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

HUI O Ka Wal Ola

Session No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post Date: Post Time: 81 M. Sharpe, T. Starle 5 31 22 9:30am L. Yannell, M. Sharpe, T. Starle 4/3/22 10:15 AM

QA/QC Check	Inst #	Probe	Last Cal Date			RE: tion Value		OST: tion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 27.0℃	<u>NIST</u> _ <b>26.7</b> ℃	NIST — °C	<u>NIST</u> <b>30.</b>	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	I	2	8/0/16/22		27.2						
n et e e e e e e e e e e e e e e e e e e	1	3				26.8		30.9		, , , , , , , , , , , , , , , , , , ,	
Salinity			3 months	Std Val	Tap water 0.13	Salin Std 5 317 date 33.5 ppt	<u>Tap water</u> 0 ⋅ 13	Salin Std 5/31/20 late 33.5 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	2	5/31/22		0.16	33.6	_		V	Salinity 5 tol: 5 31 22 33.5 ppt	
	1	3	5/31/22		0.17	33.5	0.18	33.5			
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	1	١	12/16/21		98.	2	97.	9			
200	1	2			97.	7					
рН			3 weeks	Std Val	pH 7.00	pH 10.00	рН 7.00	pH 10.00	± 0.1 pH of pH std value	Compare to Manufacturer pH Std value on bottle	
	١	5	5/31/22		7.01	(0.00	7.01	10.01	1	PH4 exp 12/2023 PH7 exp 03/2023	
	1	4	5/31/22		7.03	10.00				P# 10 Exp 3 2023	
Turbidity	*	8	3 months Text	Std Val	<u>BLANK</u> <0.1	<u>LOW 1-10</u> NTU	<u>BLANK</u> <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	1/21/22		0.06	6.36	0.09	6.35		Low: 6.34 High: 628	
	2	n/a	7/21/22		0.06	6-20	-			Low: 6.19	

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

\* Delay times are ok?

\* Other equipment issues?

Lab: NMS

Team	Wailea-Makena	Samplers	B.	Sousa, J. Dunning, MMartella	Meters and Pro	bes ID	17 94	
Session	81	(Last Name, 1st Initial)			HQ40d: 1		2100Q:	1
Date	06/01/2022	,			pH: 5	DO: 1		Salinity 3

			The state of the s	Salinity	Dissolved Oxygen					People (within 100 ft)			
Location Name Sample ID	Freshwater 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	
Cove Park KCP22060 <b>7</b>	N	8:18	26.7	32.1	6,58	98.5	8.07	7.55	7.60	8.30	8	.0	2
S Maluaka Beach MMB220601	N	9:04	25,8	34.9	6,50	98.4	8.12	2,07	2,35	2.21	4	26	Ø
Ahihi Kinau North MAN220601	N	9:30	25.5	35.4	6.80	101.4	8.14	2.04	2,07	2.26	Ø	Ø	Ø
Ahihi Kinau South MAS220601	N	9:46	25.4	35.0	6.63	99.1	8.14	2.99	4.33	3.15	Ø	Ø.	Ø

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

4th reading for KCP 9,59

High surf advisor of Ssicle for last wed at MAN water had been up or soad, earlier 4th reading at MAS-turbidity 3.75 High water mark to fence at MAS

Sites with	potential for	freshwater	flow:	Cove Park

TURBIDITY VERIFICATION											
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)							
Standard	, vle	6.34	56.8	628							
Pre-sampling	0.06	6.35	57.5	629							
Post-sampling	0.08	6.29	57.5	629							

CHAIN OF CUSTO	ODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	Ч	NMS	T. Stark
Bacteria	-	-	-

Signature (Team Lead):

Printed Name:

Tava Sturk

Team Wailea-Makena	Samplers	B. Sowa
Session 81	(Last Name, 1st Initial)	J. Dunning
Date 06/9/2/2022 .S.		M. Martella

Sample ID	Location Name	Sample taken?	Time Volume Ductoral Notes		Protocol Notes	Comments	
Nutrients :					Service of		
KCP220601-N-1	Cove Park			8:18	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB220601-N-1	S Maluaka Beach			9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN220601-N-1	Ahihi Kinau North	4		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS220601-N-1	Ahihi Kinau South	□     ✓		9:46	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments					
W. Ch. W.				500 ml	
77			7,00	500 ml	
				500 ml	
	1			500 ml	

Signature (Team Lead):	Printed Name:
2 A A	
2000 Value	Tiava Stark
4	11000 01 3100.

