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



Session No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post Date: Post P

QA/QC Check	Inst #	Probe #	Last Cal Date			RE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes Q
Геmperature	NIST	n/a	n/a	Std Val	NIST 35.8℃	NIST 24.4°C	NIST 27.7 _℃	NIST •C	± 0.6 °C of NIST	Compare to NIST Std value in tap water
	1	1	n/a		25.0		27.6			
	1	2	n/a			24.3		-		
Salinity			3 months	Std Val	Tap water O.17	Salin Std //3/20tlate 35.0 ppt	Tap water 0.13	Salin Std 13 20 te 2 2 20 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	1	1	5/4/20		0.16	35.2	0.16	35.0		
	1	2	6/29/20		0.16	35.3	_			
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %	
	1	1	10/18/19			0.6	96	. 2		
	1	2	10/18/19		101	.4	-			
рН			3 weeks	Std Val	pH 7.00	pH 10.00	pH 7.00	рН 10.00	± 0.1 pH of pH std value	Compare to Manufacturer pH Std value on bottle
	1	3	7/20/20		6.95	10.02	7.06	10.04		
	1	#	7/20/20		7.06	10.03	_			and the second second
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
	2	n/a	5/4/20		0.03	6:43	0.05	6.51-	_ STO. 6.45	5d 6.45
	1	n/a	5/4798		0.03	6.75	0.04	6.75		5d 6.68

QA:

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

Team	Kamaole	Samplers	W Cyr	Meters and Probes ID			
Session	49	(Last Name, 1st Initial)	Ray-	HQ40d: 1	21	00Q: 1	
Date	7/21/20		5. graves	pH: 3	DO: 1	Salinity: 1	

	Streams	Time		Salinity	Dissolved	Oxygen	pН		Turbidity		Entero	People	(within	100 ft)
Location Name Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal	(NTU)		CFU	water	beach	camp	
Kalepolepo North NKN200721	N	8105	26.6	32.0	5.81	86.5	8.09	1.75	1.96	1.94	Ø	6	6	0
Waipuilani Park KWP200721	NA	8.30	26.8	37.1	6.07	89,3	8.07	15:4	15.8	17.0	0	0	2/10	0
Kihei South KKS200721	NA	8:48	26.6	32.5	5.81	87.0	8.09	5,93	7.11	6.25	10	0	(-61
Kalama Park KKP200721	N	2:09	26.7	34.0	6.28	96.0	8.10	6.67	7.31	6,89	B	6		6
Cove Park KCP200721	N	9:25	27.0	31.0	6.37	95.2	8.09	5.23	6.52	6.96	10	20	0	6
Mai Poina Oe Iau NMP200721	NA	9154	27.6	31,7	6.52	98.8	8.08	6.13	7.04	6,74	6	2	1/ldog	5

ao Lisherman)101
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		SILVILAR	
IFICATION	6 60	100 10	623
Blank (must be <0.10)	Low	Med	High
0.03	645	58.9	602
0.04	6-69	60.7	623
004	6,74	60.9	622
	Blank (must be <0.10)	Blank (must be <0.10) Low 0.03 645 0.04 6-69	Blank (must be <0.10) Low Med 0.03 645 58.9 0.04 6.69 60.7

CHAIN OF CUSTODY INFORMATION

Nutrients	2	Nus	M& non
Bacteria			

Signature (Team Lead):	Printed Name!
Metato Van	Mitch Drown
/	1.000

Team	Kamaole	Samplers	Ro Ceso
Session	49	(Last Name, 1st Initial)	m Cego
Date	7/21/20		S. Graves

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
NKN200721-N-1	Kalepolepo North			3:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP200721-N-1 Waipuilani Park					125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS200721-N-1	Kihei South				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP200721-N-1	Kalama Park				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP200721-N-1	Cove Park			9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP200721-N-1	Mai Poina Oe Iau				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments											
			500 ml								
			500 ml								

Signature (Team Lead): Prin	nted Name:
Miles II II	M. Lell Ray
Morain Min	"Wille Drown

