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



Verifiers (post-sampling): T-Stark, M. Brown Verifiers (pre-sampling): M. Brown, T. Stark Pre Date: Pre Time: **Post Date: Post Time:** Session No: 9 13 21 9/16/21 69 8:35am 10:10 am

QA/QC Check	Inst#	Probe #	Last Cal Date		The second secon	RE: ion Value		ST: tion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 24.8 _{°C}	NIST 24.9 _{°C}	NIST 30.9 _{°C}	<u>NIST</u> — °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	1	3	10/20/22		24.9		31-2			pre NIST temp: 23.8°C	
	1	2				25.2				post NIST temp; 25.3.C	
Salinity			3 months	Std Val	Tap water 0.20	Salin Std 5/10/21 date 35.0 ppt	Tap water O.20	Salin Std 5/10/21 date 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	8/2/21		0.17	35.0	0.19	34.9		used salinity standard (calibration) instead of homemode sta. because	
	1	2	9/13/21		0.16	35.1				had to use some to calibrate probe #2.	
Dissolved Oxygen			1 year	Std Val	10	100%		0%	± 5 %		
	1	1	11/2/20		97.	0	97.	4 %			
	1	2	11/2/20		96.	8					
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	
	1	3	9/13/21		6.99	9.99	6.96	9.99			
	1	4	9/18/21		7.01	9.99					
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	
)	n/a	6/21/21		0.04	6.26				Lowstd: 6.21	
	3	n/a	8/2/21		0.07	6.12	0.04	6.17		Lowsta: 6.11	

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Law: NMS

Team	Kamaole	Samplers	RICK CYR Margie Cyr	Meters and Probes ID					
Session	69	(Last Name, 1st Initial)	Margie Cya HARRY DECHT	HQ40d: 1	21000	Q: 3			
Date	9/14/21			pH: 3	DO: 1	Salinity:3			

				Salinity (ppt) 30-35 normal	Dissolved	Oxygen					People	(within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable		(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)		water	beach	camp	
Kalepolepo North NKN210914	N	8:01	25.4	33.5	6.23	91.9	8.12	2.36	2,49	2.72	ø	10	p
Waipuilani Park KWP210914	N	8:18	24.7	33.0	5.86	95,2	8.05	17.7	18.2	18,6	Ø	3	Ø
Kihei South KKS210914	N	\$1.37	25.4	34.0	5.99	88.88	8.07	16.9	18.0	18.0	Ø !	2	Ø
Kalama Park KKP210914	N	9:06	26.1	35.3	6.33	95.6	8.11	8.38	8.17	9,5	3	4	ø

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

NICH KWP Broken Serns

KKS - 0845 - 0857

KKP- 9:09-9:11

trydicale sampling c KKS

Sites with potential for freshwater flow: All

TURBIDITY VER	IFICATION			
and the state of t	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.07	60-11	154-1	602
Pre-sampling	0.08	6.25	54.1	602
Post-sampling	0.03	6.14	54.4	602

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	_
Nutrients	7	NMS	M Brown
Bacteria	-	-	-

Signatury (Team Lead):

Printed Name: Mitch Brown

Team	Kamaole	Samplers	CYT M	
Session	69	(Last Name, 1st Initial)	CYT. R	
Date	9/14/21		Hecht It	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN210914-N-1	Kalepolepo North	3		8:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP210914-N-1	Waipuilani Park			8:18	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS210914-N-1	Kihei South	d	Ø	8:37	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP210914-N-1	Kalama Park	d		9:06	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	
		500 ml	
		500 ml	
	0	500 ml	

Signature (Team Lead):	Printed Name:	\mathcal{D}
nital Im	Mitch	Brown

Team	Wailea-Makena	Samplers	Wolf A, Sharpe N,	B. Sovs	Meters and I	Probes ID	
Session	69	(Last Name, 1st Initial)			HQ40d: 1		2100Q: 3
Date	09/15/21				pH: 3	DO: 1	Salinity:3

