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



Session No: ssion No: Verifiers (pre-sampling): Verifiers (post-sampling):

Stock: D. Stricklond Pre Date: Pre Time: Post Date: Post Time: 5/4/20 10:30 am T

QA/QC Check	Inst #	Probe	Last Cal Date		Varific	PRE:		POST:	Acceptable Range	10:4	
Temperature	NIST	n/a	n/a	Std	NIST	NIST	NIST	ation Value NIST		Osmarita Hotes	(
	2			Val		21.7°c	°C	31,2 ℃	± 0.6 °C of NIST	ompare to 11101 but value in tap water	
	2	2	n/a n/a		28.5		-		-	5/4 pre: 24.4°C post: 25.2°C 5/8 pre: 23.8°C; post:	
			II/a			27.6		31.1		5/8 pre: 23.8°C; post:	
Salinity			3 months	Std Val	Tap water 0-13	2 <u>320</u> date 33-1 ppt	Tap water	Salin Std 3 20 date 3 3 1 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	2	1	5/4/20		0.14	33-2	-			Summy Std bottle	
	2	2	5/4/20		0.14	33-1	0.13	32.9			
Dissolved Oxygen			1 year	Std Val	10	0%	10	00%	, ± 5 %		
	2)	20/18/19		910	.8%					- 1
	2	2	10/18/19		101.1		100	.10/0			
pН			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	5/4/20		6.97	10.00					-
	2	4	5/4/20		7.03	10.00	7.03	10.0			
Γurbidity			3 months	Std Val	<0.1	LOW 1-10 6.45 _{NTU}	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	7	n/a	5/4/20		1 11	6.45	, 05	6.44		std: 6.45 (1000)	
		n/a									

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

* Delay times are ok?

* Other equipment issues?

Team Kamaole	Samplers	STARK, T	Meters and Probes ID				
Session	46	(Last Name, 1st Initial)	STRICKLAND, J	HQ40d: 2		2100Q: 2	
Date	5/5/20		0 1 101 0 11 [11] 0 3 0	pH: 4	DO: 2	Salinity:	

Logation Name	Streams	Time		Salinity	Dissolved		рН		T		Entero	People	e (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	JI	Turbidity (NTU)		CFU	water	beach	camp
Kalepolepo North NKN200505	808	80:8	24.4	31-4	6.51	92.8	8.15	295	9.83/	0.7	0	0	0	0
Waipuilani Park KWP200505	N	8.35	24.9	31.1	6.31	90.6	8.07	7.02	7.47	7.04	0	0	Z	0
Kihei South KKS200505	\sim	8:50	25.9	29.4	6.49	94.3	8.00	2.76	2,77	¥78	3 110	0	0	0
Kalama Park KKP200505	N	9:22	26.3	34.0	6.95	104.4	8.15	9.57	10.2	9.30	Ö	0	0	d
Cove Park KCP200505	N	9:42	26,7	29.2	6.97	101.1	8.10	6.79	27.517	3 39	30	0	O	0
Mai Poina Oe Iau NMP200505		10:08	26.0	32.0	6.81	100.5	8.09	10.4	9,240	7.67	0	0	4	0

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

nice & calm everywhere, flat, no wind

TURBIDITY VER	RIFICATION			MATTER
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.45	58.9	602
Pre-sampling	0.04	6.58.45	58,8	603
Post-sampling	0.05	6.44	59.3	600

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinguished to	Contact
Sediment	-	N -	-
Nutrients	6	DeMS.	J. Strickland
Bacteria	le	NMS	J. Strickland

Team	Kamaole	Samplers	Stark, T.
Session	46	(Last Name, 1st Initial)	Challent
Date	5/5/20		Strickland, J.