Team	North Kihei	Samplers	y. St. Louis, A wolf,	L Yannul	Meters and Pro	bes ID	Company and the second second
Session	81	(Last Name, 1st Initial)	0 3303 3177	o journ son	HQ40d: 1	2100Q	: 1
Date	06/02/2022				pH: 5	DO: 1	Salinity:

				Salinity	Dissolved	Oxygen				Peopl	e (within	100 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turk (N	water	beach	camp	
Maalaea Harbor NMH220602	N	07:57	25.3 24.80	34,8	6.28	92,9	8.11	3.26 3.3	3,28	0	0	0
Maalaea Condos NMC220602	N	08:19	25,3	34.0	7.01	103,5	8.20	2.65yn 3.14 2.	43 2.40	D	2	0
Haycraft Park NHP220602	N	0844	25.2	35,0	6.69	99.2	8.16	11.9 11.5	11.5	0	7	-015
Kealia Pond NKP220602	N	0909	25.5	35.2	6.66	99,3	8.15	1.99 2.0	2,26	0	0	Ø
Kihei Canoe Club NKC220602	N	0925	26.2	34.7	6.64	99,9	8.09	33.5 36	.7 36.2	6	٥	0

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

NMH-Clear Blue Skis, sunny, south swell, Parking Tot wet due to south swell, Boat with people getting on near sample site.

NMC-South swell, very rocky entry (low tide),

Surfers way out in the distance, light wind,

water looks green brown.

NHP- Big waves crashing on to shore, rocks soling surfers in the water bit far more than 100ft

from site location. Families Playing on the beach light wind water looks brown lareen by.

NEC-Water calmer. One person walking by.

Sites with potential for freshwater flow: Maalaea Harbor, Maalaea

Condos, Kealia Pond, Kihei Canoe Club

TURBIDITY VERIFICATION										
u 1768 (27)	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)						
Standard	0.07	6.34	56.8	628						
Pre-sampling	0.05	6.44	57.0	630						
Post-sampling	0.03	6.34	57.1	629						

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients			
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:	
ymazer	Ylmia-Stlauis	

NKC-Water brown, mild swell, Canoe Club meeting (large group) 32.1

Team	North Kihei	Samplers	Y. St. Louis,	A. Wolf, 1	Yannel	١	
Session	81	(Last Name, 1st Initial)					2
Date	06/02/2022						

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH220602-N-1	Maalaea Harbor	Ø		7 :57	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		
NMC220602-N-1	Maalaea Condos	Ø		8:19	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP220602-N-1	Haycraft Park	◪		8:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP220602-N-1	Kealia Pond	Ø	0	9:09	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		
NKC220602-N-1	Kihei Canoe Club	Ø		9: 25	125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		

Sediments				
		-«·	500 ml	
			500 ml	
			500 ml	
			500 ml	

Signature (Team Lead):	Printed Name:	
	M. SHARPE	

Team	Kamaole	Samplers	Linannell, T. Stark, S. Graves	Meters and Pro	bes ID		
Session	81	(Last Name, 1st Initial)		HQ40d: 1		2100Q:	1
Date	06/03/2022			pH: 5	DO: 1		Salinity: 13

			_	Salinity	Dissolved	Oxygen		Turbidity (NTU)			People (within 100 ft)						
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal			(NTU		8.3 (NTU)		1			water
Kalepolepo North NKN220603	7	8:10	24.9	31.4	6.55	94.6	8.10	12.0	11.0	11.6	Ø	ø	ø				
Waipuilani Park KWP2200603	2	8:40	24.7	32.3	6.51		8.06	12.5	12.7	12.9	1	3	Ø				
Kihei South KKS220603	7	9:00	25.7	32.5	6.41	94.5	8.07	19.5	19.8	19.8	Ø	4	ØI				
Kalama Park KKP220603	N	9:25	25.7	34.6	6.89	99.7	8.15	8.518	10.5	10.1	2	3	0				

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

NKN-2 cance teams went out 1-2 min before sample; windy; brown water

XMP- Widy

KVS- unsure 16 peachages is camping ornof ho fent but lots of other items). Update: steis extrong an Veren. \* 2nd temp reading: 25.7

KKP-1 dog on beach; very brown; windy near-ampling area \* 47h Turbidity reading

Sites with potential for freshwater flow: All

TURBIDITY VERIFICATION									
,	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)					
Standard	0.03	4.34	56.8	628					
Pre-sampling	0.08	6.36	57.3	630					
Post-sampling	0,09	6:30	57.2	629					

CHAIN OF CUSTODY INFORMATION									
	# of samples	Relinquished to	Contact						
Sediment	-	-	-						
Nutrients	4	NMS	Liz Yannell						
Bacteria	-	-	-						

Signature (Team Lead): **Printed Name:** annell

Team	Kamaole	Samplers	Yannell, L.	Stark, T.	
Session	81	(Last Name, 1st Initial)	Graves, S.		
Date	06/03/2022		<u>.</u>		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients			NOW.				
NKN220603-N-1	Kalepolepo North	Q		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP220603-N-1	Waipuilani Park	ত		8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS220603-N-1	Kihei South	ď		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP220603-N-1	Kalama Park	ď		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			e e e e e e e e e e e e e e e e e e e		PARTITION DAY
				500 ml	
				500 ml	 A
	* * * * * * * * * * * * * * * * * * *			500 ml	, Ma
				500 ml	

$\circ$	(Team Lead):	Printed Name	Jannell