



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

| Session No: | Verifiers: | Pre date: | Pre time: | Post Date: | Post time: |
|-------------|-----------------------|-----------|-----------|------------|------------|
| 27 | C. MAXWELL G. BURNETT | 9/11/17 | 11:15 | 9/15/17 | 12:15 |

| 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 2) | (Probe 3) | Probe 2 | | ± 1°C of NIST | Within 1°C | |
| | 2 | 2 | n/a | | 27.9 | 28.0 | 27.7 | | | | |
| | 2 | 3 | n/a | | 27.8 °C | | 27.6 °C | | | | |
| | 2 | 3 | n/a | | 27.7 °C | | | | | | |
| Salinity | | | | Std | 0.04 | Bottle 8/4/17 33.3 | 0.04 | Bottle 8/4/17 33.3 | ± 3%, blank | 33.95 – 36.05 | |
| | 2 | 2 | 6/19/17 | | 0.04 | 33.7 | 0.04 | 33.5 | | | |
| | 2 | 3 | 6/19/17 | | 0.04 | 34.4 | | | | | |
| Dissolved Oxygen | | | | Std | 100% | | 100% | | Post-check ± 5 % of pre-check (0-100%) | 80 – 120 % | |
| | 2 | 1 | 3/28/17 | | 100.2 % | | 103.1 % | | | | |
| | 2 | 2 | 8/1/17 | | 99.4 % | | | | | | |
| pH | | | | Std | 7.00 | 10.01 | 7.00 | 10.01 | ± 3 % of calibration solution (6-8) | 6.79 – 7.21 | |
| | 2 | 3 | 9/11/17 | | 7.00 | 10.01 | 7.03 | 10.00 | | | |
| | 2 | 4 | 9/11/17 | | 7.00 | 10.01 | | | | | |

QA: * Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

* Used in field. Did not post verify probes that were not used in field.

| Team/ Session | Samplers Last Name, 1st Initial | | | | | | | | | | Instrument # | pH # | DO # | Salinity # | Date: |
|------------------|--|--|--|--|--|--|--|--|--|--|-----------------|---------|---------|---------------|---------|
| R2R | Notetaker: Schroeder, Marie | | | | | | | | | | 40d: 2 | 3 | 1 | 2 | 9/12/17 |
| 27 | Others: Friberg, Ty, Jannakani, Brenda Schroeder, Terry | | | | | | | | | | 2100q: 2 | | | | |

| 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 RNS170912 | 7:56 | 27.1 ✓ 27.2 cm | 34.4 | 6.31 | 96.5 | 8.08 ✓ | 1.27 | 1.19 | 1.13 | 0 | 0 | 0.5 | 5-10 | 0 | <input type="checkbox"/> | <input type="checkbox"/> |
| Pohaku RPO RPO170912 | 8:22 | 27.5 ✓ 27.3 cm | 34.3 | 6.32 | 96.9 | 8.13 ✓ | 7.09 | 6.82 | 6.73 | 1 | 0 | 0 | 1 | 0 | <input type="checkbox"/> | <input type="checkbox"/> |
| Kaanapali Sh RKS RKS170912 | 8:42 | 27.4 ✓ 27.3 cm | 34.5 | 6.07 | 93.0 | 8.08 | 6.42 | 6.53 | 6.51 | 1 | 0 | 1.5 4 | spearfisher 5-10 | 0 | <input type="checkbox"/> | <input type="checkbox"/> |
| Airport Beach RAB RAB170912 | 9:02 | 28.1 ✓ 27.9 cm | 34.5 | 6.38 | 98.8 | 8.15 | .49 | .55 | .55 | 0 | 0 | 10-20 | 10-20 | 0 | <input type="checkbox"/> | <input type="checkbox"/> |
| Canoe Beach RCB RCB170912 | 9:20 | 28.0 ✓ 28.1 cm 27.8 | 34.7 | 6.60 | 102.3 | 8.18 | 1.80 | 1.60 | 1.69 | 0-1 | 2 | 5.10 | 1-5 | 0 | <input type="checkbox"/> | <input type="checkbox"/> |
| Wahikuli RWA RWA170912 | 9:38 | 28.0 ✓ 27.8 cm | 34.6 | 6.57 | 100.8 | 8.17 | 1.26 | 1.19 | 1.29 | 0-1 | 0 | 1 | 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 1:07 a.m.; Rising High 9:20 a.m. |
| Moon Day (from new) | 22 |
| Cloud Cover (0-8): | 0 |
| Rain Conditions (last 24 hours) | — |
| Wind Direction (Trades? Kona?): | 0 Little Kona |
| Streams flowing? (Y/N) | N |

