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

HIJI O Ka Wai Ola

Session, No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post Date: Post Time: 4 | 21 | 10:45 am

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: ion Value		OST: tion Value	Acceptable Range	Comments/ Notes QA
Temperature	NIST 1821	n/a	n/a	Std Val	<u>NIST</u> 26.0°C	<u>NIST</u> 25.9 ℃	26.2 <sub>C</sub>	NIST — °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water
	1	/	n/a		25.7		26.0			pre lab temp 26.3 post lab temp 26.3
	1	2	n/a			25.6				post lab temp 26.8
Salinity			3 months	Std Val	Tap water	Salin Std UZ Zodate 35, Oppt	<u>Tap water</u> 0.30	Salin Std 11 2 20 date 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	/	/	2/15/21		0.31	35.1	0.31	35.2		
	1	Z	415/21		0.3/	36.5				
Dissolved Oxygen			1 year	Std Val	10	0%	10	00%	± 5 %	
	/	1	11/2/20		qu	9.1		1.00		
	/	2	11/2/20		99	1,3				
pН			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	3/29/21		6.94	9.98	7.01	10.01		
	1	4	3/29/21		7.02	10.00			8	м
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 NTU	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value
	/	n/a	3/8/21		0.06	6.62	0.06	6.61		
	2	n/a	3/8/21	7	0.04	6.53				

QA:

\* Are pre- and post within one week?

\* Delay times are ok?

\* Other equipment issues?

Std #16.66

Lab: DHS

Team	Kamaole	Samplers	Horry Hecht	97.3	Meters and	Probes ID		
Session	61	(Last Name, 1st Initial)	Margre	97.9	HQ40d: 1		2100Q: 1	
Date	3/30//21		Rick	99.0	pH: 3	DO: 1	Salinity: 1	

	Streams	T.:		Salinity .	Dissolved	Oxygen	»U		Turbidity		Entero	People	e (within 1	100 ft)
Location Name Sample ID	Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	(NTU)		CFU	water	beach	camp	
Kalepolepo North NKN210330	N	7:57	24.7	33.5	6.6	95.9	8.12	7.86	11.4	11.0	_	0	t	0
Waipuilani Park KWP210330	N	8:15	24.7	34.4	6.58	9,6.3	8.07	19.7	19.5	15.3	_	0	{	O
Kihei South KKS210330	N	8:32	25.3	33.8	6.29	94.1	8.07	19.0	22,6	23.7	-	l	15	0
Kalama Park KKP210330	Λί	8:50	25,1	35.2	6,67	98.7	8.14	4.63	4.41	4.60	-	3	5	(

\*Sites no longer sampled – Mai Poina Oe Ia'u, Cove Park

\*All 4 sites have possible freshwater flow

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	4	d 145	M Bron

Signature (Veam Lead):	Printed Name:	
Mittell Kill	-Mitch	Brown

Team	Kamaole	Samplers	Heckt H	CYR R	
Session	61	(Last Name, 1st Initial)	graves S.	- / .	
Date	3/30//21		cyr W.		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Natificate							
NKN210330-N-1	Kalepolepo North	<b>B</b>		7:57	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP210330-N-1	Waipuilani Park	Ø		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS210330-N-1	Kihei South	Ø		8:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP210330-N-1	Kalama Park			8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Signature (Team Lead): A Printed Name: Brown

Team	Wailea-Makena	Samplers	B. Sousa, M	Sharpe, S	Dunning	Meters and Pro	bes ID		
Session	61	(Last Name, 1st Initial)			Ů,	HQ40d: 1		2100Q:	1
Date	03/31/21					pH: 3	DO: 1		Salinity: 1

				Salinity	Dissolved	Oxygen					Entero	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	Turbidity (NTU)		CFU	water	beach	camp	
Cove Park KCP210331	Ø	8:37	25.4	32,4	6.72	98.3	8,10	5.24	4.23	4.28	~	30	2	ø
S Maluaka Beach MMB210331	ø	9:08	25.4	34.3	6.82	101.1	8,13	2.78	2,78	2.68	-	6	3	Ø
Ahihi Kinau North MAN210331	P	9:33	25.1	35,3	7,24	101.8	8,13	1.56	1.44	1.36		Ø	6	Ø
Ahihi Kinau South MAS210331		9:52	25.4	34.5	6.84	101.3	8,11	2.14	2.18	1,99	_	16	35	

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

3.4 footwaves at Malnaka Beach 3 foot wave at ahihi cove

MAN: Jeep informed Trava they noticed high oxygen reading but it was too late to vertake it.