Sample ID	Location Name	sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
NKN200505-N-1	Kalepolepo North	8		8:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP200505-N-1	Waipuilani Park	Ø		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS200505-N-1	Kihei South	t d		8:58	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP200505-N-1	Kalama Park	DV		9:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP200505-N-1	Cove Park	o/		9:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP200505-N-1	Mai Poina Oe Iau	D		10:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments						A STATE OF THE PARTY OF THE PAR	
					500 ml		
					500 ml		
					500 ml		

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

Team		Samplers	Starle, T.	Meters and	Meters and Probes ID			
Session	46	(Last Name, 1st Initial)	Strickland, J.	HQ40d: 2		2100Q: 2		
Date	2/26/20 5 6 2	J.S.	O MC FLWW, 3.	рН: 4	DO: 2	Salinity: 2		

A	7 7								Pace.		DO. 2		Sammey: 2	•
Location Name	Streams	Time		Salinity	Dissolved	d Oxygen	pН		Total		Entero	Peopl	le (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		Turbidity (NTU)		CFU	water	beach	camp
Makena Landing MML200506	N	8:05	25.1	33.2	6.69	97.7	8.14	1.34	1.13	1.35	10	5	3	0
S Maluaka Beach MMB200506	N	8:30	25.4	33.5	6.71	98.7	8.14	0.57	0.48	0.52	0	6	5	0
Oneuli MON200506							0.11	3,16		2.46				
Ahihi Kinau North MAN200506	7	9:05	25.3	34.2	7.22	106.4	8.13	490	5.43	6:23	10	0	0	0
Ahihi Kinau South MAS200506	2	9:30	25.2	34.3	6.76	99.5	8-13	1	1	7	0	4)	0

NOTES AND COMP Use the back of the fe	MENTS (trends, equipment problems form if needed.	, errors, concerns).
MML: 2	2 canoes new sample	ste, Aat Q
MMB: cle	eur, flat, nowind	clear
oreuli:	gate closed, couldn't	+ get in - to
MAN: SN	nall waves, constan	nt & rough to walk all the way
La did	nall waves, constant a salinity & D.O. 2x umbers were the same	a Carrier o

TURBIDITY VEH	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.45	58.9	602
Pre-sampling	0.04	6.44	50.7	601
Post-sampling	0.05	6.37	599	602

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	<u> -</u>					
Nutrients	4	NMS	T. Stark				
Bacteria	4	NMS	TStark				

Signature (Team Lead):	Printed Name:	
of orall	Tiafa Stark	-

Sites with streams/outflows: Makena Landing

Team	Makena	Samplers	StarkIT.	
Session	46	(Last Name, 1st Initial)		
Date	2/26/20 5/6	20	Strickland, J.	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
MML200506-N-1	Makena Landing	₽/		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB200506-N-1	South Maluaka Beach	4		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON200506-N-1	Oneuli			Ø	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN200506-N-1	Ahihi-Kinau North			9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS200506-N-1	Ahihi-Kinau South	0		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments							
			CONTROL MARKET		23222		SERVICE CONTROL OF
					500 ml		
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Team Lead):	Printed Name:	
Linasth	Tiara Stark	
0		_

Team	North Kihei	Samplers SITOMONO.	Meters and	l Probes ID		
Session	46	(Last Name, 1st Initial)		HQ40d: 2		21000: 2
Date	5/7/2020		" Stark, T.			2100Q: 2
	3/1/2020 1.	pH: 4	DO: 2	Salinity: 2		

Logation Name	Streams	Time	Temp	Salinity	Dissolve	d Oxygen					Entero	Peop	le (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 NMH200507		0:02	24.7	340	6.72	97.8	8,14	3.57	3.98	7.59	10	0	0	0
Maalaea Condos NMC200507		8:16	24.7	32.5	7.47	107.8	8.17	90	7.40	15.8	0	0	0	0
Haycraft Park NHP200507		8:35	24.7	33.9	7.03	102-1	8.15	6.99	7	0,00	20	0	4	0
Kealia Pond NKP200507		9:02	24.8	34,8	1.98	1077	911	1.99	1.95	193	50	()	2	0
Sugar Beach NSB200507		9:20	25.2	34.4	6.87	103.0	8.13	72.78	7.37	345	0	D	3	0
Kihei Canoe Club NKC200507		9:41	25.9	33.7	6.90	102.5	9 11	7.28	8.80	791	70	7	7	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns). Use the back of the form if needed.
NMH- 20' ZODIAL PASSING BY ABOUT 30' AWAY; wireby NMC: Did Do/Salinity 2x, same; law tide; surt
NHT: water looked tirty windly
MKC: listemmen Liaspas
Sites with streams/outflows: Kealia Pond

