



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

Session No:	Verifiers:	Pre date:	Pre time:	Post Date:	Post time:
Sm 3 2	Sofia	12/09/17	9:40 am	12/06/17	11:00

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	20.9	20.9	26.2 25.9		± 1°C of NIST	Within 1°C	
	1	S-1	n/a		21.2		26.2				
	1	S-2	n/a		21.1					NOT USED	
Salinity				Std	0.13	33.3	0.13	23.3	± 3%, blank	33.95 – 36.05	
	1	1	9/19/17		0.13	33.6	0.14	33.8			
	1	2	11/6/17		0.14	34.2*				NOT USED	
Dissolved Oxygen				Std	100 %		100 %		Post-check ± 5 % of pre-check (0-100%)	80 – 120 %	
	1	1			98.9		98.2				
	1	2			99.4					NOT USED	
pH	X	X		Std	7.00	10.01	7.00	10.01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	1	1	11/20/12		7.00	10.01	7.04	10.06			
	1	2	11/20/12		7.00	10.01				NOT USED.	

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

* Sal #2: 34.2 in a second reading - while aspirating (twice)

Team/ Session	Samplers Last Name, 1st Initial		Instrument #	pH #	DO #	Salinity #	Date:
Kamaole	Notetaker: <i>GRAVY Scott S</i>		40d: 1	1	1	1	12/05/17
3	Others: <i>Steve Paselt</i> <i>Dan Howard</i> <i>Andrew Quinn</i> <i>Sofia</i>		2100q: 1				

Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves ft	Wind	People (within 100 ft)			TSS ?	Nutrient Duplicate ?
												In Water	Beach	Camp		
1 Waipuilani Park KWP171205	8:06	23.2	33.2	6.48	91.5	8.13	7.91 7.20	7.71	7.79	1-2	3	0	3	1	<input type="checkbox"/>	<input type="checkbox"/>
2 Kihei South KKS171205	8:40	23.7	33.7	6.33	90.7	8.15	4.91 5.85	5.53	5.81	1-2	3	0	6	0	<input type="checkbox"/>	<input type="checkbox"/>
3 Kalama Park KKP171205	9:08	23.2	34.5	6.46	91.8	8.16	5.64 5.79	6.95	6.32	1-2	4	0	4	0	<input type="checkbox"/>	<input type="checkbox"/>
4 Cove Park KCP171205	9:20	24.2	33.3	6.33	91.0	8.13	1.88	1.98	2.20	1	3	0	8	0	<input type="checkbox"/>	<input type="checkbox"/>
5 Kamaole I KKO171205	9:40	24.3	35.2	8.14	97.0	8.19	2.09 1.56	2.07	2.02	1-2	3	0	7	0	<input type="checkbox"/>	<input type="checkbox"/>
6 Kamaole III KKT171205	10:00	24.7	35.6	6.67	98.1	8.19	0.62 0.41	0.55	0.57	2	3	3	6	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: 11:59 AM High: 5:57 AM (F)
Moon Day (from new)	18
Cloud Cover (0-8):	3
Rain Conditions (last 24 hours)	0
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.)

*RAIN! Occasional sprinkle site 1, 2,
KKP wind = 4-5 parking lot & at beach = 3
KCP wind chop water*

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	6.0	56.2	576
Pre	0.07	5.96	56.3	577
Post	0.07	5.98	56.3	577

	Total # of samples	Relinquished To:	Contact
Sediment	-	-	-
Nutrient	-	NMS	Sofia
Bacteria	-	-	-

Signature (Team Lead):

Sofia

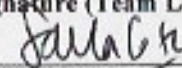
Print name here:

Sofia de la Riva

WATER QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 st Initial	Date:
Kamaole 3	Gravir, Scott		12/05/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
KWP171205-N-1	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:55	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKS171205-N-1	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:40	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKP171205-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:00	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KCP171205-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:20	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKO171205-N-1	Kamaole I	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:40	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
KKT171205-N-1	Kamaole III	<input checked="" type="checkbox"/>	<input type="checkbox"/>	10:00	125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
Sediment							
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):

Print name here:

Sofia de la Sota

Team/ Session	Samplers Last Name, 1st Initial						Instrument #	pH #	DO #	Salinity #	Date:					
Makena	Notetaker: <i>Fries, S.</i>						40d:				12/06/17					
3	Others: <i>Alfred, Tina, Lory</i>						2100g:	<i>#</i>								
Location Name	Time	Temp (C)	Sal (ppt)	DO (mg/L)	DO Sat (%)	pH	Turbidity (NTU)			Waves	Wind	People (within 100 ft)			TSS ?	Nutrient Duplicate ?
Makena Landing MML171206	8:05	23.9	35.4	6.62	95.4	8.18	0.51 0.56	0.51 0.72	0.52 0.78	0'	0	0	0	0	<input type="checkbox"/>	<input type="checkbox"/>
South Maluaka Beach MMB171206	8:30	24.2	35.6	6.60	96	8.20	0.70 0.96	0.70 0.64	0.70 0.70	1'	0	4	1	0	<input type="checkbox"/>	<input type="checkbox"/>
Oneuli MON171206	(closed due to downed trees)						1.19 0.91	0.92 1.34	1.55 1.14						<input type="checkbox"/>	<input type="checkbox"/>
Makena Beach Shoreline MBS171206	(closed due to downed trees)														<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau North MAN171206	9:05	24.2	35.5	6.88	100.1	8.12	1.19	1.34	1.14	0	0	2	0	0	<input type="checkbox"/>	<input type="checkbox"/>
Ahihi Kinau South MAS171206	9:35	24.8	35.8	6.73	99	8.20	0.70	0.75	0.70	1'	1	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: <i>12:59 pm</i> High: <i>6:44 AM (F)</i>
Moon Day (from new)	<i>19</i>
Cloud Cover (0-8):	<i>6</i>
Rain Conditions (last 24 hours)	<i>none</i>
Wind Direction (Trades? Kona?):	<i>trades</i>
Streams flowing? (Y/N)	<i>no</i>

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

** Wind event the day before
testing lead to the above
2 closings*

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		6.00	56.2	576
Pre	0.09	5.93	55.9	578
Post	0.06	5.99	56.2	577

	Total # of samples	Relinquished To:	Contact
Sediment	-	-	-
Nutrient	<i># 4</i>	NMS	Sofia
Bacteria	-	-	-

Signature (Team Lead):

Schulz

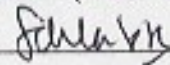
Print name here:

Sofia de la Sota

WATER QUALITY SAMPLING:

Team:	Notetaker:	Last Name, 1 st Initial	Date:
MAK - 3	Lowder, Vary		12/06/17

Sample No	Location Name	Sample taken?	Storm sample?	Time	Vol (mL)	Protocol notes	Comments
Nutrients							
MML171206-N-1	Makena Landing	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MMB171206-N-1	South Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MON171206-N-1	Oneuli	<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MBS171206-N-1	Makena Beach Shoreline	<input type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MAN171206-N-1	Ahihi Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
MAS171206-N-1	Ahihi Kinau South	<input checked="" type="checkbox"/>	<input type="checkbox"/>		125	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	<input type="checkbox"/>
Sediment							
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>		500		<input type="checkbox"/>

Signature (Team Lead):

Print name here:

Sofia de la Jota