station 1	Clear
12:00	4.5m	Station 1	Clear
12:15	5.0m	Station 1	Clear
12:30	5.5m	Station 1	Clear
12:45	6.0m	Station 1	Clear
13:00	6.5m	Station 1	Clear
13:15	7.0m	Station 1	Clear
13:30	7.5m	Station 1	Clear
13:45	8.0m	Station 1	Clear
14:00	8.5m	Station 1	Clear
14:15	9.0m	Station 1	Clear
14:30	9.5m	Station 1	Clear
14:45	10.0m	Station 1	Clear
15:00	10.5m	Station 1	Clear
15:15	11.0m	Station 1	Clear
15:30	11.5m	Station 1	Clear
15:45	12.0m	Station 1	Clear
16:00	12.5m	Station 1	Clear
16:15	13.0m	Station 1	Clear
16:30	13.5m	Station 1	Clear
16:45	14.0m	Station 1	Clear
17:00	14.5m	Station 1	Clear
17:15	15.0m	Station 1	Clear
17:30	15.5m	Station 1	Clear
17:45	16.0m	Station 1	Clear
18:00	16.5m	Station 1	Clear
18:15	17.0m	Station 1	Clear
18:30	17.5m	Station 1	Clear
18:45	18.0m	Station 1	Clear
19:00	18.5m	Station 1	Clear
19:15	19.0m	Station 1	Clear
19:30	19.5m	Station 1	Clear
19:45	20.0m	Station 1	Clear
20:00	20.5m	Station 1	Clear
20:15	21.0m	Station 1	Clear
20:30	21.5m	Station 1	Clear
20:45	22.0m	Station 1	Clear
21:00	22.5m	Station 1	Clear
21:15	23.0m	Station 1	Clear
21:30	23.5m	Station 1	Clear
21:45	24.0m	Station 1	Clear
22:00	24.5m	Station 1	Clear
22:15	25.0m	Station 1	Clear
22:30	25.5m	Station 1	Clear
22:45	26.0m	Station 1	Clear
23:00	26.5m	Station 1	Clear
23:15	27.0m	Station 1	Clear
23:30	27.5m	Station 1	Clear
23:45	28.0m	Station 1	Clear
24:00	28.5m	Station 1	Clear
24:15	29.0m	Station 1	Clear
24:30	29.5m	Station 1	Clear
24:45	30.0m	Station 1	Clear
25:00	30.5m	Station 1	Clear
25:15	31.0m	Station 1	Clear
25:30	31.5m	Station 1	Clear
25:45	32.0m	Station 1	Clear
26:00	32.5m	Station 1	Clear
26:15	33.0m	Station 1	Clear
26:30	33.5m	Station 1	Clear
26:45	34.0m	Station 1	Clear
27:00	34.5m	Station 1	Clear
27:15	35.0m	Station 1	Clear
27:30	35.5m	Station 1	Clear
27:45	36.0m	Station 1	Clear
28:00	36.5m	Station 1	Clear
28:15	37.0m	Station 1	Clear
28:30	37.5m	Station 1	Clear
28:45	38.0m	Station 1	Clear
29:00	38.5m	Station 1	Clear
29:15	39.0m	Station 1	Clear
29:30	39.5m	Station 1	Clear
29:45	40.0m	Station 1	Clear
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30:30	41.5m	Station 1	Clear
30:45	42.0m	Station 1	Clear
31:00	42.5m	Station 1	Clear
31:15	43.0m	Station 1	Clear
31:30	43.5m	Station 1	Clear
31:45	44.0m	Station 1	Clear
32:00	44.5m	Station 1	Clear
32:15	45.0m	Station 1	Clear
32:30	45.5m	Station 1	Clear
32:45	46.0m	Station 1	Clear
33:00	46.5m	Station 1	Clear
33:15	47.0m	Station 1	Clear
33:30	47.5m	Station 1	Clear
33:45	48.0m	Station 1	Clear
34:00	48.5m	Station 1	Clear
34:15	49.0m	Station 1	Clear
34:30	49.5m	Station 1	Clear
34:45	50.0m	Station 1	Clear
35:00	50.5m	Station 1	Clear
35:15	51.0m	Station 1	Clear
35:30	51.5m	Station 1	Clear
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36:00	52.5m	Station 1	Clear
36:15	53.0m	Station 1	Clear
36:30	53.5m	Station 1	Clear
36:45	54.0m	Station 1	Clear
37:00	54.5m	Station 1	Clear
37:15	55.0m	Station 1	Clear
37:30	55.5m	Station 1	Clear
37:45	56.0m	Station 1	Clear
38:00	56.5m	Station 1	Clear
38:15	57.0m	Station 1	Clear
38:30	57.5m	Station 1	Clear
38:45	58.0m	Station 1	Clear
39:00	58.5m	Station 1	Clear
