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



Session No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post Date: Post Time: 48 T. Struck , J. Sprickand 06/29/20 10:00 T. Stark , J. Struck and 07/3/20 10:00 am

QA/QC Check	Inst #	Probe #	Last Cal Date			RE: tion Value		OST: tion Value	Acceptable Range	Comments/ Notes	QA?		
Temperature	NIST	n/a	n/a	Std Val	NIST 33.0 <sub>C</sub>	NIST 30.9℃	NIST °C	NIST 28.7 <sub>°C</sub>	± 0.6 °C of NIST	Compare to NIST Std value in tap water			
	2	ı	n/a		32.8								
	2	2	n/a			30.5		28.5					
Salinity			3 months	Std Val	Tap water  O <sub>4</sub> i3	Salin Std 2 3/20 date 33-1 ppt	Tap water 0.13	Salin Std 1/3/20late 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle			
	2	l	5/4/20		0.10	33.1							
	2	2	5/4/26		0.11	35.0	0.11	35.0		used satinity STD ble van on	rofta veeal		
Dissolved Oxygen			<u>1 year</u>	Std Val	100%		100%		± 5 %				
	2	t	10/18/19		95.	1%							
	2	2	10/18/19		100.	5%	99.	,40%					
рН			3 weeks	Std Val	pH 7.00	pH 10.00	pH 7.00	pH 10.00	± 0.1 pH of pH std value	Compare to Manufacturer pH Std value on bottle			
	3/2	3	0/29/20		6.93	9.95							
	¥2	4	6/29/20		7-02	10.02	7.04	10.04			1		
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 NTU	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value			
	2	n/a	5/4/20		0.04	6.47	0.05			STDS: L: 6.45			
	-	n/a						-					

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

\* Delay times are ok?

\* Other equipment issues?

Team	Kamaole	Samplers	Striuklan, J	Meters and	Probes ID		
Session	Session 48 (Last Name, 1st Initial)			HQ40d: 2	HQ40d: 2		
Date	6/30/20			pH: 4	DO: 2	Salinity: 2	

	G4			Salinity	Dissolved	l Oxygen					Entero	People	(within	100 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		CFU	water	beach	camp
Kalepolepo North NKN200630	N	8:50	26.5	31.9	6.18	91.9	810	5.83	5.72	5,73	0	0	ı	Ø
Waipuilani Park KWP200630	N	8:45	26.7	33.8	6.45	97.3	8.06	20.3	21.0	20.4	10	0	2	Ö
Kihei South KKS200630	2	9:25	27.5	34.1	6.49	99.5	8.10	13.4	14.1	13.7	0	0	1	0
Kalama Park KKP200630	~	9:45	27.5	34.5	6.76	103.6	8.17	9.37	11.3	10.6	6	3	1	0
Cove Park KCP200630	>	10-10	28.0	32.5	6.91	105.7	8.14	9.92	10-1	9.95	31	20	5	0
Mai Poina Oe Iau NMP200630	2	10:40	27.6	33.9	6.68	102.6	8.27	10.4	9.0	9.84	0	6	3	Ò

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

KKS- Water much clearer 20' from Shore

KKP- Z surfers coming to Shore next to sampling

All sites - no wind.

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.45	58.9	502
Pre-sampling	0.04	6.47	58.9	603
Post-sampling	0.04	6.46	59.2	601

CHAIN OF CUSTODY INFORMATION									
	# of samples	Relinquished to	Contact						
Sediment	-	-	-						
Nutrients	6	NMS	J. Strickland						
Bacteria	6	NMS	J. Strickler						

Signature (Feam Lead):	Printed Name:
(1 8/	James (tradel)
Total And	COME OTTUNION

Team	Kamaole	Samplers	Strickland, J	
Session	48	(Last Name, 1st Initial)		
Date	6/30/20			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN200630-N-1	Kalepolepo North	ГД		8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP200630-N-1	Waipuilani Park	ď		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS200630-N-1	Kihei South	d		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP200630-N-1	Kalama Park	ď		9:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP200630-N-1	Cove Park	4		10:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP200630-N-1	Mai Poina Oe Iau	tt/		10:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments												
				500 m	1							
				500 m	1							
				500 m	1							

Signature (Team Lead):	Printed Name:	
Sa /2	Jones Strickland	
	*	

Team	Makena	Samplers	Stricklond, J	Meters and Probes ID				
Session	48	(Last Name, 1st Initial)		HQ40d: 2	21000	2100Q: 2		
Date	7/01/20			pH: 4 D	O:21	Salinity: 2		

	Streams	Time		Salinity	Dissolved	Oxygen	pН		Turbidity		Entero	People	People (within 100 ft	
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal	(NTU)		CFU	water	beach	camp	
Makena Landing MML200701	~	8:50	26.2	34.3	670	100.5	8.14	8.07	6.20	7.47	0	0	0	0
S Maluaka Beach MMB200701	N	8:55	27.2	33.9	6.69	101.8	8.12	1.36	1.24	1.34	0	0	0	0
Oneuli MON200701	N	9:25	27.5	34.1	6.99	107.3	8.15	1.34	1.73	1.66	0	0	0	0
Ahihi Kinau North MAN200701	~	9:55	26.9	35,0	7.18	109.6	8.15	1.67	1.47	1.75	0	σ	0	0
Ahihi Kinau South MAS200701	~	10:30	27.5	75.1	6.69	103.3	8.14	1.13	1.21	1.01	0		2	0

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

TURBIDITY VER	RIFICATION		Fig. 169 Table	
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.45	58.9	602
Pre-sampling	0.05	6.47	58.7	603
Post-sampling	0.05	6.46	59.5	602