Team	Makena	Samplers	Bob Souse, M. Sharpe, J Dunning	Meters and	l Probes ID		
Session	49	(Last Name, 1st Initial)	O .	HQ40d: 1		2100Q:	1
Date	7/22/20			pH: 3	DO: 1		Salinity: 1

Location Name	Streams	Time		Salinity	Dissolved	Oxygen	pН		Turbidity		Entero	People	e (within	100 ft)
Sample ID	Flowing (Y/N)	(of collection)	Temp (°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	8-8.3 normal		(NTU)		CFU	water	beach	camp
Makena Landing MML200722	N	8:05	26.4	33.8	6.27	94.z	8.11	3.55	7.46	7.15	10	o	G	a
S Maluaka Beach MMB200722	N	8:29	27.0	34.4	6.18	94.1	8.13	0.92	0.94	0.90	X	0	0	0
Oneuli MON200722	N	8:50	27.3	34.Le	6.05	92.4	8.09	1.16	0.90	0.92	Ø	0	2	0
Ahihi Kinau North MAN200722	N	9:12	27.0	34.8	6.79	103.3	8.11	0.89	0.91	0.95	Q	0	0	0
Ahihi Kinau South MAS200722	N	9:37	26.9	34.3	6.41	97.2	8.11	1.08	0.91	0.96	×Q	4		0

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

MML . took 4th turbidity - 7.49

TURBIDITY VER	RIFICATION		The Rock	
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.68	60.6	623
Pre-sampling	0.05	6.78	60.4	623
Post-sampling	0.04	6.72	60.9	621

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	_	
Nutrients	3	NMS	M. Bis
Bacteria	,	6	

*Sites no longer sampled - Makena Landing & Oneuli

0		
Signature (Team head):	Printed Name:	D.
Mithelil Min	111, X.	Kn.
I MUMAN MINON	- 11/1 10cm	Drown

Team	Makena	Samplers	8. Sousa	
Session	49	(Last Name, 1st Initial)	M. Sharpe	
Date	7/22/20		J. Dunning	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
MML200722-N-1	Makena Landing				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB200722-N-1	South Maluaka Beach			8:59	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON200722-N-1	Oneuli				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN200722-N-1	Ahihi-Kinau North			9:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS200722-N-1	Ahihi-Kinau South			9:37	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Feam Lead):	Printed Name:
Mulha	May M Drom
9	

Team	North Kihei	Samplers	Llo	Bah, Tara Stark	Meters and	d Probes ID	
Session 4	49	(Last Name, 1st Initial)		- / /(00/ 1 - /- /-	HQ40d: 1		2100Q: 1
Date 7	7/23/20				pH: 3	DO: 1	Salinity: 1

Streams 7		Time Temp		Salinity	Dissolved	i Oxygen	»II				Entero	People (within 100 ft)		
Location Name Sample ID	Flowing (Y/N)	(of collection)	(°C) variable	(ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		Turbidity (NTU)		CFU	water	beach	camp
Maalaea Harbor NMH200723	N	7:50	26.1	34,4	6.03	901	8.11	0.95	0.93	0.84	0	0	0	0
Maalaea Condos NMC200723	N	8:15	26.2	32.0	6.68	99.2	8.02	2.17	2.31	2.31	0	0	0	0
Haycraft Park NHP200723	N	8:35	26.4	34.4	6.41	96.5	8.10	2.01	1.80	2.01	0	8	74	57
Kealia Pond NKP200723	N	9:00	27.0	35.3	6.43	98.1	8.15	0.99	0.82	0.83	0	0	3	0
X Sugar Beach NSB200723	2	9:15	27.5	34.6	6.39	97.9	8.14	2.56	2,58	2.64	20	0	1	0
Kihei Canoe Club NKC200723	2	9:30	28.2	34.4	6.32	98.0	8-10-	2.78	3.58	3-36	10	0	6	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
NMH - windy, some waves
NHP- 2 steep tents, 2 pop-ups, 5 fishirg
NKP-1 dog on beach wid not
NEP-1 dog on beach; did not NSD-1 dog on beach; did not Collect for nutrients; temperature psirof since this morning
nsing since this morning
*Sites paused for sampling - Sugar Beach brown