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

Pohaku - while taking sample Terry picked
plastic bag out of water

Hot day! Humid

waves @ Canoe

Napili access OK due to alternate route
despite stairs were washed 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 | 0.08 | 6.90 | 60.8 | 578 |
| Pre | 0.11 ✓ | 6.87 | 60.8 | 578 |
| Post | 0.12 | 7.00 | 61.5 | 579 |

| | Total # of samples | Relinquished To:: | Contact |
|----------|-----------------------|-------------------|-----------|
| Sediment | 0 | LHS | Maxwell C |
| Nutrient | 6 | LHS | Maxwell C |
| Bacteria | 0 | | Maxwell C |

Signature (Team Lead):

Cathy Maxwell

Print name here:

Ty Friberg
Cathy Maxwell

WATER QUALITY SAMPLING:

| Team: | Notetaker: | Last Name, 1 st Initial | Date: |
|----------|--------------|------------------------------------|---------|
| R2R - 27 | Schroeder, M | | 9/12/17 |

| Sample No | Location Name | Sample taken? | Storm sample? | Time | Vol (mL) | Protocol notes | Comments |
|---------------|---------------|-------------------------------------|--------------------------|------|----------|--|--------------------------|
| Nutrients | | | | | | | |
| RNS170912-N-1 | Napili Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7:56 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RPO170912-N-1 | Pokahu | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:22 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RKS170912-N-1 | Kaanapali Sh | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:42 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RAB170912-N-1 | Airport Beach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:02 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RCB170912-N-1 | Canoe Beach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:22 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RWA170912-N-1 | Wahikuli | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:38 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 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 | | | | | | | |
| RNS170912-S-1 | Napili Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RPO170912-S-1 | Pokahu | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RKS170912-S-1 | Kaanapali Sh | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RAB170912-S-1 | Airport Beach | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RCB170912-S-1 | Canoe Beach | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RWA170912-S-1 | Wahikuli | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |

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

| Team/Session | Samplers Last Name, 1st Initial | | | | | | | | | | Instrument # | pH # | DO # | Salinity # | Date: |
|--------------|------------------------------------|--|--|--|--|--|--|--|--|--|--------------|------|------|------------|---------|
| Polanui | Notetaker: BURNETTE, G | | | | | | | | | | 40d: 2 | 3 | 1 | 2 | 9/13/17 |
| 27 | Others: BAYLY, R BROWN, M | | | | | | | | | | 2100q: 2 | | | | |

| 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 PFF170913 | 0811 | 28.0 | 34.9 | 6.38 | 99.0 | 8.08 | 4.06 | 3.89 | 4.66 | 1 | 0 | 5 | 1 | 0 | <input type="checkbox"/> | <input type="checkbox"/> | |
| Lindsey Hale PLH PLH170913 | 0843 | 27.9 | 34.5 | 6.36 | 99.3 | 8.11 | 8.13 | 8.25 | 8.50 | 1 | 2 | 0 | 3 | 0 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Lahaina Town PLT PLT170913 | 1014 | 27.7 | 33.8 | 6.51 | 99.9 | 8.08 | 19.9 | 19.3 | 18.4 | 1 + 600 | 3 + 600 | 4 + 600 | 0 + 600 | 0 + 600 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Puamana PPU PPU170913 | NO SAMPLING - SURF TOO HIGH | | | | | | | | | | | | | | | <input type="checkbox"/> | <input type="checkbox"/> |
| Launiupoko OLP OLP170913 | 0915 | 28.0 | 34.9 | 6.40 | 99.1 | 8.11 | 2.34 | 2.45 | 2.51 | 2 | 3 | 4 | 1 | 0 | <input type="checkbox"/> | <input type="checkbox"/> | |
| Olowalu Pier OSF OSF170913 | 0933 | 28.3 | 34.9 | 6.15 | 95.9 | 8.04 | 1.18 | 1.21 | 1.06 | 1 | 3 | 0 | 1 | 3 | <input type="checkbox"/> | <input type="checkbox"/> | |

