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

tilli O na Wai Ola

Session No: Verifiers (pre-sampling): Pre Date; Pre Time: Verifiers (post-sampling): Post Date: Post Time: 52 W. Brown Strokland 4/21/20 11:45am 1-5am M. Prown 4124120

0	WC					((A		9/29/20	
QA/QC Check	Inst#	Probe #	Last Cal Date		PR Verificati			ST: ion Value	Acceptable Range	Comments/ Notes	QA
emperature	NIST	n/a	n/a	Std Val	NIST 21,8 _C	NIST 28, Z°C	NIST 28.6 _℃	35.00	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	(n/a		27,7		27.8	,Tr		NIST EXP. 7/2021	
	2	2	n/a			28.0		35.0		Post NIST is for Salinity probe	#2
Salinity			3 months	Std Val	Tap water	Salin Std 8/201 date 35.0 ppt	Tap water ∂ -35	Salin Std 10 Pedate 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	2	1	8/10/20		0,35	35.2	_	_		used Horely STd.	
	2	2	8/10/20		0.34	35.0	0.35	35.5		Used Hack Std. opered: 1/13/20 8-expires: 8/2024	
Dissolved Oxygen			1 year	Std Val	100	0%	10	0%	± 5 %		
	2	1	10/18/19		98.	7	,				
	Z	2	10/18/19		103		103	.6			
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	
	2	3	9/21/20		7.6.99	9,99	-	_		PH: 6.99; 9.99	
	2	4	9/21/20		7.00	10.01	7-00	9.96			
Turbidity			3 months	Std Val	<u>BLANK</u> <0.1	LOW 1-10 NTU	BLANK <0.1	LOW 1-10NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	8/30/20		0.06	6.57	-	_	9	AL 80 6.60	
	7	n/a	8/10/20		0.08	6.35	0.05	6.35		1 6.31	

QA: * Are pre- and post within one week?

* Delay times are ok?

* Other equinment issues?

Team	Kamaole	Samplers	GRAVES, S_		Meters and	Probes ID		(6)
Session	52	(Last Name, 1st Initial)	Cut of Hery		HQ40d: 2		2100Q:	2
Date	9/22/20		Cyk, R.	V	pH: 4	DO: 2		Salinity: 2

	Ct			Salinity	Dissolved	Oxygen			T1:114		Entero	People	(within	100 ft)
Location Name Sample ID	Streams 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)		CFU	water	beach	camp	
Kalepolepo North NKN200922	N	7:56	26.8	34.6	6.01	91.2	8.10	3.91	3.26	2.90		0	0	0
Waipuilani Park KWP200922	N	8:13	25.4	33,5	6.20	92.8	8.00	21.1	22.9	22.5		/	2	0
Kihei South KKS200922	N	8:30	26.5	33.6	6.61	99.2		9.54				0	0	0
Kalama Park KKP200922	N	8:49	26.7	34.3	6.79	102.9	8.12	18.5	17.2	17.2		32	8	0
Cove Park KCP200922	N	9:04	27.5	34.4	6.38	97.5	8.10	3.61		3.49		0	2	0
										•				

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

KCP - BAIT BUCKET FLOADULG APPOX. 10' FROM SHORE

*Sites no longer sampled -, Mai Poina Oe Ia'u,

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.08	6,31	55.6	564
Pre-sampling	0.10	6.36	55.5	564
Post-sampling	0.05	6.36	55.9	564

	# of samples	Relinquished to	Contact
Sediment		-/	-
Nutrients	6	245	Mbrown

Signature (Team Lead):	Printed Names
MIL	MIRA STORING
I was the	Milloret. Con

Team	Kamaole	Samplers	graves S
Session	52	(Last Name, 1st Initial)	Heeht H.
Date	9/22/20		Str B

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN200922-N-1	Kalepolepo North			7:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP200922-N-1	Waipuilani Park	ď		8:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS200922-N-1	Kihei South	0		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP200922-N-1	Kalama Park	9		8:49	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP200922-N-1	Cove Park	0		9:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
					125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	
			500 ml	
			500 ml	

Signature (Team Lead):	Printed Name: 1	
Matt.	1111. Lell	A Trate No
Mey Oles	MULLE	procer

Team	Wailea-Makena	Samplers	ASSISON, A	sharge, N	Meters and	Probes ID	
Session	52	(Last Name, 1st Initial)	Dunning, 5	Sousa, B	HQ40d: 2		2100Q: 2
Date	9/23/20			`	pH: 4	DO: 2	Salinity: 2

