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



Post Date: 8/5/24 Session No: Pre Date: Pre Time: Verifiers (post-sampling): Post Time: Verifiers (pre-sampling): M Brown 8/2/21 9:00 am 67 M. Brown, T. Stark

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA ⁴
Femperature	NIST	n/a	NIST Exp. Date	Std Val	NIST 23.7 _{°C}	NIST 24.0 _℃	NIST 31.1 _{°C}	NIST — °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	1	1	10/16/22		23,8		31.4				
	2	2				24.3		_			
Salinity			3 months	Std Val	Tap water O·13	Salin Std 5 10 21 date 35.0 ppt	Tap water O.13	8 Salin Std 5 21 date 33.6 ppt	±1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	8/2/21		0.17	35.1.	0.18	33.6		Carry made.	
	2	2	5/31/21		0.17	35.1	_			San Jan	
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	1	1	11/2/20		96	5 %	96	.7			
	2	2	11/2/20		97	.8 %	-	_			8
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	
	1	3	8/2/21		6.97	9.95	7.05	10.02			
	2	4	8/2/21		7.01	10.00	_				
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10NTU	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	6/21/21		0.07	6.17	0.04	6.21		Turbidity Calibration Sta Exp: June 2022	
7-7-11-11-7-11-4	3	n/a	8/2/21		0.09	6.11				Low Std: 621; Low 8td: 6.11	

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Lab: NMS

* Turbidity Meter #2 sent for repairs. Found a #3 and calibrated for use as backup.

Team	Kamaole	Samplers	RICK CYT	Meters and Prob	oes ID		
Session	67	(Last Name, 1st Initial)	SCOTT GRAVES	HQ40d: 1	21	00Q: 1	
Date	8/3/21		7.00	pH: 3	DO: 1	Salinity:3	

				Salinity	Dissolved	Oxygen		And a			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 NKN210803	N	89m	26.5	33.1	6.79	83.7	8:09	1.82	3.05	2.67	0	3	0
Waipuilani Park KWP2108013	N	08:24	25.9	32.8	5.61	83.0	8.06	4.40	5.41	5.49	0	1	0
Kihei South KKS210803	N,	08.44	26.9	34.0	5.54		8.10			4.23	0	2	0
Kalama Park KKP210803	N	0902	26.7	34.8	6.41	97.2	8.12	5.50	5.97	6.47	3	7	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.	TURBIDITY VER	IFICATION			
1 805 - 808		Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
2 828-8:35	Standard	0.06	6.21	54.8	578
3 8:49-852	Pre-sampling	0.06	6.17	54.6	580
4.9:06 9:10	Post-sampling	0.05	6-17	54.8	578

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	if	NIMS	M Brow
Bacteria	-	-	-

	Signature (Toam Léad); //	Printed Name:
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	11 / D
	1/A-1100 / 1/11	MANA TOWN
	I I I I I I I I I	MUTER STOWN
_		

Sample ID

Nutrients

Team	Kamaole	Samplers	Cur R	
Session	67	(Last Name, 1st Initial)	Garage S	
Date	08/3/21		graves S.	

Sample taken?

Location Name

Duplicate sample?

NKN210803-N-1	Kalepolepo North	8		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP210803-N-1	Waipuilani Park	6		8:24	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS210803-N-1	Kihei South	6/		8:44	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP210803-N-1	Kalama Park	6		9:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
diments							
diments							
diments					500 ml		
diments		0	0		500 ml		
diments							

Time

Volume

Signature (Team/Lead):/	Printed Na	ame;/ / /	0
VIII VIII	VIA. 1	Mittin	Harris
munici	1/1/ //	MUJON	DIOWY

Protocol Notes

Comments

Meters and Probes ID Wolf A, W Sharpe, B. Sovsa **Team** Wailea-Makena Samplers (Last Name, HQ40d: 1 2100Q: 1 Session 67 1st Initial) DO: 1 pH: 3 Salinity: 3 08/04/21 Date