TURBIDITY VERIFICATION							
	Blank (must be <0.10)	Low	Med	High			
Standard	0.05	6.45	58.9	602			
Pre-sampling	0.04	6.31	58.6	602			
Post-sampling	0.04	6.43	58.8	600			

CHAIN OF CUS	STODY INFORMATION	ON			
	# of samples	Relinquished to	Contact		
Sediment	-	-	-		
Nutrients	6	多 NMS	T. Stark		
Bacteria	6	2MN-	T. Stark T. Stark		

Signature (Feam Lead):	Printed	Name:
42-8/3	John	Stricklood
/	0 1 113	5 111 6110110

Team	North Kihei	Samplers	Strickland 1J.
Session	46	(Last Name, 1st Initial)	Stark, T.
Date	05/7/2020	150 2111(111)	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH200507-N-1	Maalaea Harbor	M		8:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC200507-N-1	Maalaea Condos	Ą		8:16	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP200507-N-1	Haycraft Park	.⊠		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP200507-N-1	Kealia Pond	N		9:02	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB200507-N-1	Sugar Beach	Ŋ		9:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC200507-N-1	Kihei Canoe Club	4		9:41	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):

Printed Name:
Tiara Stavu

Team Wailea	Samplers	Strickland, J.	Meters and Probes ID			
Session 46	(Last Name, 1st Initial)		HQ40d: 2		2100Q:	2
Date 5/8/2020		Stave, T.	pH: 4	DO: 2		Salinity: 2

T	Streams	Time		Salinity	Dissolved	d Oxygen		ACT E			Entero	Peopl	e (within	100 ft)
Location Name Sample ID	Flowing (Y/N)	(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 WKD200508	N	8:00	24.9	34.5	6.92	101.4	8.14	2/36	1-23	1.90	0	0	5	0
Keawakapu Beach WKB200508	N	8:22	25.0	34.6	6.92	101.8	8.15	1.06	1.02	1.7	0	2	^1	0
Ulua Beach WUL200508	2	854	25.1	33.9	6.80	100.0	8.12	1,41	1.77	2.65	10	9	0	0
Palauea WPL200508	2	9:30	25.4	34.4	6.82		8.17	2.34	743	2.21	7	2	3	0
Poolenalena WPO200508	N	9:42	55.6	33.9	6.92	107.5	6.10	1 1.4	0 2	0,48	0	1	0	0

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

McD: smelt of poop (really load) by water & car/street

WKB: no stinky smell

WUL peter a Shops & walk;

Turbidity (noticed suspended matter)

TURBIDITY VEH	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.45	58.9	602
Pre-sampling	0.05	6.44	58.8	602
Post-sampling	0.05	6.44	58.9	602

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	5	NMS	JStricklo				
Bacteria	5 -	MMS	J Strukl				

Signature (Team Lead): Printed Name:

James Strill and

Team	Wailea	Samplers	Stack T
Session	46	(Last Name, 1st Initial)	Starkil
Date	5/8/2020	ist initial)	Stricklond, 5

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
WKD200508-N-1	Kilohana Dr	D		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB200508-N-1	Keawakapu Beach	D		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL200508-N-1	Ulua Beach	ф		8:54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL2002028-N-1	Palauea	of,		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO200508-N-1	Poolenalena	td/		9:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:	C
Like	Jomes	1 tricklons