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



Session No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post Date: Post Time: 98 9, 54-Louis 10/24/22 945 9.54-Louis 10/27/22 97:30

QA/QC Check	Inst #	Probe #	Last Cal Date			tE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	<u>NIST</u> 27.6°C	NIST 27.3°C	NIST 29.2 <sub>°C</sub>	NIST 29.2 <sub>°C</sub>	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
2	1	428	12024		27.7	SALA MATERIAL SALAS	-				
2	2			***		27.3		29.4			
Salinity			3 months (5 31 22)	Std Val	Tap water	<u>Salin Std</u> 9/24/28tate 33.7 ppt	Tap water O.13	Salin Std 9/29/22 late 33.7 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
2	2		10/24/22		6.19	33,3	0.19	33.4		was supposed to be calibrated on	
2	3		10/24/22		0.20	33.3				8 3 22	
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	±5%		
2	1		12/16/21		96.	6					
2	2		12/16/21		98.	7	95.4	1			
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	
2	4		16/6/22		7,03	10.04	6.98	9.96		Read twice same numbers.	
2	5		10/6/22		7.03	10.02				July, C. Tombors,	
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	<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	8/01/22							could not get it to turn on	
2	2	n/a	801/22		0.06	6.01	0.06	6.08	6.06	10112 312	

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

\* Delay times are ok?

\* Other equipment issues?

NWS

Team Kamaole Samplers
(Last Name, 1st Initial)

Date 10/25/2022

Graven, Hocht, K. McHigh

Meters and Probes ID

HO40d: 2

2100Q: 2

pH: 4

DO: 2

Salinity: 4

1				Salinity	Dissolved	Oxygen			People	e (within 1	00 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
Kalepolepo North NKN221025	N	7:55	26.9	34.5	5.73	86.7	8.10	2.45 1.98 2.43	0	16	0
Waipuilani Park KWP221025	N	8:20	15.8	33.2	5.68	83.9	8.02	10.1 9.5710.4	0	4	0
Kihei South KKS221025	N	8:35	27.1	33.7	5,59	846	8.08	4,15 5.45 3.69	0	2	0
Kalama Park KKP221025	7	8:52	27.2	35.0	6.02	92.0	8.06	9.39 9.80 9.40	0	0	0

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

NKN: 6 canoes on the beach, lots of people on beach. Calm sea, no wakes or wind.

KWP: Calm, small waves, shight ripples in water,

some sediment/twigs in water, minimal wind

KKS: calm, small waves, minimal wind Took 4th 5.45 - 4.84

XKP: small waves, slight ripples in water, light with

TURBIDITY VERIFICATION										
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)						
Standard	0.06	6.06	54.2	601						
Pre-sampling	0.06	6.05	54.1	602						
Post-sampling	0.05	6.02	54.1	602						

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

Signature (Team Lead):

**Printed Name:** 

Sites with potential for freshwater flow: All

Moder

Ylenia M St-Louis

Team Session	Kamaole 8 <b>8</b>	Samplers (Last Name, 1st Initial)	s. Graves H. Hecht K. McHugh	
Date	10/25/2022		, , , , , , , , , , , , , , , , , , , ,	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN221025-N-1	Kalepolepo North	Ø		7:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP221025-N-1	Waipuilani Park	Ø		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS221025-N-1	Kihei South	Ø		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP221025-N-1	Kalama Park	6		8:52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments	Sediments											
			500 ml									
			500 ml									
			500 ml									
			500 ml									

Signature (Team Lead):

Printed Name:

Jlenia M St-Louis

Team Wailea-Makena Samplers
(Last Name, 1st Initial)

10/26/2022

Date

Bentley D Sousa, B

Meters and Probes ID

HQ40d: 2

2100Q: 2

pH: 4

DO: 2

Salinity: 4

1-40	Freshwater	Time	Temp	Salinity	Dissolved Oxygen						People (within 100 ft)		
Location Name Sample ID	Flowing (Y/N)	(of	(°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
Cove Park KCP221026	<b>//</b>	27.4-	34.8	34.8		86.2	8.05	2,17	1,83	2.91	2	5	ス
S Maluaka Beach MMB221026	N	8:35	27.5	35.60	6.24	96-3	8,11	0.76	0.68	0.75	17	22	Ð
Ahihi Kinau North MAN221026	W	9:00	27.0	35.2	6.28	96-0	7.98	0.91	0.97	1.08	0	0	0
Ahihi Kinau South MAS221026	N	9:30	27.1	35.3	5.77	88.3	8.03	0.65	0.58	0.57	0	0	<b>Ø</b>

