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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	0	Verifiers (post-sampling):		Post Date:	Post Time:
FR4	L. Yannell	9/20/23	11:00 AM	C	. Keyhani	L. Yannell	9/22/23	12:00 pm
			1:32 PM					,

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: tion Value		OST: tion Value	Acceptable Range	Comments/ Notes QA
Temperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 27.6°C	NIST °C	NIST 31.3 _{°C}	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water
	2	7	6/28/24		27.5		31.3			
Salinity			3 months	Std Val	<u>Fap water</u>	Salin Std 9/11/123 date 34.0 ppt	Tap water	Salin Std 9/11/23date 34.0 ppt	± l ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	3	7	8/7/23		0.05	33,8	0.18	33.8		Pre verification = kula theo post verification = Kinei H20
Dissolved Oxygen			<u>l year</u>	Std Val	10	0%	100%		± 5 %	
	3	3	7/17/23		101.3	3	100	.9		
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
	3	5	9/20/23		6.99	9.98	7.00	10.03		PH 10 Exp 5/2024 PH 10 Exp 5/2024
Turbidity	Verific 9/20/2 7:06 F	ation o	3 months	Std Val	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value
	5	n/a	8/7/23		0.07	6.54	0.05	6.53		Spare Blank Pre: 0.07
		n/a					28K			1

QA: * Are pre- and post within one week? Pyl; * Delay times are ok?

* Other equipment issues?

(iz Mannell's) Post: (kitchen lab) NMS (ab

Team Lahaina Fire Response	Samplers Kimmel, J.	Meters and Prob	Meters and Probes ID				
Session 4	(Last Name,	HQ2200: SM 3	2100	0Q: SM 5			
Date 09/21/2023	1st Initial) Janvell, C.	pH: SM 5	DO: SM 3	Salinity: SM 7			

		- A			Dissolved	Oxygen					People	e (within 1	00 ft)
Location Name Sample ID	Fresh water 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)		yy .	water	beach	camp
Mala Tavern LMT230921	N	7:31	26.4	35.4	6.57	7 98.6	7.98	4.69	1.83	(1.64)	0	0	0
Mala Ramp LMR230921	y	8:14	26.le	35.2	6.18	93.2	8.05	3.74	4,10	4.68	O	U	0
Papalaua St LPS230921	N	8:38	26.4	35.7	6.36	95.9	8.02	3.98	4.78	4.09	O	0	0
Lahaina Harbor LLH230921	N	9:05	27.2	35.7	5.73	87.7	8.08	0.68	0.61	0.65	Ó	0	8
505 Front St PFF230921	N	9:38	269	36.0	6.32	96.5	8.12	2.65	2,81	(2,70)	y O	0	0
Lindsey Hale PLH230921	IN	10:01	26.7	35.7	6.34	96.3	8.10	17.5	17.2	16.8	0	0	0
Lahaina Town PLT230921	N	10:29	27.2	35,3	6.26	96.2	8.04	25:6	31.2	29.7		0	0

&ENT samples taken at all sites for BWTF

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form if needed.
LMT- Higher/bigger shore break; turtles
in the Iwater (loud could
LMR-small stream flow ~3 ft wide
LPS - wind picking up. then died down again, Some swells coming in.
PFF- flooding in parking lot looks the same. Maybe

PFF - flooding in parking	lot looks the same. Maybe
Some receding. Photo	taken (Jody). Water J
1 50 -11 2	()(\ c31/0/c
11 H- WW booms around -	the harbor perimeterinext
to water USCG excavation	ex debris from harbor water

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)		
Turbidity Standard	0.07	6.54	58.4	605		
Field - Pre-Sample	0.08	6.55	58.7	605		
Lab – Post Sample	0.05	6.55	59.0	604		
Probes (+/- 0.2 °C)	D.O	Salinity	pН	Notes		
Verify Probe Temps	76.1	7.6.4	263			
CHAIN OF CUSTODY	# of Samples	Relinquish to	-	ntact		
Nutrients	7	NMS	Liz Yannell			

Sites with potential for freshwater flow: 505 Front St, Mala Ramp

PCH - Whr very brown i Sunny now

PLT-VEST brown WALL, Hawaiian Electric Co. doing work/excavation there next Last updated April 2023

