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





Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
WM124	L. Yannell, Y. St-Louis	7/3/23	9:34 AM	L. Vannell, Y.St-Cavis	07/07/2023	1315
LN 2		, ,		, j ,, o,	0.10.10.5	

QA/QC Check	Inst #	Probe #	Last Cal Date		THE RESIDENCE OF THE PROPERTY OF THE PARTY O	RE: tion Value		OST: tion Value	Acceptable Range	Comments/ Notes QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 32.3 °C	NIST 32.3 _{°C}	NIST 30.00C	NIST	± 0.6 °C of NIST	Compare to NIST Std value in tap water
	5	6	3/4/2025		32.3		29.8		4. 10	
~	5	5	3/14/2025			32.2				
Salinity			3 months	Std Val	Tap water	Salin Std 41213 date 33.2 ppt	Tap water	Salin Std (a[12]23 date 33.7 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	4	6	6/1423		0.17	34.4	0.16	34.5		
	3	5	5/22/23		0.18	34.1				
Dissolved Oxygen			1 year	Std Val	10	0%	10	00%	± 5 %	
	4	4	8/15/22	Total	99	7.9	99.	8		
	3	1	2 6 23		98	. 8	-			
рН			3 weeks	Std Val	рН 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 New PH Solutions for post-
	4	8	718123		7.00	10.01	7.05	10.06		pt 7 Exp: June 2024 May 200
	3	9	7/3/23		7.00	16.01				pH 10 Exp: May 2024 Jule 20
Turbidity			3 months	Std Val	<u>BLANK</u> <0.1	<u>LOW 1-10</u>	BLANK <0.1	LOW 1-10 5.96 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value
	4	n/a	7/3/23		0.07		0.08	5.95		calibrated today: passed Med=62.9 High=641
	1	n/a	7/3/23		0.06	5.42	_	_		med=579 High=636

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues? QA:

OLP lab

Team	R2RS	Samplers	5 Bieser	T. Friebers, M. Floyd	Meters and	Probes ID	
Session	124	(Last Name,)	HQ2200: 4		2100Q: 4
Date	07/04/2023	1st Initial)			pH: 8	DO: 4	Salinity: 6

	Fresh			Salinity	Dissolved	Oxygen			Peopl	e (within 1	00 ft)
Location Name Sample ID	water Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L) 5.2-7.0 normal	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)	water	beach	camp
Napili Bay RNS230704	N	8'.04	25,7	34.4	638	94.6	8.11	0.77 0.82 0.75	3	3	Ø
Pohaku RPO230704	N	8:26	26.(33.8	6.15	91.9	8.16	0.72 28	7	1	4
Kaanapali Shores RKS230704	N	8:45	25.8	35.5	6.62	98.5	8.11	2.60 ×1.52 2.08	3	16	2
Kahekili Beach Two RKT230704	N	9:04	26.8	36.0	6,28	95.0	8,16	0.57 0.63 0.57	1	3	Ø
Canoe Beach RCB230704	N	9:26	27.5	35.3	6.71	102.6	8-21	2,63 3.04 2.92	2	6	Ø
Wahikuli RWA230704	N	9:40	27.2	35,0	6.50	99.1	8.21	0.86 0.71 0.67	2	D	0

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

Use the back of the form if needed.

No strd sampling was done or not written dow

PNS VERT CALM SWELLS. CALM breeze.

RPO- 4th +0.B = 0.72

RKG-CALM waters, NO Swell ythe for bity 1.36

PKT- minimal swells, Trade winds getting strong PCB- CORM, Light TRADOS.

RWA- .05' Shorebreak

*KING TIDE EA

* Digtilled water bottle not pouring.

·	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.07	5A6	62.9	641
Pre-sampling	0.08	5.99	62.6	641
Probes (+/- 0.2 °C)	D.O	Salinity	pН	Notes
Temperature Verification	25.7	25.7	2516	
Post-sampling (Lab)	80.0	5.90	62.9	639

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Nutrients	6	OUP	Liz Yanuell					
distribution and the second		and the second control of the second	A STATE OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON					

Sign	nature (Tea	ım Lead):	1
Y	Lu	1-V	James	W
-	1/3	X	10	1

Printed Name:
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1	М		5	
	V.,		7	

Team	R2RS	Samplers	S. Biesec.	T. Friedberg	M. Floyd
Session	124	(Last Name, 1st Initial)			
Date	07/04/2023	The state of			pM

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RNS230704-N-1	Napili Bay	ष्ट		8:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RPO230704-N-1	Pohaku	4		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKS230704-N-1	Kaanapali Sh	4		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKT230704-N-1	Kahekili Beach Two	6		9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RCB230704-N-1	Canoe Beach	E/		9:26	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RWA230704-N-1	Wahikuli	4		9:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			1-10		
			500 ml		
			500 ml		
			500 ml		
			500 ml	14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Signature (Te	am Lead):	Printed Name:	Mannell	
()				