				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
Cove Park KCP210804	N	8:45	24.5	32.7	6.19	92.3	8.07	4.17	4.18	4.08	200	2	24
S Maluaka Beach MMB210804	N	1;20	27.1	35.4	6.38	97.7	8.14	0.94	0,94	(-00	4	5	0
Ahihi Kinau North MAN210804	N	735	26.7	35.4	7.52.	14.5	8.17	1.24	1.68	2.03	4	3	6
Ahihi Kinau South MAS210804	\sim	9:45	26.7	35.5	6.61	100.7	8.14	0.71	0.71	0.71	11	18	0

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

Cove Park = compers w/dog live @ beach Surf school peo. off in distance 30+

* Nancy Snape accidentally signed in the "team lead" box.

Sites with potential for freshwater flow: Cove Park

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.05	6.21	54.8	578
Pre-sampling	0.04	6.21	54.7	578
Post-sampling	0.06	6.21	54.8	578

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	4	NMS	T. Stark
Bacteria	-	-	_

Signature (Team Lead): Printed Name:

At Sharke

Tiara Stark

Team	Wailea-Makena	Samplers	Wolf, A.	Sousa, B.	
Session	67	(Last Name, 1st Initial)	Grarpe, N.	20002011 23	
Date	08/04/21				

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP210804-N-1	Cove Park	0		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	4
MMB210804-N-1	S Maluaka Beach			9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN210804-N-1	Ahihi Kinau North	o .		9:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS210804-N-1	Ahihi Kinau South	B		9:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	
	0	500 ml	
		500 ml	
		500 ml	

Signature (Team Lead):	Printed Name:
drash	Tiara Stark
duare	Mara Bloom

Team	North Kihei	Samplers	BURNERS, G.	Meters and P	robes ID	
Session	67	(Last Name, 1st Initial)		HQ40d: 1	(8)	2100Q: 1
Date	08/05/21		Bach, F	pH: 3	DO: 1	Salinity: 3

				Salinity	Dissolved	l 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	(ppt) 30-35 (mg/L)		pH 8-8.3 normal	Turbidity (NTU)		water	beach	camp
Maalaea Harbor NMH210805	N	0743	25.1	34.5	5.98	88.1	8.08	1.17 1.11	1.14	0	0	Ó
Maalaea Condos NMC210805	7	0805	24.8	32.0	7.74	112.0	8.10	3.09 2.62	2.96	1	1	٥
Haycraft Park NHP210805		0820	25.3	34.2	6.65	98.1	80.8	8.86 8.94	8.88	2	2	0
Kealia Pond NKP210805	N	0845	26.4	35.6	6.60	99.7	8.15	0.76 0.92	0.99	0	1	0
Kihei Canoe Club NKC210805	N	0905	27.2	34.7	6.46	98.6	8.11	1.21 1.46	1.41	4	14	0

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

Use the back of the form if needed.

PMC DO MAD DO HIGH?

PLANCED THAN FILTEN USED - WAREN

PUSULED THAN FISHEN MUCH EASTEN

ES THES OKAY?

2 ENGLE NAS PEAM SHONE AT NKC

ALL BEACHES - MUCH LESS WIND! TO DAY COMPARED

TO NECLOSE WELLS, WAND GENERALLY

SMALLER

Sites with potential for freshwater flow: Maalaea Harbor, Maalaea Condos, Kealia Pond, Kihei Canoe Club

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	6.21	54.8	5,78
Pre-sampling	0.06.	6.21	54.4	577
Post-sampling	0.04	6.22	54.7	578

	# of samples	Relinquished to	Contact
Sediment			-
Nutrients	5	NUS	T. Stark
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:
Liadh	Tiara Stark

Team	North Kihei	Samplers	Burnette, G.
Session	67	(Last Name, 1st Initial)	Bahr, F.
Date	08/05/21		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH210805-N-1	Maalaea Harbor	D		7:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC210805-N-1	Maalaea Condos	D		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP210805-N-1	Haycraft Park	0		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP210805-N-1	Kealia Pond	12		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC210805-N-1	Kihei Canoe Club	₽/		9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sodi-conto							
Sediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:	
forestal	Tiara Stark	