				Salinity	Dissolved	Oxygen					Entero	Peopl	e (within	100 ft)
Location Name Sample ID	Streams 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)		CFU	water	beach	camp	
Kilohana Dr WKD200923	0	1:56	27	35.2	6.71	102.1	8,13	1.38	1.61	1.52		Ø	Z	0
Keawakapu Beach WKB200923	0	8:12	213	35,2	6.61	101.2	8.12	0.80	0.92	0.89		3	2	0
Ulua Beach WUL200923	8	8:27	27.2	35.0	6.72	102.5	8.11	1.54	1.55	1.33		3	E.	0
S Maluaka Beach MMB200923	8	8147	27.4	35.0	6.70	1028	8.15	0.85	0.92	1.03		0	(0
Ahihi Kinau North MAN200923	0	9.06	21.2	34.9	106	107.7	8.07	0,57	0.74	0.69		0	0	0
Ahihi Kinau South MAS200923	0	9.23	27.5	35:1	6.59	101.4	8.08	1.26	1.36	1039		2	0	0

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

* volunturs deant record blank in frei d

TURBIDITY VER	IFICATION .			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.31	55.6	564
Pre-sampling		6.37	55.5	566
Post-sampling	004	6.33	55.9	564

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	10	DHS	T. Starh				
Bacteria	-		-				

Printed Name:
Ti aya Stawk Signature (Team Lead):

Team	Wailea-Makena	Samplers	AHISONIA.	Shorpe, N.	
Session	52	(Last Name, 1st Initial)	D DOWN T	Sousa, D	
Date	09/23/20		Dunning, J.	3000-47 -	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
WKD200923-N-1	Kilohana Dr	rg/		7:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB200923-N-1	Keawakapu Beach	0		8:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL200923-N-1	Ulua Beach	₽,		8:17	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB200923-N-1	S Maluaka Beach	ß		8:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN200923-N-1	Ahihi Kinau North	۵		9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS200923-N-1	Ahihi Kinau South	B		9:23	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:	
Local V	Tiaro Stark	
90	11001	

Team	North Kihei Samplers G. Burvette T Stade	Meters and	Meters and Probes ID				
Session	52	(Last Name, 1st Initial)		HQ40d: 2		2100Q: 2	
Date	09/24/20		P. BULLY	pH: 4	DO: 2	Salinity: 2	

					Dissolved	Oxygen					Entero	Peopl	e (within	100 ft)
Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal		1 42	₹.C.	CFU	water	beach	camp
Maalaea Harbor NMH200924	N	7:45	24.0	34.2	6.41	95.5	8.05	1.59	212	1.31		0	0	0
Maalaea Condos NMC200924	N	8:10	26.3	33.5	6.87	1025	8,03	3.46	3.18	3.24		0	6	a
Haycraft Park NHP200924	7	8:27	26.7	34.7	6.71	101.4	8.10	2.80	2-99	2.80		0	2	0
Kealia Pond NKP200924	N	8:48	26.8	35.2	6.81	103.3	8.14	1.42	1.26	1.37		1)	0
Kihei Canoe Club NKC200924	N	9:10	27.8	34.9	6-72	103.5	8.11	1.28	3.12.	4.10 5-48		0	0	0

Use the back of the form if needed.	
NWC: MINGY	* Waitulia & Kithei rain
NHP: whelp NKP: SCUBA diver	

NKC:	suspended	material	in sample
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Sites with stream outflow: Kealia

* Tina obtenct
refresher tomos

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	6-31	55.6	564
Pre-sampling	0.09	6.37	55.5	565
Post-sampling	0.05	6.35	55.8	563

	# of samples	Relinquished to	Contact
Sediment	-	-	
Nutrients	5	DHS.	T. Stank
Bacteria	-	-	-

Signature (Team Lead):	Printed Name:	
Laas Stol	TiaraStarh	

Team	North Kihei	Samplers	G. Burrette	F. Bahr	
Session	52	(Last Name, 1st Initial)		1.150011	
Date	9/24/20		T. Starte		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH200924-N-1	Maalaea Harbor	A		7:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC200924-N-1	Maalaea Condos	D/		8:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP200924-N-1	Haycraft Park	التا		8:27	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP200924-N-1	Kealia Pond	0		8:48	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB200924-N-1	Sugar Beach				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	* site powsed
NKC200924-N-1	Kihei Canoe Club	4		9:10	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:	
Linast	TiavaStach	
		_