PLT-VEST brown water is a warm of the navior per livering signature (Team Lead): Ling Yould Print: Ling Yannell

Signature (Team Lead): Ling Yould Print: Ling Yannell

PCH - Whr very brown i Sunny now

PLT-VEST brown WALL, Hawaiian Electric Co. doing work/excavation there next Last updated April 2023

Team	Lahaina Fire Response		Kinnel, J.	
Session	4	Samplers (Last Name, 1st Initial)		
Date	09/21/2023		Keyhani, C.	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
utrients							
LMT230921-N-1	Mala Tavern	•		7:31	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
LMR230921-N-1	Mala Ramp	d		8:14	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
LPS230921-N-1	Papalaua St.	Ø		8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	\$
LLH230921-N-1	Lahaina Harbor	□ ✓		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PFF230921-N-1	505 Front St	■ I		9:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLH230921-N-1	Lindsey Hale	D		10:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
PLT230921-N-1	Lahaina Town	4		10:29	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

RENT samples at all sites for Surfrider BWTF

Sediments			-		
	П		500		
			500		5000
			ml	7 K	
T-MANUAL TOTAL			500 ml		

Signatures July Print: Liz Yannell

Team	WM Fire Response	Samplers (Last Name,	Gond, K', Gond M, Yanil L.	Meters and Probes ID					
Session	4	1st Initial)	Keynani, C.	HQ2200: SM 3	210	0Q: SM 5			
Date	09/22/2023			pH: SM 5	DO: SM 3	Salinity: SM 7			

	Fresh			Salinity (ppt) 30-35 normal	Dissolved	Oxygen				Peopl	e (within 1	00 ft)	
Location Name Sample ID	water Flowing (Y/N)	Time (of collection)	Temp (°C) variable		(mg/L) 5.2-7.0 normal	(%) 85-105 normal	pH 8-8.3 normal	4	Turbidity (NTU)		water	beach	camp
Canoe Beach RCB230922	N	8'.ZSam	26.2	35.6	6.75	101.2	8.16	2.45	2.67	3.07	0	3	O
Wahikuli RWA230922	N	9:00am	26.7	35.8	6.57	99.4	8.16	0.62	0.59	0.67	0	0	0
Camp Olowalu OCO230922	N	9:34 am	25.6	35.9	6.56	97.8	8.04	7.49	8.11	7.85	0	0	6
Mile Marker 14 OMM230922	N	9:54am	26.3	36.0	5.95	89.7	8.02	3.07	3.10	2.95	٥	1	2
				1.3	August and and				1				

		Small vol	ina		
RCB; R	Rocky Beach sprinkling	, rocks can	ne back, co	I'm day,	
	sprinkling	rain, br	CZR		
RWA:	Rotten egg	Isolfur sm	ell within 1009	t, light wave ac	tion,
	breezy				
000	: Breezy	, seems	high tide		
OMM	1: Windy	, calm			
2nd reac	1: 26.2°C	36.1 py+	6.00 mg	/L 90.2%	
	CK Salinity	Salinity	Dissolved	doxygen	

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Turbidity Standard	0.07	6.54	58.4	605
Field - Pre-sample	0.07	6.62	58.8	604
Lab – Post sample	0.05	6.53	58.6	604
Probes (+/- 0.2 °C)	D.O	Salinity	pH	Notes
Verify Probe Temps	25.9°C	26.2°C	26.1 C°	

	CHAIN OF CUSTO	DY INFORMATION	1	
	# of samples	Relinquished to	Contact	
Nutrients	4	NMS	Christiane	

Signature (Team Lead):	Printed Name:
Christian K	Christiane Keyhani

Team	WM Fire Response	Samplers	Gund, K.; Gund, M.; Yannell, L.;
Session	4	(Last Name, 1st Initial)	Keyhani, C
Date	09/22/2023		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
RCB230922-N-1	Canoe Beach	8		8:25am	125 ml	Washed, rinsed syringes, acid washed bottles; 0.2 um disposable filters	
RWA230922-N-1	Wahikuli	8		9:00 am	125 ml	Washed, rinsed syringes, acid washed bottles; 0.2 um disposable filters	
OCO230922-N-1	Camp Olowalu	Ø		9:34 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
OMM230922-N-1	Mile Marker 14			9:54 am	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:
Christian K	Christiane Keyhani