Sites with streams/outflows: Kealia Pond

	Blank (must be <0,10)	Low	Med	High
Standard	0.04	6.68	60.6	623
Pre-sampling	0.07	6.68	60-7	624
Post-sampling	0.04	6-73	(000)	1 7 2

	# of samples	Relinquished to	Contact
Sediment	-9	<u> </u>	-
Nutrients	5	NMS	T. Stark
Bacteria	<u>_</u>	_	-

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

Team	North Kihei	Samplers	F. Bahr	
Session	49	(Last Name, 1st Initial)		
Date	07/23/2020		T. Stark	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH200723-N-1	Maalaea Harbor	\		7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC200723-N-1	Maalaea Condos	₩		8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP200723-N-1	Haycraft Park			8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP200723-N-1	Kealia Pond			9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB200723-N-1	Sugar Beach			•	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Did not take IC pausing sampling he
NKC200723-N-1	Kihei Canoe Club	₫		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
			-				
Sediments							
					500 ml		
					500 ml		
					500 ml		
	1				500 ml		

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

Hui O Ka Wai Ola - Sample Collection Datasheet

Team Wailea	Complete	Alfred	Meters and Probes ID				
Session 49	(Last Name,	Anne	HQ40d: 1		2100Q: 1		
Date 7/24/2020	1st Initial)	Tiava	pH: 3	DO: 1	Salinity: 1		

				Salinity	Dissolved	Oxygen					Entero	People	e (within	100 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	(ppt) 30-35 normal	6-7 (mg/L) normal	(%) 85-105 normal	pH 8-8.3 normal		Furbidity (NTU)		CFU	water	beach	camp
Kilohana Dr WKD200724	N	8:06	27.2	34.9	6.30	94.2	8.14	0.79	0.76	0.77		2	9	0
Keawakapu Beach WKB200724	N	8:25	27.8	35.0	6.33	96.8	8.14	0.77	0.87	1.05		O	2	0
Ulua Beach WUL200724	N	8:45	27.2	34.7	6.37	97.1	8.12	1.09	1.23	1.28		10	0	0
Palauea WPL200724	N	9:01	27.6	34,9	6.39	98.0	8.15	0.70	0.73 -	1.41		2	3	0
* Poolenalena WPO200724	N	9:15	27.9	34.9	6.41	99.0	8.18	0.53	0.57	052		5	1500	ano

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

WKD-I dog on beach; there was
WKB-I dog on beach; there was
"XXXX" across turboding screen
WUL-Sul(X2), Subordines hearton

WPO-4+ents; boosie bourders NPO-4+ents; boosie bourders Newby; 3 fishing *Sites paused for sampling-Palauea & Po'olenalena pole out

* temp diff blu Salunty & Do probe : 0.30

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.68	60.6	623
Pre-sampling	0.04	6.75	60.8	623
Post-sampling	0.04	10.75	60.0	622

CHAIN OF CUST	ODY INFORMATIO	ON	
*	# of samples	Relinquished to	Contact
Sediment	-	-	
Nutrients	3	NMS	T. Stark
Bacteria	1 -	-	-

Signature (Team Lead): Printed Name:

Of aastal Tara Stark

Team	Wailea	Samplers	A. Wolf	
Session	49	(Last Name, 1st Initial)	A.Allison	
Date	7/24/2020		T. Stark	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
WKD200724-N-1	Kilohana Dr	N		8:06	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB200724-N-1	Keawakapu Beach			8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL200724-N-1	Ulua Beach			8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL200724-N-1	Palauea				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO200724-N-1	Poolenalena				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments		
		500 ml

Signature (Team Lead):	Printed Name:	
Signature (Team Lead):	Trava Starle	