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



C · N	Verificus (nue compling):	s (pre-sampling): Pre Date: Pre Time:			Post Date:	Post Time:
Session No:	Verifiers (pre-sampling):	Tie Date.	Tie Time.	Verifiers (post-sampling):	1 10 2020	INAA
55	Tistark, J Strickland	11/16/20	12:45 pm	m, Brown	111 19 12000	1000

QA/QC Check	Inst#	Probe #	Last Cal Date		PR Verificati		POS Verificati		Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	n/a	Std Val	NIST 26.1 °C	<u>NIST</u> 26,4 °C	NIST 27.4°C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	١)	n/a		26.3		27.2				
	1	2	n/a			26.3					
Salinity			3 months	Std Val	Tap water	Salin Std 9/25 date 35.0ppt	Tap water	Salin Std 1/2/2 date 3 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	1	11/16/20		,33	34.8	.33	35.2			
	1	2	1416/20		.33	34.8					
Dissolved Oxygen			1 year	Std Val	10	0%	100%		± 5 %		
	ı	1									
	1	2	10/18/20		100	5.3	100).6			WILE.
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	11/16/20		7.01	9,97	6.98	10,0			
	1	4	11/16/20		7.01	9.99	-	_			
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	BLANK <0.1	LOW 1-10	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
	1	n/a	11/16/20		0.08	6.59	0.06	6.61		Law STD: 6.60	
	2	n/a	11/16/20		0.07	6.39				LOW STD: 6.39	

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

* Other equinment issues?

Team Kamaole Samplers
(Last Name, 1st Initial)

Date 11/17/20

Cyr, R-97.6 Cyr, R-97.6

Meters and Probes ID
HO40d: 1 2100Q: 1

pH: 3 DO: 2 Salinity: 1

				Salinity	Dissolved	Oxygen			Turbidity		Entero	People	(within 1	00 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	(NTU)		CFU	water	beach	camp	
Kalepolepo North NKN201117	N	7.58	25.7	35.4	Ce. 22	92.8	8,11	1.79	2.20	2.13		0	1	0
Waipuilani Park KWP201117	N	8:12	24.6	33.1	6.49	94.1	8,02	23.0	23.8	23.7		0	3	0
Kihei South KKS201117	N	8:33	25.6	34.4	6.38	94.6	8,10	2,99	292	2.94		3	0	0
Kalama Park KKP201117	N	8:48	2613	35.0	6156	98.8	8.13	4.04	4.32	4.72		4	4	0
Cove Park KCP201117	N	9:07	24.5	34,4	6.26	94.2	8,11	234	3.16	3,03		0	3	U
	l											0.		

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

* Spenfisher min = KKP

*Sites no longer sampled -, Mai Poina Oe Ia'u, ppT MGL 0741 KWP 2ND Reading 33.2 651 94.1

	Blank	Low	Med	High
	(must be <0.10)	LOW	Iviou	Ingii
Standard	0.08	6.60	58.6	593
Pre-sampling	0.08	6.60	58,2	592
Post-sampling	0.09	6.102	68.8	593

	# of samples	Relinquished to	Contact
Sediment	-/	9 , - ,	
Nutrients	5	dos	M Boon

and the second s	
Signature (Team Lead):	Printed Name:
11/11/11	Milah Knach
III MATERIAL TO THE STATE OF TH	THE PROUN

Team	Kamaole	Samplers	Heelt H	CyrR	
Session	55	(Last Name, 1st Initial)	Graves 5	Cyo M	
Date	11/17/20			JE M	

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN201117-N-1	Kalepolepo North			7:58	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP201117-N-1 Waipuilani Park		125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters				
KKS201117-N-1	Kihei South	Ø		8:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP201117-N-1	Kalama Park	9		81.48	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP201117-N-1	Cove Park	Ø		9:07	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
75					125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments				
			500 ml	
			500 ml	
			500 ml	

Signature (Veam/1	cady:	Printed Name:	Brown

Team	Wailea-Makena	Samplers	Wolf A. Strarte M. Sousa B	Meters and	Probes ID		
Session	55	(Last Name, 1st Initial)	, , , , , , , , , , , , , , , , , , , ,	HQ40d: 1		2100Q: 1	
Date	11/18/20			pH: 3	DO: 2		Salinity: 1

				Salinity	Dissolved	l Oxygen		12.47			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 WKD201118	N	7155	26.0	35.5	6.63	99.7	8-11	0.89	0.92	0.96		1	7	0
Keawakapu Beach WKB201118	\sim	8:14	26.2	35.5	6.51	98.2	8.12	0.5)	0.58	0.56	,	0	4	0
Ulua Beach WUL201118	\sim	8:43	26.3	35.5	6.54	98.9	8.13	0.78	0,84	0.87		3	4	\Diamond
S Maluaka Beach MMB201118	Wist,	9:17	26.2	35.4	6.43	97.2	8.13	0.58	0.65	9,59		*5	\bigcirc	0
Ahihi Kinau North MAN201118	\wedge	9:27	26.1	35.2	6.12	92.2	8.00	0.81		0.86		2	4	8
Ahihi Kinau South MAS201118	N	9:50	26.3	35.3	650	98.3	8.10	1.37	1.43	1,60		6	0	0

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

WUL- in other bottle marked with green tape.

