

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

Hui O Ka Wai Ola

Session No:	Verifiers (pre-sampling):			Pre Date:	Pre Time:	Verifiers (post-sampling):			Post Date:	Post Time:	
WM 125 LN 3	E. JOHNSON, J. ERWIN, L. YANNELL			7/24/23	2:30 PM	Yannell, L. + Sharpe, M.			7/28/23	1:30	
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	
					33.8 °C	33.7 °C	29.6 °C	°C			
	3	5	3/14/25		33.7		29.5				
	4	6	3/14/25			33.8		—			
Salinity			3 months	Std Val	Tap water	Salin Std 7/24/23 date	Tap water	Salin Std 7/12/23 date	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
						34.2 ppt		34.7 ppt			
	3	5	7/24/23		0.09	34.1	0.20	33.9		confirmed post verification 2x	
	4	6	7/24/23		0.10	34.2	—	—			
Dissolved Oxygen			1 year	Std Val	100%		100%		± 5 %		
	3	5	7/24/23		100.8%		101.8			New DO probe	
	4	4	8/15/22		102.0%		—				
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	7/24/23		7.00	10.01	7.01	9.99			
	4	8	7/24/23		7.00	10.01	—	—			
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
						NTU		NTU			
	1	n/a	7/3/23		0.06	5.48	0.06	5.44		Low Std 5.42	
	4	n/a	7/3/23		0.08	5.91	—	—		Low Std. 5.96	

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

OLP lab



Team	Lana'i	Samplers (Last Name, 1st Initial) Yannell, L Sharpe, M	Meters and Probes ID		
Session	3		HQ2200: 3	2100Q: 1	
Date	07/28/2023		pH: 9	DO: 5	Salinity: 5

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 LMN230728	N	8:01	27.0	35.5	6.07	92.3	8.08	4.12	4.19	3.97 4.81	0	0	0
Hulopo'e Beach Park LHB230728	N	9:00	26.9	35.5	6.76	102.7	8.16	1.15	1.20	1.23	0	1	0

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

LMN: receding tide, sunny, no wave, calm  
TURB 4<sup>th</sup>: 3.97

LHB: receding tide shorebreak 3' small,  
sunny, light breeze

\*Pre-Sampling blank value taken from  
yesterday's (R2 RN) post-sampling blank.  
Pre-sampling blank step was accidentally  
skipped before sample was poured into  
glass vial.

#### TURBIDITY & TEMPERATURE VERIFICATION

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	5.42	57.9	636
Pre-sampling	*0.04	5.55	58.8	640
Probes (+/- 0.2 °C)	D.O	Salinity	pH	Notes
Temperature Verification	26.9	27.0	27.0	
Post-sampling (Lab)	0.06	5.44	58.4	636

#### CHAIN OF CUSTODY INFORMATION

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

Signature (Team Lead): Liz Yannell	Printed Name: Liz Yannell
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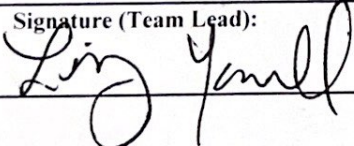
Sites with potential for freshwater flow: All

0.15 spare pre sample test @ site

Team	Lana'i	Samplers (Last Name, 1st Initial)	Yannell, L. Sharpe, M.
Session	3		
Date	07/28/2023		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
LMN230728-N-1	Mānele Bay	✓		8:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
LHB230728-N-1	Hulopo'e Beach Park	✓		9:00	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:
	Liz Yannell