39:15	59.0m	Station 1	Clear
39:30	59.5m	Station 1	Clear
39:45	60.0m	Station 1	Clear
40:00	60.5m	Station 1	Clear
40:15	61.0m	Station 1	Clear
40:30	61.5m	Station 1	Clear
40:45	62.0m	Station 1	Clear
41:00	62.5m	Station 1	Clear
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43:00	66.5m	Station 1	Clear
43:15	67.0m	Station 1	Clear
43:30	67.5m	Station 1	Clear
43:45	68.0m	Station 1	Clear
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44:15	69.0m	Station 1	Clear
44:30	69.5m	Station 1	Clear
44:45	70.0m	Station 1	Clear
45:00	70.5m	Station 1	Clear
45:15	71.0m	Station 1	Clear
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45:45	72.0m	Station 1	Clear
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46:30	73.5m	Station 1	Clear
46:45	74.0m	Station 1	Clear
47:00	74.5m	Station 1	Clear
47:15	75.0m	Station 1	Clear
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50:30	81.5m	Station 1	Clear
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52:30	85.5m	Station 1	Clear
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53:15	87.0m	Station 1	Clear
53:30	87.5m	Station 1	Clear
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65:00	110.5m	Station 1	Clear
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65:30	111.5m	Station 1	Clear
65:45	112.0m	Station 1	Clear
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69:45	120.0m	Station 1	Clear
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70:15	121.0m	Station 1	Clear
70:30	121.5m	Station 1	Clear
70:45	122.0m	Station 1	Clear
71:00	122.5m	Station 1	Clear
71:15	123.0m	Station 1	Clear
71:30	123.5m	Station 1	Clear
71:45	124.0m	Station 1	Clear
72:00	124.5m	Station 1	Clear
72:15	125.0m	Station 1	Clear
72:30	125.5m	Station 1	Clear
72:45	126.0m	Station 1	Clear
73:00	126.5m	Station 1	Clear
73:15	127.0m	Station 1	Clear
73:30	127.5m	Station 1	Clear
73:45	128.0m	Station 1	Clear
74:00	128.5m	Station 1	Clear
74:15	129.0m	Station 1	Clear
74:30	129.5m	Station 1	Clear
74:45	130.0m	Station 1	Clear
75:00	130.5m	Station 1	Clear
75:15	131.0m	Station 1	Clear
75:30	131.5m	Station 1	Clear
75:45	132.0m	Station 1	Clear
76:00	132.5m	Station 1	Clear
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78:00	136.5m	Station 1	Clear
78:15	137.0m	Station 1	Clear
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79:00	138.5m	Station 1	Clear
79:15	139.0m	Station 1	Clear
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79:45	140.0m	Station 1	Clear
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80:15	141.0m	Station 1	Clear
80:30	141.5m	Station 1	Clear
80:45	142.0m	Station 1	Clear
81:00	142.5m	Station 1	Clear
81:15	143.0m	Station 1	Clear
81:30	143.5m	Station 1	Clear
81:45	144.0m	Station 1	Clear
82:00	144.5m	Station 1	Clear
82:15	145.0m	Station 1	Clear
82:30	145.5m	Station 1	Clear
82:45	146.0m	Station 1	Clear
83:00	146.5m	Station 1	Clear
83:15	147.0m	Station 1	Clear
83:30	147.5m	Station 1	Clear
83:45	148.0m	Station 1	Clear
84:00	148.5m	Station 1	Clear
84:15	149.0m	Station 1	Clear
84:30	149.5m	Station 1	Clear
84:45	150.0m	Station 1	Clear
85:00	150.5m	Station 1	Clear
85:15	151.0m	Station 1	Clear