COASTAL AND ENVIRONMENTAL CONDITION NOTES

| | |
|--|--|
| Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising | Low 2:19 a.m.; High 11:14 a.m. Rising |
| Moon Day (from new) | 22 |
| Cloud Cover (0-8): | 8 |
| Rain Conditions (last 24 hours) | 600 NONE YES |
| Wind Direction (Trades? Kona?): | KONA NONE 600 |
| Streams flowing? (Y/N) | Y |

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

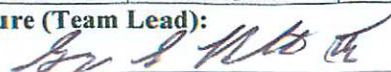
LIGHT BUT STEADY STREAM FLOW AT PFF
HEAVY RAIN AT PLT - WE SKIPPED THIS SITE AND CAME
BACK LATER
HEAVY LGT RAIN AT OLP AND PLH
NO SAMPLE AT PLT LAST DUE TO RAIN SIMILAR
THAT
PUSHED WATER FROM STREAM 600
CAUTION

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 * See note on back | | | | |
|---|-------|------|------|------|
| | Blank | Low | Med | High |
| Standard | 0.12 | 6.90 | 60.8 | 577 |
| Pre | 0.20 | 6.94 | 61.8 | 582 |
| Post | 0.12 | 7.12 | 62.1 | 582 |

| | Total # of samples | Relinquished To:: | Contact |
|----------|--------------------|-------------------|-----------------|
| Sediment | 2 | LHS | GEORGE BURNETTE |
| Nutrient | 6 | LHS | GEORGE BURNETTE |
| Bacteria | 0 | | GEORGE BURNETTE |

Signature (Team Lead):



Print name here:

GEORGE G. BURNETTE III

* Turbidity meter #2 is starting to exhibit signs of a fouled optical filter again. Took meter out of service until Hach TS contacted. (Higher DI water reading).

| Team: | Notetaker: | Last Name, 1 st Initial | Date: |
|---------------|--------------|------------------------------------|---------|
| Polanui 27 | BURNETTE, G. | | 9/13/17 |

| Sample No | Location Name | Sample taken? | Storm sample? | Time | Vol (mL) | Protocol notes | Comments |
|---------------|---------------|-------------------------------------|-------------------------------------|-------------|----------|--|--------------------------|
| Nutrients | | | | | | | |
| PFF170913-N-1 | 505 Front St | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0811 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| PLH170913-N-1 | Lindsey Hale | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 0843 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| PLT170913-N-1 | Lahaina Twn | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | 1014 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| PPU170913-N-1 | Puamana | <input type="checkbox"/> | <input type="checkbox"/> | NOT SAMPLED | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OLP170913-N-1 | Launiupoko | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0915 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OSF170913-N-1 | Olowalu Pier | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0933 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 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 | | | | | | | |
| PFF170913-S-1 | 505 Front St | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| PLH170913-S-1 | Lindsey Hale | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0843 | 500 | | <input type="checkbox"/> |
| PLT170913-S-1 | Lahaina Twn | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1014 | 500 | | <input type="checkbox"/> |
| PPU170913-S-1 | Puamana | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OLP170913-S-1 | Launiupoko | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OSF170913-S-1 | Olowalu Pier | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |

Signature (Team Lead):

George G. Burnette

Print name here:

GEORGE G. BURNETTE

| Team/ Session | Samplers Last Name, 1st Initial | | | | | | | | | | Instrument # | pH # | DO # | Salinity # | Date: |
|------------------|--|--|--|--|--|--|--|--|--|--|-----------------|----------|----------|---------------|---------|
| Olowalu | Notetaker: <u>BURNETTE, G</u> | | | | | | | | | | 40d: <u>2</u> | <u>3</u> | <u>1</u> | <u>2</u> | 9/14/17 |
| 27 | Others: <u>GALEPOUL, M</u> <u>OTOMO, L</u> | | | | | | | | | | 2100q: <u>1</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 OPM170914 | 0715 | 27.6 | 34.7 | 5.16 | 79.4 | 7.97 | 1.27 | 1.32 | 1.30 | 0 | 1 | 0 | 0 | 0 | <input type="checkbox"/> | <input type="checkbox"/> |
| Camp Olowalu OCO OCO170914 | 0737 | 28.5 | 34.7 | 6.13 | 95.7 | 8.02 | 4.41 | 4.44 | 4.94 | 1 | 0 | 0 | 1 | 0 | <input type="checkbox"/> | <input type="checkbox"/> |
| Mile Marker 14 OMM OMM170914 | 0752 | 28.5 | 34.8 | 5.63 | 88.0 | 7.98 | 3.94 | 3.95 | 3.94 | 1 | 1 | 0 | 0 | 1 | <input type="checkbox"/> | <input type="checkbox"/> |
| Ukumehame OUB OUB170914 | 0807 | 28.3 | 34.9 | 6.35 | 98.9 | 8.08 | 8.11 | 8.57 | 8.50 | 1 | 1 | 2 | 0 | 0 | <input type="checkbox"/> | <input type="checkbox"/> |
| Papalaua Beach OPB OPB170914 | 0825 | 28.4 | 35.0 | 6.61 | 103.2 | 8.09 | 4.53 | 5.04 | 5.13 | 1 | 1 | 0 | 0 | 0 | <input type="checkbox"/> | <input type="checkbox"/> |
| Papalaua Pali OPP OPP170914 | 0840 | 28.5 | 34.3 | 6.58 | 102.6 | 8.07 | 2.66 | 2.78 | 2.65 | 2 | 1 | 2 | 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 3:58 a.m; High 12:29 p.m. rising |
| Moon Day (from new) | 24 |
| Cloud Cover (0-8): | 0 |
| Rain Conditions (last 24 hours) | YES - YESTERDAY |
| Wind Direction (Trades? Kona?): | TRADES |
| Streams flowing? (Y/N) | N |

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

forgot Kimwipes, used toilet paper
for turbidity GGB
forgot to invert NTU @ 2nd reading
@ OPP, repeated analysis

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 | 0.05-0.12 | 5.49 | 57.0 | 625 |
| Pre | 0.06 | 5.52 | 57.0 | 628 |
| Post | 0.06 | 5.48 | 57.1 | 625 |

| | Total # of samples | Relinquished To:: | Contact |
|----------|-----------------------|-------------------|-----------------|
| Sediment | 0 | LHS | GEORGE BURNETTE |
| Nutrient | 6 | LHS | GEORGE BURNETTE |
| Bacteria | 0 | | GEORGE BURNETTE |

Signature (Team Lead):

by J. H. to S.

Print name here:

GEORGE BURNETTE

| Team: | Notetaker: | Last Name, 1 st Initial | Date: |
|---------------|------------|------------------------------------|---------|
| Polanui 27 | BURNETT, G | | 9/14/17 |

| Sample No | Location Name | Sample taken? | Storm sample? | Time | Vol (mL) | Protocol notes | Comments |
|---------------|----------------|-------------------------------------|--------------------------|------|----------|--|--------------------------|
| Nutrients | | | | | | | |
| OPM170914-N-1 | Martin Hale | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0715 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OCO170914-N-1 | Camp Olowalu | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0737 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OMM170914-N-1 | Mile Marker 14 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0752 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OUB170914-N-1 | Ukumehame | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0807 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OPB170914-N-1 | Papalaua Beach | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0825 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| OPP170914-N-1 | Papalaua Pali | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0840 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 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 | | | | | | | |
| OPM170914-S-1 | Martin Hale | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OCO170914-S-1 | Camp Olowalu | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OMM170914-S-1 | Mile Marker 14 | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OUB170914-S-1 | Ukumehame | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OPB170914-S-1 | Papalaua Beach | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| OPP170914-S-1 | Papalaua Pali | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |

Signature (Team Lead):

G. Burnett

Print name here:

GONNE G. BURNETT

| Team/ Session | Samplers Last Name, 1st Initial | | | | | | | | | Instrument # | pH # | DO # | Salinity # | Date: | | |
|--------------------------------|--|-------------|--------------|--------------|------------------|------|--|--|------|-----------------|----------|------------------------|---------------|---------|----------|----------------------------|
| NR2R | Notetaker: <u>Reed, D.</u> | | | | | | | | | 40d: <u>2</u> | <u>3</u> | <u>1</u> | <u>2</u> | 9/15/17 | | |
| 27 | Others: <u>Banker, B. Hutchings, L., Hehemann C.</u> | | | | | | | | | 2100q: <u>1</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 | | |
| Honolua Bay RHL RHL170915 | 8:00 | 26.9 | 34.1 | 5.50 | 83.4 | 8.07 | 6.31 | 6.87 7.89 DR | 6.19 | φ | φ | 4 | 5 | φ | □ | □ |
| Fleming North RFN RFN170915 | 8:45 | 27.5 | 34.7 | 6.61 | 101.4 | 8.16 | 0.84 | 1.17 | 0.86 | 2 | 2 | φ | 10 | φ | □ | □ |
| Oneloa Bay RON RON170915 | 9:20 | 27.6 | 34.8 | 6.69 | 103.0 | 8.17 | 0.49 | 0.52 | 0.50 | 1 | 2 | 5 | 15 | φ | □ | □ |
| Kapalua Bay RFS RFS170915 | 9:55 | 28.5 | 34.4 | 6.73 | 104.9 | 8.15 | 1.73 1.98 DR | 1.27 | 1.46 | 0-1 | 1 | ~40 | ~40 | φ | □ | □ |
| Ka'opala Bay RKO RKO170915 | 10:27 | 28.4 | 34.5 | 6.66 | 103.6 | 8.14 | 6.39 | 6.62 | 7.04 | 0-1 | 1 | φ | φ | φ | □ | ✗ |
| Kahana Vill RKV RKV170915 | 10:57 | 28.3 | 34.4 | 6.97 | 108.3 | 8.13 | 9.53 | 10.4 | 10.6 | 1 | 1 | 2 | 2 | φ | □ | □ |

COASTAL AND ENVIRONMENTAL CONDITION NOTES

| | |
|--|---|
| Most recent Low & High tide Time (Lahaina station) indicate Falling or Rising | Low 5:27 a.m.; Rising High 1:19 p.m. |
| Moon Day (from new) | 25 |
| Cloud Cover (0-8): | 2 |
| Rain Conditions (last 24 hours) | none |
| Wind Direction (Trades? Kona?): | Trades Light |
| Streams flowing? (Y/N) | N-HNL N-RFN |

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

Use back of form if needed.)

RHL - Suspended wood looking particles; Chickens - lots
 RFN - Paololo challenge - canoes getting prepped.

WATER QUALITY SAMPLING:

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 | 5.49 | 57.0 | 625 |
| Pre | 0.08 | 5.47 | 57.0 | 626 |
| Post | 0.04 | 0.06 DR 5.49 | 57.2 | 626 |

| | Total # of samples | Relinquished To:: | Contact |
|----------|-----------------------|-------------------|-----------|
| Sediment | φ | LHS | |
| Nutrient | 7 | LHS | Dana Reed |
| Bacteria | φ | | |

Signature (Team Lead):



Print name here:

GEORGE G. BURKETT JR

| Team: | Notetaker: Last Name, 1 st Initial | Date: |
|-----------|---|---------|
| NR2R - 27 | Reed, D. | 9/15/17 |

| Sample No | Location Name | Sample taken? | Storm sample? | Time | Vol (mL) | Protocol notes | Comments |
|------------------|----------------|-------------------------------------|--------------------------|-------|----------|--|--------------------------|
| Nutrients | | | | | | | |
| RHL170915-N-1 | Honolua Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:00 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RFN170915-N-1 | Fleming North | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 8:45 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RON170915-N-1 | Oneloa Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:20 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RFS170915-N-1 | Kapalua Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 9:55 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RKO170915-N-1 | Ka'opala Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10:27 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RKV170915-N-1 | Kahana Village | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10:57 | 125 | Washed, rinsed syringes; acid washed bottles; 0.7 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| RKO170915-N-2 | Ka'opala Bay | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 10:27 | 125 | Washed, rinsed syringes; acid washed bottles; 0.2 um filters; washed rinsed filter holders | <input type="checkbox"/> |
| Sediment | | | | | | | |
| RHL170915-S-1 | Honolua Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RFN170915-S-1 | Fleming North | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RON170915-S-1 | Oneloa Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RFS170915-S-1 | Kapalua Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RKO170915-S-1 | Ka'opala Bay | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |
| RKV170915-S-1 | Kahana Village | <input type="checkbox"/> | <input type="checkbox"/> | | 500 | | <input type="checkbox"/> |

Signature (Team Lead)

George G. Burdette

Print name here:

George G. Burdette