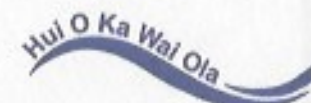


FIELD EQUIPMENT VERIFICATION (PRE/POST A WEEKLY SAMPLING):

Session No:	Verifiers:	Pre date:	Pre time:	Post: Date:	Post time:
18	G. Bui & M. Bui	7/30/18	9:40	8.3.18	10:00

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 1) 19.2 23.3 23.0	23.4	± 1°C of NIST	Within 1°C	
	2	2	n/a	660	19.5 23.4	23.6			
	2	1	n/a		23.1	—			
Salinity				Std	0.13	0.13 33.0	± 3‰, blank	33.95 – 36.05	
	2	2	6/18/18		0.14 33.3	0.15 33.3			
	2	1	6/18/18		0.13 33.2	— —			
Dissolved Oxygen	660			Std	100%	100%	Post-check ± 5 % of pre-check (0-100%)	80 – 120 %	
	2	2	9/19/17		98.7%	98.6			
	2	1	9/19/17		97.6%	—			
pH				Std	7.00 10.01	7.00 10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	2	2	7/30/18		7.02 10.05	7.06 10.09			
	2	1	7/30/18		7.03 10.05	— —			

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



Team	Kamaole	Samplers (Last Name, 1st Initial)	Crawles, Brown, Paulk S m S	Meters and Probes ID		
Session	18			HQ40d: 2		2100Q: 2
Date	07/31/2018			pH: 2	DO: 2	Salinity: 2

Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	Dissolved Oxygen		pH	Turbidity (NTU)			Waves (0-3)	Wind (0-6)	People (within 100 ft)			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Kalepolepo North NKN180731	8:10	27.1	33.8	6.23	94.6	8.17	0.70	0.67	0.63	1	2	6	6	0	<input type="checkbox"/>	<input type="checkbox"/>
Waipuilani Park KWP180731	8:25	27.6	32.0	4.95	75.1	8.06	5.05	5.22	5.27	1	1	0	5	1	<input type="checkbox"/>	<input type="checkbox"/>
Kihei South KKS180731	8:45	28.5	33.7	5.56	86.2	8.14	3.53	3.89	3.84	1	1	1	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Kalama Park KKP180731	9:06	28.3	34.4	6.29	97.8	8.14	3.84	7.59	6.78	1	1	5	6*	0	<input type="checkbox"/>	<input type="checkbox"/>
Cove Park KCP180731	9:20	28.1	32.4	6.29	96.5	8.15	1.35	1.18	1.44	0	1	20	24	0	<input type="checkbox"/>	<input type="checkbox"/>

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high  
Wind: 0: calm; 3: gentle breeze; 6: strong breeze

COASTAL AND ENVIRONMENTAL CONDITIONS	
Most recent tide time (falling or rising)	Low: 11:12 am (falling) High: 5:50 am
Moon day (from new)	18
Cloud cover (0-8)	3
Rain conditions last 24 hrs (0-4)	0
Wind direction (Trades/Kona)	Trades
Streams flowing? (Y/N)	N

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
* surfers.

TURBIDITY VERIFICATION				
	Blank (must be <0.10)	Low	Med	High
Standard	0.08	6.03	54.9	581
Pre-sampling	0.05	5.78	53.9	574
Post-sampling	0.05	5.76	53.9	573

CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	George BARNETTE
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:
<i>[Signature]</i>	George B. BARNETTE




Team	Kamaole	Samplers (Last Name, 1st Initial)	GAWES, S BROWN, M PAGEUK, S
Session	18		
Date	07/31/2018		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN180731-N-1	Kalepolepo North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP180731-N-1	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS180731-N-1	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP180731-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:06	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP180731-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):

Printed Name:


 GEORGE C. BROWN



Team	Makena	Samplers (Last Name, 1st Initial)	Tina Wellberger, Jess Dunning, Sheryl Fries, Lori Towden, James Strickland - OBSERV	Meters and Probes ID		
Session	18			HQ40d: 2	2100Q: 2	
Date	08/01/2018			pH: 2	DO: 2	Salinity: 2


Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	Dissolved Oxygen		pH	Turbidity (NTU)			Waves (0-3)	Wind (0-6)	People (within 100 ft)			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Makena Landing MML180801	8:05	27.1	34.8	6.47	98.6	8.18	1.23	1.73	1.03	1	0	1	0	0	<input type="checkbox"/>	<input type="checkbox"/>
S Maluaka Beach MMB180801	8:35	27.6	35.2	6.45	99.6	8.18	1.34	1.40	1.35	1	0	3	13	0	<input type="checkbox"/>	<input type="checkbox"/>
Oneuli MON180801	8:55	27.7	35.2	6.63	102.3	8.18	4.22	4.49	4.28	2	1	0	4	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi-Kinau North MAN180801	9:25	27.4	35.1	7.17	110.2	8.19	1.08	1.14	1.02	2	4	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi-Kinau South MAS180801	9:35	27.5	34.7	6.55	100.8	8.15	0.90	0.86	0.99	2	3	3	11	0	<input type="checkbox"/>	<input type="checkbox"/>

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high  
Wind: 0: calm; 3: gentle breeze; 6: strong breeze

COASTAL AND ENVIRONMENTAL CONDITIONS	
Most recent tide time (falling or rising)	Low: 11:44 am (falling) High: 6:36 am
Moon day (from new)	19
Cloud cover (0-8)	5 (partly cloudy)
Rain conditions last 24 hrs (0-4)	
Wind direction (Trades/Kona)	0/3
Streams flowing? (Y/N)	

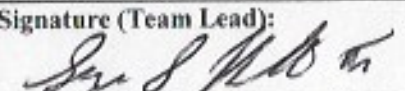
NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
We took the wrong bottle + collected the turbidity sample in the nitrogen nutrient bottle. We transferred the sample into the clean bottle, rinsed the nitrogen bottle 3x + poured out as much water as possible + used it anyway.

because we didn't have a spare. sorry!!

We'd like a spare of everything just in case. 

TURBIDITY VERIFICATION				
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.03	54.9	581
Pre-sampling	0.08	5.77	53.8	574
Post-sampling	0.03	5.75	53.7	572

CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	GEORGE BARNETT
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:
	GEORGE G. BARNETT



Team	Makena	Samplers (Last Name, 1st Initial)	WILSON, T. DUNN, J. FRAS, S. LOWEN, L. STICKLAND, J. OBSERVING
Session	18		
Date	08/01/2018		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
<b>Nutrients</b>							
MML180801-N-1	Makena Landing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB180801-N-1	South Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON180801-N-1	Oneuli	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN180801-N-1	Ahihi-Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS180801-N-1	Ahihi-Kinau South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
<b>Sediments</b>							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):



Printed Name:

George C. Dunne



Team	North Kihei	Samplers (Last Name, 1st Initial) <i>Flo Baker</i> <i>SCOTT SPLOAN</i> <i>Callinan, L.</i>	Meters and Probes ID		
Session	18		HQ40d: 2		2100Q: 2
Date	08/02/2018		pH: 2	DO: 2	Salinity: 2

Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	Dissolved Oxygen		pH	Turbidity (NTU)			Waves (0-3)	Wind (0-6)	People (within 100 ft)			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Haycraft Park NHP180802	8:15	26.2	34.7	6.47	97.2	8.13	3.62	3.47	3.56	2	3	3	2	0	<input type="checkbox"/>	<input type="checkbox"/>
Kealia Pond NKP180802	8:45	26.7	35.6	6.54	99.6	8.20	1.20	1.22	1.27	2	3	0	2	0	<input type="checkbox"/>	<input type="checkbox"/>
Sugar Beach NSB180802	9:05	27.4	35.4	6.48	99.6	8.18	3.52	3.88	3.40	1	2	0	6	0	<input type="checkbox"/>	<input type="checkbox"/>
Kihei Canoe Club NKC180802	9:20	27.5	35.1	6.45	99.2	8.18	3.45	3.57	3.97	2	3	0	20	0	<input type="checkbox"/>	<input type="checkbox"/>
Mai Poina Oe Iau NMP180802	9:39	27.4	33.2	6.42	97.6	8.13	1.96	2.22	2.21	1	2	0	1	0	<input type="checkbox"/>	<input type="checkbox"/>

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high  
Wind: 0: calm; 3: gentle breeze; 6: strong breeze