WATER QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 st Initial	Date:
R2RS - 34	Maxwell, C		1/30/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
RNS180130-N-1	Napili Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:15	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RPO180130-N-1	Pokahu	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:48	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RKS180130-N-1	Kaanapali Sh	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:10	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RAB180130-N-1	Airport Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:39	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RCB180130-N-1	Canoe Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:03	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RWA180130-N-1	Wahikuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:25	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment - TSS							
RNS180130-S-1	Napili Bay	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RPO180130-S-1	Pokahu	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RKS180130-S-1	Kaanapali Sh	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RAB180130-S-1	Airport Beach	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RCB180130-S-1	Canoe Beach	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RWA180130-S-1	Wahikuli	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):
Catherine Maxwell
Print name here:
Catherine Maxwell

Team/ Session	Samplers Last Name, 1st Initial										Instrument #	pH #	DO #	Salinity #	Date:
Polanui	Notetaker: MAXWELL, J.										40d: 1	4	2	3	1/31/18
34	Others: 661 RICH Bayly, R 663 KAT HANKE, K										2100q: 1	—	—	—	—

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)			TSS ?	Nutrient Duplicate ?
												In Water	Beach	Camp		
505 Front St PFF PFF180131	8:07	23.8	33.4	6.38	91.8	8.09	10.5	11.4	11.5	1/2	2	0	5	0	<input type="checkbox"/>	<input type="checkbox"/>
Lindsey Hale PLH PLH180131	8:30	23.8	33.8	6.31	91.0	8.09	11.8	12.2	12.9	0	1	0	2	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lahaina Town PLT PLT180131	8:50	24.0	34.1	6.60	95.7	8.13	4.15	4.83	4.74	0	3	0	1	0	<input type="checkbox"/>	<input type="checkbox"/>
Puamana PPU PPU180131	9:12	24.1	34.1	6.94	100.6	8.18	3.79	4.31	4.61	1	2	0	4	0	<input type="checkbox"/>	<input type="checkbox"/>
Launiupoko OLP OLP180131	9:32	24.7	34.7	6.85	100.7	8.15	3.35	3.17	4.45	1	22 JSM	0	4	0	<input type="checkbox"/>	<input type="checkbox"/>
Olowalu Pier OSF OSF180131	9:55	24.6	34.6	6.92	101.5	8.07	4.46	5.28	6.70 661	0	2	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low 10:29 am High 4:17 am falling
Moon Day (from new)	15
Cloud Cover (0-8):	2
Rain Conditions (last 24 hours)	?
Wind Direction (Trades? Kona?):	Kona
Streams flowing? (Y/N)	*

QA Notes and Comments (Trends? Equip problems? Errors? Concerns?
Use back of form if needed.)