Sites with freshwater flow: Cove Park

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.66	58.3	592
Pre-sampling	0.07	6.71	58,1	591
Post-sampling	0.07	6.67	58.1	587

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment	-	-	-					
Nutrients	4	DHS	T. Stark					
Bacteria	-	-	-					

Signature (Team Lead):	Printed Name:	
Marton	Tiana Stark	

Team	Wailea-Makena	Samplers	B. Sousa	J. Dunnina
Session	61	(Last Name, 1st Initial)	M. Sharpe	311 11.9
Date	03/31/21			

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients		-		e o granda antico		-	
KCP210331-N-1	Cove Park	Ø		8:37	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB210331-N-1	S Maluaka Beach	D		9:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN210331-N-1	Ahihi Kinau North	□ □		9:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS210331-N-1	Ahihi Kinau South	□ □		9:52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments	. 🛬				·.·		
Schnicht	<u> </u>	T'	T	<u> </u>	· · · · · · · · · · · · · · · · · · ·	T	· · · · · · · · · · · · · · · · · · ·
					500 ml		
					500 ml		
					500 ml	· ·	
					500 ml		

Signature (Team Lead):	Printed Name:
drage	Tiara Starh

Team	North Kihei	Samplers	BURNETE, G. WOLF, A.	132141, 1	Meters and Probes ID			
Session	61	(Last Name, 1st Initial)			HQ40d: 1		2100Q:	1
Date	04/01/21				pH: 3	DO: 1		Salinity: 1

				Salinity	Dissolved	Oxygen				Entero	Peop	le (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)		CFU	water	beach	camp
Maalaea Harbor NMH210401	h	0745	24.1	34.7	6.43	93.1	8.13	1,66	1,73 1,6	, 2	6	3	6
Maalaea Condos NMC210401	h	0800	24,2	34.1	7.15	103.4	8.09	2.12	2.26,660	53	0	0	0
Haycraft Park NHP210401	N	0820	24.4	35.0	6.89	100.7	8.13	\$17	6.66 63	35	/	/	1
Kealia Pond NKP210401	7	0840	24.5	35.1	6.87	100.5	8.17	1.74	1,77 1		O	6	0
Kihei Canoe Club NKC210401	N	0 900	25.2	34.6	6.84	101.1	8.14	9.11	11.1 19	9	0	3	0

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

High waves all week

\* Pen TEAM LEAD ENSTRUCTEDY - TAKEN A 4 TH

TURNSTOTT KEADENS ONLY IF A 50% DEFFERENCE EXISTS,

NOT SINE IF THIS IS THE STANDARD WE WANT OR NOT.

<u>Sites with potential for freshwater flow:</u> Maalaea Harbor, Maalaea Condos, Kealia Pond, Kihei Canoe Club

TURBIDITY VERIFICATION									
	Blank (must be <0.10)	Low	Med	High					
Standard	0.07	6.66	58.3	592					
Pre-sampling	0.06	6.69	57.8	486					
Post-sampling	0.06	6.69	58.1	587					

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment	-	-	-					
Nutrients	5	DHS	T. Stark					
Bacteria	-	-	-					

Signature (Team Lead):	Printed Name:
frank	Tiarn Stark

Team	North Kihei	Samplers	Burrette,G.	D. Jak E	
Session	61	(Last Name, 1st Initial)	Wolf, A.	Bahr, t.	
Date	04/01/21	, , , , , , , , , , , , , , , , , , , ,	1001(77)1		·

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients			:				
NMH210401-N-1	Maalaea Harbor	Q		7:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	**************************************
NMC210401-N-1	Maalaea Condos	ū		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP210401-N-1	Haycraft Park	□ □		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP210401-N-1	Kealia Pond	۵		8:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC210401-N-1	Kihei Canoe Club	12/		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		0	0		500 ml		
		0			500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:	
mark	Clara Starle	