COASTAL AND ENVIRONMENTAL CONDITIONS	
Most recent tide time (falling or rising)	Low: 11:02 am High: 5:42 am (F)
Moon day (from new)	21
Cloud cover (0-8)	1
Rain conditions last 24 hrs (0-4)	0
Wind direction (Trades/Kona)	Trades
Streams flowing? (Y/N)	N

<b>NOTES AND COMMENTS</b> (trends, equipment problems, errors, concerns). Use the back of the form if needed.
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TURBIDITY VERIFICATION				
	Blank (must be <0.10)	Low	Med	High
Standard	0.03	6.03	54.9	581
Pre-sampling	0.04	5.76	53.7	574
Post-sampling	0.04	5.78	54.1	575

CHAIN OF CUSTODY INFORMATION			
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	Sofia
Bacteria	-	-	-

Signature (Team Lead): <i>Flo Baker</i>	Printed Name: Sofia de la Cruz
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Team	North Kihei	Samplers (Last Name, 1st Initial)	Flo Bahr Scott Spkan Callnam, L.
Session	18		
Date	08/02/2018		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
<b>Nutrients</b>							
NHP180802-N-1	Haycraft Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP180802N-1	Kealia Pond	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB180802-N-1	Sugar Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC180802-N-1	Kihei Canoe Club	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP180802-N-1	Mai Poina Oe Iau	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
<b>Sediments</b>							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):

Sofia de la Sota

Printed Name:

Sofia de la Sota



Team	Wailea	Samplers (Last Name, 1st Initial)  Rindge, Holly Hecht, Harry Strickland, James  Seraph D'Alerta Alfred Wolf	Meters and Probes ID		
Session	18		HQ40d: 2	2100Q: 2	
Date	08/03/18		pH: 2	DO: 2	Salinity: 2

Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	Dissolved Oxygen		pH	Turbidity (NTU)			Waves (0-3)	Wind (0-6)	People (within 100 ft)			TSS	Nutrient duplicate
				(mg/L)	(%)							water	beach	camp		
Kilohana Dr WKD180803	7:53	26.6	35.3	6.58	100.0	8.20	1.66	1.17	1.29	1	0	0	13	0	<input type="checkbox"/>	<input type="checkbox"/>
Keawakapu Beach WKB180803	8:12	26.8	35.2 <del>35.3</del>	6.56	99.8 <del>100.3</del>	8.19	1.42	1.08	1.18	1	0	14	22	0	<input type="checkbox"/>	<input type="checkbox"/>
Ulua Beach WUL180803	8:32	27.0 <del>26.8</del>	35.4	6.56	100.3	8.20	0.89	0.88	0.77	1	0	18	35	0	<input type="checkbox"/>	<input type="checkbox"/>
Palauea WPL180803	8:55	27.4	35.4	6.54	100.5	8.20	1.72	1.68	1.58	1	1	4	9	0	<input type="checkbox"/>	<input type="checkbox"/>
Poolenalena WPO180803	9:12	27.5	35.4	6.56	101.3	8.22	0.27	0.23	0.25	1	1	1	22	0	<input type="checkbox"/>	<input type="checkbox"/>

Waves: 0ft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high  
Wind: 0: calm; 3: gentle breeze; 6: strong breeze

## COASTAL AND ENVIRONMENTAL CONDITIONS

Most recent tide time (falling or rising)	Low: 11:53 am High: 7:08 am (F)
Moon day (from new)	22
Cloud cover (0-8)	1
Rain conditions last 24 hrs (0-4)	0
Wind direction (Trades/Kona)	Trade
Streams flowing? (Y/N)	N

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).  
Use the back of the form if needed.

## TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.03	54.9	581
Pre-sampling	0.06	5.74	53.8	572
Post-sampling	0.06	5.95	53.6	573

## CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	Sofia
Bacteria	-	-	-

Signature (Team Lead):

Jana Goh

Printed Name:

Sofia de la Soza



## Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Wailea	Samplers (Last Name, 1st Initial)	Rindge, H Hecht, H Strickland, J	D'Aleuta, S Wolf, A
Session	18			
Date	08/03/2018			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
WKD180803-N-1	Kilohana Dr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB180803-N-1	Keawakapu Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL180803-N-1	Ulua Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL180803-N-1	Palauca	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO180803-N-1	Poolenalena	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):

Sofia

Printed Name:

Sofia Oka Gatz