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

Hi Tide Supercalue

TURBIDITY VERIFICATION										
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High						
Standard	0.05	6.06	54.2	601						
Pre-sampling	0.06	6-11	54.5	602						
Post-sampling	0.06	6.03	52,2	601						

CHAIN OF CUSTODY INFORMATION									
	# of samples	Relinquished to	Contact						
Sediment	-	-	-						
Nutrients	4	NMS	yout						
Bacteria	-	-	0- 0						

Signature (Team Lead):

Printed Name:

Sites with potential for freshwater flow: Cove Park

Imogen )

Ylenia St Cours





Team	Wailea-Makena	Samplers	Beautley. D
Session	88	(Last Name, 1st Initial)	Sousa, B
Date	10/26/2022		

Sample ID	Sample ID Location Name		Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							2 Km <sup>2</sup> 1 Km <sup>2</sup> 2 Km <sup>2</sup>
KCP221026-N-1	Cove Park	Ø		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB221026-N-1	S Maluaka Beach	¥		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN221026-N-1	Ahihi Kinau North	<i>A</i>		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS221026-N-1	Ahihi Kinau South	Ø		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):

Printed Name:

Ylenia St-Louis

Team North Kihei Samplers (Last Name, 88 Session 1st Initial) 10/27/2022 Date

4. St - Louis A. Wolf Flo

Meters and Probes ID

HO40d: 2

2100Q: 2

pH: 4

DO: 2

Salinity: 4

			444	Salinity	Dissolved	Oxygen				People	(within 1	00 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
Maalaea Harbor NMH221027	N	7:42	25.9	35.1	5.65	84,9	8,06	0.82 4 0.75	<i>ن.</i> 78	0	0	0
Maalaea Condos NMC221027	N	8:03	25.9	35.0	6.46	96.9	8.02	3.82 3.39	3.49	0	0	0
Haycraft Park NHP221027	N	8:19	26.3	35.1	6.17	93.1	8.06	1101		0	0	0
Kealia Pond NKP221027	N	8:39	26.5	35,6	6.34	96.4	8. (1	0.83 103	w 0.74	A	0	0
Kihei Canoe Club NKC221027	N	8:53	27.2	35.2	6.19	94.9	8.08	1.33 1.29	1.30	0	0	0

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

trindy, ead, high Fide-NMH People loading on wats NMC-Calmer winds Tide High, High tide was at 5:44 am,

NHP-People walking by MP-I Diver in water (Dive flag), small swells,

NKC- Calm waters, light wind Salinity on all sites where slightly out Sites with potential for freshwater flow: Maalaea Harbor, Maalaea

Condos, Kealia Pond, Kihei Canoe Club

TURBIDITY VERI	FICATION
	Blank

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	6.06	54.2	601
Pre-sampling	0.06	6.05	54,1	602
Post-sampling	0.06	6.08	54.4	602

CHAIN OF COSTODI IN ORMATION	CHAIN	OF	CUSTODY	INFORMATION
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	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	yms
Bacteria	-	-	0' -

Signature (Team Lead):

**Printed Name:** 

Ylenia M St-Louis

Team	North Kihei	Samplers	Y. St-Couls	
Session	88	(Last Name, 1st Initial)	A. wolf	
Date	10/27/2022	ist illitial)	F. Blur	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH221027-N-1	Maalaea Harbor	D/		7:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	VALUE IMPARTATION OF THE STATE
NMC221027-N-1	Maalaea Condos	8		8:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP221027-N-1	Haycraft Park	Ø		8:19	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP221027-N-1	Kealia Pond	A		8:39	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC221027-N-1	Kihei Canoe Club	Ø		8:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature	(Team,	Lead):
- B	( /	

Printed Name:

Ylenia St-Louis