The one tour boat leaving shore

Nolunteers forget todo Pre-sampling turbidity

TURBIDITY VERIFICATION										
	Blank (must be <0.10)	Low	Med	High						
Standard	0.17	6.38	58.2	593						
Pre-sampling										
Post-sampling	0.11	6.55	58.5	596						

CHAIN OF CUSTODY INFORMATION									
	# of samples	of samples Relinquished to							
Sediment	-		-						
Nutrients	6	DHS	T. Stark						
Bacteria	-	-	-						

Signature (Team Lead):	Printed Name:	
diagh	Tiara Starh	

Team	Wailea-Makena	Samplers	Wolf, A.		D
Session	55	(Last Name, 1st Initial)	Cl = 500 h	Sousai	D.
Date	11/18/20		Sharpe, M.		

WKD201118-N-1 Kilohana Dr	Sample ID	Sample ID Location Name		Duplicate sample?	Time	Volume	Protocol Notes	Comments
WKB201118-N-1 Keawakapu Beach WKB201118-N-1 Keawakapu Beach Wull 201118-N-1 Ulua Beach Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	utrients							
WUL201118-N-1 Ulua Beach Ulu	WKD201118-N-1	Kilohana Dr	Ø		7:55	125 ml		4
MMB201118-N-1 S Maluaka Beach S Maluaka Beach MAN201118-N-1 Ahihi Kinau North S Maluaka Beach S Maluak	WKB201118-N-1	CR201118_N_1 Keawakanu Beach Washed, rinsed syringes; acid						
MAN201118-N-1 Ahihi Kinau North	WUL201118-N-1	Ulua Beach	0/		8:43	125 ml		
bottles; 0.2 um disposable filters	MMB201118-N-1	S Maluaka Beach			9:17	125 ml		
Washed, rinsed syringes; acid washed	MAN201118-N-1	Ahihi Kinau North	D/		9:27	125 ml		
MAS201118-N-1 Ahini Kinau South 4 9:50 125 ml bottles; 0.2 um disposable filters	MAS201118-N-1	Ahihi Kinau South	Q		9:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
	ediments							
ediments						500 ml		

Sediments			
		500 ml	

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

North Kihei Team 55 Session 11/19/20

Date

BUNNETTE, G. BAHM, F Samplers (Last Name, 1st Initial)

Meters and Probes ID

HQ40d: 1

2100Q: 1

pH: 3

DO: 2

Salinity: 1

				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
Maalaea Harbor NMH201119		7:45 Am	25.1	34.7 FB.	6.14	90.5	8.10	0.70	0.73	0.81		0	8	0
Maalaea Condos NMC201119		8:05	24.9	34.8	6.67	98.3	8.07	7.55	8.00	7.72		0	0	0
Haycraft Park NHP201119		8:30	25.4	34.9	6.33	94.2	8.11	1.90	2.12	2.16		0	0	0
Kealia Pond NKP201119	N	8:56	25.6	35.5	6.64	99.4	8.11	0.89	0.87	0.80		¥	2	0
Kihei Canoe Club NKC201119		9:17	26.6	35.2	6.55	99.5	8.11	0.49	0.63	0.53		0	2	0

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

pH Prone - No KCI in bottle after 15th beach
HQ 40d meter - shut off rumerous times when
pressing near button
NMC beach - unusually hightide

Sites with stream outflow: Kealia

TURBIDITY VERI	TURBIDITY VERIFICATION										
	Blank (must be <0.10)	Low	Med	High							
Standard	0.11	6.60	58.6	593							
Pre-sampling	0.07	6.64	58.4	603							
Post-sampling	0.66	6.61	58.5	594							

CHAIN OF CUS	STODY INFORMATION	ON	
24	# of samples	Relinquished to	Contact
Sediment	-	-,	7
Nutrients	5	des	Morom
Bacteria	-	-	-

Signature (Team Lead):

Printed Names

Team	North Kihei	Samplers	Burnette G.
Session	55	(Last Name, 1st Initial)	Bahn F
Date	11/19/20		During

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients		/					
NMH201119-N-1	Maalaea Harbor	Þ		7:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC201119-N-1	Maalaea Condos	13/		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP201119-N-1	Haycraft Park	Ø		8.30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP201119-N-1	Kealia Pond	8		8.56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC201119-N-1	Kihei Canoe Club	4		9:17	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	
		500 ml	-
		500 ml	
		500 ml	

Signature (Feam Lead):	Printed Name: / /
2/1/1	M M M Son
10/10	I How Brown
/	,