* PFF Stream flow - moderate
PLH - had been flowing but stopped

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

Turbidity Verification

	Blank	Low	Med	High
Standard	0.07	5.32	55.3	622
Pre	0.12	5.28	55.3	624
Post	0.07	5.29	55.5	622

	Total # of samples	Relinquished To::	Contact
Sediment	1	LHS	GEORGE BUNNETTE
Nutrient	6	LHS	GEORGE BUNNETTE
Bacteria	0		

Signature (Team Lead):

Print name here:

[Signature] GEORGE B. BUNNETTE

Team:	Notetaker:	Last Name, 1 st Initial	Date:
Polanui 34	MAXWELL, J		1/31/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
PFF180131-N-1	505 Front St	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:07	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
PLH180131-N-1	Lindsey Hale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:30	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
PLT180131-N-1	Lahaina Twn	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:50	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
PPU180131-N-1	Puamana	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:12	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OLP180131-N-1	Launiupoko	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:32	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OSF180131-N-1	Olowalu Pier	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:55	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment - TSS							
PFF180131-S-1	505 Front St	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
PLH180131-S-1	Lindsey Hale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:30	500		<input type="checkbox"/>
PLT180131-S-1	Lahaina Twn	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
PPU180131-S-1	Puamana	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OLP180131-S-1	Launiupoko	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OSF180131-S-1	Olowalu Pier	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):

George B. Burnette III

Print name here:

GEORGE B. BURNETTE III

Team/ Session	Samplers Last Name, 1st Initial										Instrument #	pH #	DO #	Salinity #	Date:
Olowalu	Notetaker: <u>BURNETT, G.</u>										40d: <u>1</u>	<u>4</u>	<u>2</u>	<u>3</u>	2/01/18
34	Others: <u>NOPONEN, K</u> <u>OTOMO, L.</u>										2100q: <u>1</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)			TSS ?	Nutrient Duplicate ?
												In Water	Beach	Camp		
Martin Hale OPM OPM180201	7:07	24.2	34.9	6.27	91.6	8.08	20.8	21.2	22.7	1	1	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Camp Olowalu OCO OCO180201	7:27	25.2	34.2	6.44	95.4	8.08	2.96	2.92	3.25	1	1	18	11	0	<input type="checkbox"/>	<input type="checkbox"/>
Mile Marker 14 OMM OMM180201	7:44	25.1	34.5	6.26	92.5	8.07	4.57	4.34	4.23	1	1	0	3	3	<input type="checkbox"/>	<input type="checkbox"/>
Ukumehame OUB OUB180201	7:58	24.6	34.7	6.54	95.9	8.12	5.91	6.20	5.72	1	2	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Papalaua Beach OPB OPB180201	8:12	25.0	34.8	6.59	97.5	8.10	7.42	8.99	7.38	2	2	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Papalaua Pali OPP OPP180201	8:28	24.9	34.7	6.53 2.65 pr	96.4	8.14	2.65	2.47	2.96	2	1	0	2	2	<input type="checkbox"/>	<input type="checkbox"/>

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low 11:04 am High 4:53 am rising
Moon Day (from new)	16
Cloud Cover (0-8):	60% B 5
Rain Conditions (last 24 hours)	NONE
Wind Direction (Trades? Kona?):	KONA
Streams flowing? (Y/N)	N/A

QA Notes and Comments (Trends? Equip problems? Errors? Concerns?
Use back of form if needed.)

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

Turbidity Verification				
	Blank	Low	Med	High
Standard	0.07	5.32	55.3	622
Pre	0.07	5.30	55.5	624
Post	0.06	5.35	55.6	622

	Total # of samples	Relinquished To::	Contact
Sediment	0	LHS	GEORGE BURNETT
Nutrient	6	LHS	GEORGE BURNETT
Bacteria	0		

Signature (Team Lead): George Burnett Print name here: George Burnett

Team:	Notetaker:	Last Name, 1 st Initial	Date:
Olowalu 34	BURNETT, G.		2/01/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
OPM180201-N-1	Martin Hale	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:07	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OCO180201-N-1	Camp Olowalu	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:27	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OMM180201-N-1	Mile Marker 14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:44	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OUB180201-N-1	Ukumehame	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:58	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OPB180201-N-1	Papalaua Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:12	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
OPP180201-N-1	Papalaua Pali	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:28	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment - TSS							
OPM180201-S-1	Martin Hale	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OCO180201-S-1	Camp Olowalu	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OMM180201-S-1	Mile Marker 14	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OUB180201-S-1	Ukumehame	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OPB180201-S-1	Papalaua Beach	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
OPP180201-S-1	Papalaua Pali	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):

