

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



Session No:	Verifiers (pre-sampling):		Pre Date:	Pre Time:	Verifiers (post-sampling):		Post Date:	Post Time:			
123 WM Lanai 1	L. Yannell, J. Erwin, E. Johnson		6/12/23	2:00PM	E. Johnson L. Yannell		6/15/23 6/17/23	11:00 AM 2:00 PM			
QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value		POST: Verification Value		Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST	NIST	NIST	NIST	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	4	5	8/17/23		32.4	30.1	28.7	28.7			
	4	6	8/17/23			29.9		28.6			
Salinity			3 months	Std Val	Tap water	Salin Std	Tap water	Salin Std	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	3	5	5/22/23		0.12	33.7	0.14	32.7			
	4	6	6/12/23		0.11	34.0	0.16	34.5			
Dissolved Oxygen			1 year	Std Val	100%		100%		± 5 %		
	3	1	2/6/23		99.3%		99.0 %				
	4	4	8/15/22		100.8 %		98.3 %				
pH			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	9	6/12/23		7.00	10.01	7.03	10.02		New probe failed 1st calibration	
	4	8	6/12/23		7.00	10.01	7.02	9.92			
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	
	1	n/a	5/1/23		0.04	5.34	0.04	5.24		Low standard = 5.34	
	4	n/a	4/10/23		0.08	6.11	0.09	6.09		Low standard = 6.06	

QA: * Are pre- and post within one week?
* Delay times are ok?
* Other equipment issues?

OLP LAB

110-108-000 Sample Collection Data Sheet

Team	Lana'i	Samplers (Last Name, 1st Initial)	Yannell, L Hodges, A Callender, J Wirt, J	Meters and Probes ID		
Session	1			HQ2200: 4		2100Q: 4
Date	06/16/23			pH: 8	DO: 4	Salinity: 6

Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)	People (within 100 ft)		
					(mg/L) 5.2-7.0 normal	(%) 85-105 normal			water	beach	camp
Mānele Bay LMN230616	N	8:23 8:00 12	26.6	35.9	6.11	92.4	8.12	6.52 6.44 6.35 0.82 0.84 0.84 28 28 28	0	5	0
Hulopo'e Beach Park LHB230504 230616 28	N	8:00	26.3	35.8	6.61	99.6	8.13	0.82 0.84 0.84 6.52 6.44 6.35 28 28 28	6	0	0

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

LHB-sunny, 3' shorebreak; water
looked clean. Light breeze

LMN-calm; ferry just departed;
algae growing on the ramp,
sunny and hot; light breeze

Rained yesterday (in Lānaʻi city). Not
sure the rain made it to the coast.

Sites with potential for freshwater flow:

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.08	6.06	63.7	625
Pre-sampling	0.08	6.10	63.5	627
Post-sampling	0.09	6.09	63.2	626

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	2	OLP	L. Yannell
Bacteria	-	-	-

Signature (Team Lead):

Liz Yannell

Printed Name:

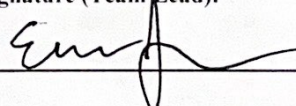
Liz Yannell

First + second post-sampling turbidity verification Blank = 0.26 + 0.20
(done in hotel room with distilled water I brought.)

Team	Lana'i	Samplers (Last Name, 1st Initial)	YANNELL, L HODGES, A CALLENDER, T	WIRT, J
Session	1			
Date	06/16/23			

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
LMN230616-N-1	Mānele Bay	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
LHB230616-N-1	Hulopo'e Beach Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):	Printed Name:
	EMILY JOHNSON