 Team
 Polanui

 Session
 124

 Date
 07/05/2023

Samplers (Last Name, 1st Initial) GIUND, K HARRIS, K (WOL FURLIOT TO

 Meters and Probes ID

 HQ2200: 4
 2100Q: 4

 pH: 8
 DO: 4
 Salinity: 6

	Fresh			Salinity	Dissolved	Oxygen					Peopl	e (within 1	00 ft)
Location Name Sample ID	water Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L) 5.2-7.0 normal	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
505 Front St PFF230705	Y	8:10	26.7	135.4	5.51	83.3	8.07	5,26K	4.51	4.84	3	2	0
Lindsey Hale PLH230705	N	8;36	27.2 35.3 KH	35.3	5.11	77.9	8.08	4.89	5.06	, 4.58	0)	٥
Lahaina Town PLT230705	N	8:55	27.3	34.9	5.85 8.87	89.4 8.74KH	9.43k)		8.74	9.43 7.77k	D	7	6
Camp Olowalu OCO230705	N	9:32	27.3	34.1	6.43	98,3	8.13	2.60	2.49	2.394	4 ک	2	0
Mile Marker 14 OMM230705	N	9:53	26.8	36.0	6.00	91.0	8,08	1.39	1.54	1.24	1	4	0
Ukumehame OUB230705	N	10:08	28.0	36,3	4.70 KH	104.0	8.17	4.89	4.94	5.24	0	0	0
Papalaua Pali OPP230705	N	10:24	27.7	36.1	6.78	104.3	8.18	3,48	3.22	3,35	D	۵	0

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

Use the back of the form if needed.

PEF super calm 4th turbidity 5.78

PLH dirty water directing in front of the drainage pipe. No water flowing now plt thick silty bottom so we waited and avoided the cloud. So sorry about putting turbidity in wrong place and one calmer than we've seen

OPP windy + misty

OMM-UTH TURBIDITY-1-19 CA

* good job labeling + wrapping probes & + PO COMMENTS ON OMM + OUB (1) A

Sites with notential for freshwater flow: 505 Front st. Ukumehame 24

	Blank (must be <0 10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)	
Standard	0.07	5.96	62.9	641	
Pre-sampling	0.07	5.93	62.6	649	
Probes (+/- 0.2 °C)	D.O	Salinity	pН	Notes	
Temperature Verification	26.7	26.7	26.6	Link Ba	
Post-sampling (Lab)	0.07	5.93	62.8	641	
CHAIN OF CUSTODY INFORMATION	# of Samples	Relinquish to	Со	ntact	
Nutrients	7 (OLR	EMILIN	SHUGUN	
Signature (Team Lead	D: Smill	100 Pri	nt: TOALLS	WHO	

FROM TUESDATIFREP & Last modated Apolicies

Team	Polanui		
Session	124	Samplers (Last	GUND, K
Date	07/05/2023	Name, 1st Initial)	HANZRIS, K

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
utrients							
PFF 230614-N 1- 230705-N-	505 Front St	ď		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH230705-N-1 Lindsey Hale		Q		8:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT230705-N-1 Lahaina Town		Q		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OCO230705-N-1	Camp Olowalu	Ø		9:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OMM230705-N-1	Mile Marker 14	o d		9:53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OUB230705-N-1	Ukumehame	Q	, 0	10:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OPP230705-N-1	Papalaua Pali	8		10:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	12.00

Sediments				
			500 ml	
			500 ml	
			500 ml	

Signature: Enway	Juha Pr	int: EM 1	W	HOK	NSUN
()	0		l asi	updated	April 2023

Team RZRN Samplers
(Last Name, 1st Initial)

Date 07/06/2023

Samplers
(Last Name, 1st Initial)

Hehenom, C

 Meters and Probes ID

 HQ2200: 4
 2100Q: 4

 pH: 8
 DO: 4
 Salinity: 6

				Callada	Dissolved	Oxygen		W. C. B.			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) 5.2-7.0 normal	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		water	beach	camp
Honolua Bay RHL230706	N	7:59	25.1	34.4	6.32	92.9	8.14	2.86	3.10	2.81	8	14	D
Oneloa Bay RON230706	1)	8:34	26.1	36.1	6.81	1019	8,20	,55	.80	.774	0	2	0
Kapalua Bay RFS230706	N	9:00	26.3	34.7	6.19	93.1	8.09	1.34	1.34	1.52	38	30	0
Ka'opala Bay RKO230706	N	9:29	35.90	+35.9	5.93	89.5	8.16	3.17	3.09	3.05	2	2	8
Kahana Village RKV230706	N	9:44	26.7	35.3	5,81	87.8	8.11	4.32	5.96	4.08	9	11	0

A CONTRACTOR OF
NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
RIH- Pain this am. not currently calm, No surf yes during le
RON Some waves beards empty, drissle Ath Turbity Reading 18 All very tow
RFS 30p in water 30p on beach twish low tide small waves light breeze not 4
RKO 4p boach + water fairly clear still dae RKV-BHB under construction, light Breeze, No woves, Lower Hide
HM turbidates 4+15 5.96 gA

TURBIDITY VERIFI	CATION				
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)	
Standard	6.67	596	62.9	641	
Pre-sampling	0.09	5,96	62.4	640	
Probes (+/- 0.2 °C)	D.O	Salinity	рН	Notes	
Temperature Verification	25.2	25.1	25.0		
Post-sampling (Lab)	0.06	593	63.0	640	

	# of samples	Relinquished to	Contact		
Nutrients	5	OLP	EMILY JOHNSON		
Signature (Team I	Lead):	Printed Name:			
Emily &	Anle	EMILY '	CHN. CON		

Sites with potential for freshwater flow: All

Team	R2RN	Samplers	BERG, L	4
Session	124	(Last Name, 1st Initial)	HEHEMANN, C	
Date	07/06/2023		HURLEY, C	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RHL230706-N-1			Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters				
RON230706-N-1	Oneloa Bay	œ		8:34	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RFS230706-N-1	Kapalua Bay	Ŋ		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKO230706-N-1	Kaʻopala Bay	₽⁄		9:29	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
RKV230706-N-1	Kahana Village	02		9:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
		50	00 ml	
		50	00 ml	
		50	00 ml	
		50	00 ml	

Signature (Team Lead):

Printed Name:

EMILY JOHNSON