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	<u>-</u>	-	-
Nutrients	5	NMS	J. Strewood
Bacteria	5	NMS	J. STRIWON

Signature (Team Lead):	Printed Name:	_
ph 8/2	James Strikland	

Sites with streams/outflows: Makena Landing

Team	Makena	Samplers	StrichlandiJ	
Session	48	(Last Name, 1st Initial)		
Date	7/01/20			

Sample ID	ample ID Location Name		Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
MML200701-N-1	Makena Landing	ь		8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB200701-N-1	South Maluaka Beach	4		9:55	125 ml	Washed ringed stringes; acid washed	
MON200701-N-1	Oneuli	e		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN200701-N-1	Ahihi-Kinau North			Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			
MAS200701-N-1	Ahihi-Kinau South	t d		10:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:
Jan 84	James Strickland
/	

Team	Samplers ) Striction		Meters and Probes ID			
Session	48	(Last Name, 1st Initial)	100	HQ40d: 2		2100Q: 2
Date	07/02/20		1. Stark	pH: 4	DO: 2	Salinity: 2

				Salinity	Dissolved	l Oxygen					Peop	le (within 1	00 ft)	
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp	CFL
Maalaea Harbor NMH200702	7	8:10	25.5	34.2	6.33	97.8	8.12	2.58	2.52	3.05	0	0	0	0
Maalaea Condos NMC200702	N	8:25	25.8	73.1	7.68	113.5	8.15	2.92	3,09	1.79	0	0	0	146
Haycraft Park NHP200702	7	8:49	24.1	35.0		102.6	B.16	4.51	4.23	4.90	0	7	50	0
Kealia Pond NKP200702	N	9:05	24.2	35.2	6.72	101.4	8.17	21.79	1.53	1.54	13	$\rightarrow$	4	0
Sugar Beach NSB200702	7	9:25	20.7	34.9	6.71	101.8	8.10	3.73	3.56	3.98	0	2	8	0
Kihei Canoe Club NKC200702	N	9:45	24.7	34.7	6.69	10.6	8.15	14.6	14.7	13.9	3	5	0	20

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

NMC: Stuff visible floating in sample coll

- usually 80 units full ; now only ~ 15

units; see mai Rutaua, ulua comming
in close; lawticle

NHP- 9 TENTS

NKP- 4 TENTS NKC-murky water

Sites with streams/outflows: Kealia Pond

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med -	High
Standard	0.05	6.45	58.9	602
Pre-sampling	0.06	6.47	59.0	600
Post-sampling	0.04	6.45	59.1	601

CHAIN OF CUS	STODY INFORMATI		
Sediment	# of samples	Reinfuished to	Contact
Nutrients	6	MMS	T. Stark
Bacteria	6	NM-S	T. Stank

Signature (Team Lead):	Printed Name:
Linalth	Tiara Stark

Team	North Kihei	Samplers	Strickland, J
Session	48	(Last Name, 1st Initial)	STORK, T
Date	07/02/2020		0 101 11 1

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH200702-N-1	Maalaea Harbor	<b>₽</b>		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC200702-N-1	Maalaea Condos	<b>₽</b>		8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP200702-N-1	Haycraft Park	ø		8:49	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP200702-N-1	Kealia Pond	ď		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB200702-N-1	Sugar Beach	4		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC200702-N-1	Kihei Canoe Club	U		9:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:	
In Skie	Jame Strickland	
, , ,		

Team Wailea Samplers
(Last Name, 1st Initial)

Date 07/03/20

T. Starte J. Strichland Meters and Probes ID
HQ40d: 2 2100Q: 2
pH: 4 DO: 2 Salinity: 2

	Streams	Time		Salinity	Dissolved	d Oxygen	pН		Turbidity		Peop	le (within 1	00 ft)
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal		(NTU)		water	beach	camp
Kilohana Dr WKD200703	N	8:10	26.5	34.9	6.71	101.4	8.14	1.98	1.79	2.28	4	11	0
Keawakapu Beach WKB200703	N	8:30	27.0	34.9	6.70	102.2	8.14	6.68	0.67	0.63	0	15	O
Ulua Beach WUL200703	7	8:55	27.1	34.6	6.63	101.4	8.10	3.32	2.49	2.07	2	12	0
Palauea WPL200703	7	9,20	21.2	34.7	6.76	103.4	8.17	2.08	2.49	2.93	7	-7	30
Poolenalena WPO200703	7	9:41	27.4	34.9	6.68	102.7	8.17	1.00	1.36	1.15	17	$\rightarrow$	65

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

WRD-down on beach
WPL-5 TENTS/10 FISHING POLES
WPO-15 TENTS/14 FISHING POLES

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	004	6.45	58.9	602
Pre-sampling	0.07	6.48	58.7	602
Post-sampling	0.05	6.46	59.0	601

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	T. Stark
Bacteria			

Signature (Team Lead):

Tree.

**Printed Name:** 

Tiara Stark

Team	Wailea	Samplers	T. Stark	
Session	48	(Last Name, 1st Initial)	J. Strickland	
Date	7/03/2020			

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
WKD200703-N-1	Kilohana Dr	Ą		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB200703-N-1	Keawakapu Beach	ď		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL200703-N-1	Ulua Beach	6		8:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL200703-N-1	Palauea	d		9:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO200703-N-1	Poolenalena	Þ		9:41	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	
		500 ml	
		500 ml	
		500 ml	,
		500 ml	

Signature (Team Lead):	Printed Name:
In &	Jones Strickland
/, -	