				Salinity (ppt) 30-35 normal	Dissolved	Oxygen			People	e (within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable		(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)	water	beach	camp
Cove Park KCP210915	N	8:50	26.0	32,9	6.37	94.6	8.10	6.56 10.4 8.79	15	2	3
S Maluaka Beach MMB210915	N	9:47	27.3°	35.4	6.29	97.1	8-15	0.91 1.27 0.86	16	14	Ø
Ahihi Kinau North MAN210915	Ν,	10:05	26.8	35.5	8.63	107.9	8.16	1.17 1.24 1.21	4	3	0
Ahihi Kinau South MAS210915	N	10:25	26.7	35.6	6.65	101.6	8.15	0.90 0.87 0.95	7	13	0

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

Triplicate sampling at the Cove for UH Marin Lab LSOEST
Lab Comparison

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.03	6.11	54.1	602
Pre-sampling	0.04	6.69	53.9	601
Post-sampling	0.03	6.11	54.4	602

CHAIN OF CUSTODY INFORMATION					
	# of samples	Relinquished to	Contact		
Sediment	<u> </u>	_	-		
Nutrients	7	MWZ	T. Stauk		
Bacteria	-	-	s -		

Sites with potential for freshwater flow: Cove Park

Signature (Team Lead): dioasta Tiara Stark

Printed Name:

Team	Wailea-Makena	Samplers	WOF, A., Sharpe, N., SonsaB.
Session	69	(Last Name, 1st Initial)	
Date	09/15/21		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP210915-N-1	Cove Park		<u>r</u>	8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Triplicate sampling ocove
MMB210915-N-1	S Maluaka Beach	Ø		9:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN210915-N-1	Ahihi Kinau North	T ,		10:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS210915-N-1	Ahihi Kinau South	D		10:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	0

Sediments	Sediments								
			500 ml						
			500 ml						
			500 ml						
			500 ml						

V2	Printed Name:	ignature (Team Lead):
Stark	Tiara	diagh
	(1000)	Glastin

North Kihei Team Samplers (Last Name, Session 69 1st Initial) Date 09/16/21

BUNNETTE, G. WOLF, A

Meters and Probes ID 2100Q:43 66B HO40d: 1 DO: 1 pH: 3

Salinity: 7 3 66B

					Dissolved	Oxygen				People	(within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)		water	beach	camp
Maalaea Harbor NMH210916	Y	0750	26.1	35.1	6.01	90.6	8.13	1.60 1.77	1.40	0	Ò	Ò
Maalaea Condos NMC210916	N	0810	26.0	34.4	6.87	102.9	8.12	3.12- 3.24	2.94	0	0	Ø
Haycraft Park NHP210916	_	0825	26.3	34.8	6.57	99.1	8.09	9.03 8.94	The second second	0	5	0
Kealia Pond NKP210916	N	0855	26.5	35.7	6.59	100.3	8.18	1.03 1.240	1.07	2	4	0
Kihei Canoe Club NKC210916	N	0935	27.1	35.2	6.54	100.3	8.15	1.86 1.88	2.10	1	d	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

THE PEPE BIKENS THE HARBON, WATER CLEAR AT THE MOUTH OF PAH HARBOR.

4 NUTATION SANDLES TAKEN AT NKP PEN INSTALLISON

ALL BEACHES HAD 1-2'SUNF OCCASSIONAL HEGHEN

2 SYNCHES DIFFICULT TO PASH WATER THROUGH -SAVED ONE OF THEM

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

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	003	6.11	54.1	602
Pre-sampling	0.04	6.15	54.3	602
Post-sampling	0.04	6.17	54.5	602

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	8	NMS	T. Stark
Bacteria	-	-	,-

Signature (T	eam Lead):
Signature (1)	
- 1	- 0/1/2-
OXI CM	end of
0 10	•

Printed Name: Tiara Stark

Team	North Kihei	Samplers	Burnette, G.	
Session	69	(Last Name, 1st Initial)	Wolf, A.	
Date	09/16/21			₽

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH210916-N-1	Maalaea Harbor	□ ✓		7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC210916-N-1	Maalaea Condos	□ /		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP210916-N-1	Haycraft Park	V		8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP210916-N-1	Kealia Pond	♥,	4	8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Part of triplicate Sampling (n=4)
NKC210916-N-1	Kihei Canoe Club	V		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	, 0, 3
Sediments							
					500 ml		
					500 ml	2	
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:		
frage	Tiara	Starle	