Print name here:

George G. Burnett George G. Burnett

Team/ Session	Samplers Last Name, 1st Initial		Instrument #	pH #	DO #	Salinity #	Date:
R2RN	Notetaker:	Lyn Huthings	40d:	1	4	2	2/2/18
34	Others:	Bruce Bonker Ananda Stone Cici Hehemann	2100q:	1	too	—	—

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)			TSS ?	Nutrient Duplicate ?
												In Water	Beach	Camp		
Honolua Bay RHL RHL180202	7:55A	23.5	34.5	6.74	96.7	8.13	13.0	12.8	13.1	0	0	0	0	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fleming North RFN RFN180202	8:35A	24.0	34.8	6.91	100	8.19	6.82	7.13	6.98	1	0	4	3	0	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Oneloa Bay RON RON180202	9:00A	24.0	34.8	6.93 8.46	100.5	8.18	0.90	0.95	0.82	2	0	4	1	0	<input type="checkbox"/>	<input type="checkbox"/>
Kapalua Bay RFS RFS180202	9:30A	24.2	34.3	6.91	100.3	8.16	1.88	1.80	1.73	1	0	6	50	0	<input type="checkbox"/>	<input type="checkbox"/>
Ka'opala Bay RKO RKO180202	9:55A	24.3	34.2	6.83	99.3	8.13	11.6	12.2	11.9	1	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Kahana Vill RKV RKV180202	10:10A	24.6	33.8	6.87	99.9	8.13	8.81	8.56	8.29	1	0	2	7	0	<input type="checkbox"/>	<input type="checkbox"/>

COASTAL AND ENVIRONMENTAL CONDITION NOTES

Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising	Low 11:38 a.m.; Falling High 5:27 a.m.
Moon Day (from new)	17
Cloud Cover (0-8):	8
Rain Conditions (last 24 hours)	Y - light rain early morning
Wind Direction (Trades? Kona?):	0 - light kona
Streams flowing? (Y/N)	N - RHL or any

QA Notes and Comments (Trends? Equip problems? Errors? Concerns?
Use back of form if needed.)

RON - LIGHT RAIN STARTED
RKO - CLOUDS CLEARING
RKV - SUN COMING OUT

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

Turbidity Verification

	Blank	Low	Med	High
Standard	0.06	5.32	55.3	622
Pre	0.07	5.34	55.8	625
Post	0.06	5.32	55.9	623

	Total # of samples	Relinquished To::	Contact
Sediment	2	LHS	Cathy Maxwell
Nutrient	6	LHS	Cathy Maxwell
Bacteria	0		Cathy Maxwell

Signature (Team Lead):

Catherine Maxwell

Print name here:

Cathy Maxwell

WATER QUALITY SAMPLING:

Team:	Notetaker: Last Name, 1 st Initial	Date:
R2RN - 34	Lyn Hutchings	2/2/18

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
RHL180202-N-1	Honolua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:55	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RFN180202-N-1	Fleming North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RON180202-N-1	Oneloa Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:00	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RFS180202-N-1	Kapalua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:30	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RKO180202-N-1	Ka'opala Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:55	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
RKV180202-N-1	Kahana Village	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:10	125	Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders	<input type="checkbox"/>
Sediment - TSS							
RHL180202-S-1	Honolua Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:55	500		<input type="checkbox"/>
RFN180202-S-1	Fleming North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	500		<input type="checkbox"/>
RON180202-S-1	Oneloa Bay	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RFS180202-S-1	Kapalua Bay	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RKO180202-S-1	Ka'opala Bay	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
RKV180202-S-1	Kahana Village	<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):
Catherine Maxwell
Print name here:
Cathy Maxwell