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

	9	Session No:
	G. BURLETT L OFORD	Verifiers:
, ,	3/5/18	Pre date:
	51:15	Pre time:
	311115	Post: Date:
	11:00	Post time:



		рН			Dissolved Oxygen			Salinity			Temperature	QA/QC Check
1	1		2*	1		-	1		-	-		Inst#
2	1		N	-		2	_		2	1		Probe#
3/5/18	3/8/18								n/a	n/a	n/a	Last Cal Date
		Std			Std			Std			Std	
7.03	7.03	7.00	99.0%	98.3%	100%	0.14	0.14	0.13		21.5	21.2 (Proses) (Proses)	Verificat
10.05	10.04	10.01	1/20	3%	%	34.0	33.9	33.0	21.5		(Prose 2)	PRE: Verification Value
١	40.4	s H	ı	3.36	100%	1	810	012		24.6	24.4	PO Verificat
١	40.01	10.01	,	6	'	i	73.7	33.0			4	POST: Verification Value
		± 3 % of calibration solution (6-8)			Post-check ± 5 % of pre-check (0- 100%)			± 3%, blank			±1°C of NIST	Acceptable Range (Check range)
		6.79 - 7.21			80 - 120 %			33.95 - 36.05			Within 1°C	Comments/ Notes
												QA?

^{*} Are pre- and post within one week? * SWAMED ON METER I AND USED

[&]quot;Other equipment issues? NETEN # 2 BECASE NETEN #1 WOULD SHUT ETSELF OTHER EQUIPMENT HOW SHUT ETSELF TENES AND WETH DEFRENCENT PROBLE.

Team Kamaole	Complete	KNOWN IN PASELK, S HOWARD,	PASELK, S	GOWO'F	Meters and Probes ID	bes ID	
The state of the s	Samplers	prov.			160	,	
Session 9	(Last Name,	RUNWETT 6			HQ40d: 600 2	2	2100Q: 1
	(1817 Intrat)	0000					
Date 03/06/18					pH: 1	DO: 1	Salinity

	Kamaole III	Kamaole I KKO180306	Cove Park KCP180306	Kalama Park KKP180306	Kihei South KKS180306	Waipuilani Park KWP180306	Sample ID	Location Name
	9:30	9.10	9:51	8:33	8:15		Time	
	24.7	34.8	24.4	&3. U	8:15 23.4 32.9	7.19	(00)	Temp
	9:30 24.7 34.9 6.76 99.1 8.18 1.05 .42	9.10 24.8 35.0	8:51 24.4 33.3 6.50 43.8 8.14 2.65 3.22 3.94	8:33 23.5 54.6	32.9	7.56 21.4 31.9	(ppt)	Salinity
	6.76	4.77 99.2 8.19 78 .87	6.50	6.79 97.2 8.16 9.08 10.2 10.5	4.22	683	(mg/L) (%)	Dissolved Oxygen
	98.1	99.2	43.8	97.2	87.9	93.3	(%)	lved
	8.18	8.19	41.8	8,16	87,9 8.13 760 760 7.27	93.3 8.09 24.7 26.3 26.2	71	Ž.
1	1.05	* 78	2.65	9.08	760	24,7		_
	. 42	.87	3-22	20,0	7.60	26.3	(NIO)	Turbidity
-	, 77	80,4	3,94	10.5	7,27	200		
	0	1-	-	(N)	-	de	(0-3)	Waves
Waves: 0ft	-	0	0	-	1	0	(0-0)	Wind
no waves; dm; 3: gent	6	2	20	4	-	0	water	People
Ift: small w le breeze; 6:	30	12	0	0	N	-	beach	People (within 100 ft)
Waves: 0ft: no waves; 1ft: small waves; 2ft: knee Wind: 0: calm: 3: gentle breeze; 6: strong breeze	6	0	1	0	0	•	camp	(1) 001
ice high; 3f	0	0	0	0	0	0		SST
Waves: 0ft: no waves; Ift: small waves; 2ft: knee high; 3ft: waist high Wind: 0: calm; 3: gentle breeze; 6: strong breeze	0	0	0	0	0	0		Nutrient

Roud on the	Short yell and	HOPE		20	High: 6:34 am (falling)	Low: 12:34 pm	CONDITIONS	
CHAIN OF CUSTODY INFORMATION		Post-sampling 0.05	Pre-sampling		Standard		TURBIDITY VERIFICATION	
TODY INFOR		20.05	0.05		0.07	Blank	RIFICATION	
MATION		30.5	6,01		505	Low		
		56.9	8.05	17	36.6	Med		
		3	(

Most recent tide time (falling or rising)

COASTAL AND ENVIRONMENTAL CONDITIONS

Moon day (from new) Cloud cover (0-8)

USED HOHOR #Z DUE TO PRODUCTS WOTH MOTOR #1

Rain conditions (last 24 hrs)
Wind direction (Trades/Kona)
Streams flowing? (Y/N)

₹

	# of samples	Relinquished to	Contact
Sediment	0		
Nutrients	6	MAS	GENCE BULLETE
Bacteria	0		

Signature Team Leads: Printed Name: Signature Team Leads: Printed Name: Brinted Name:

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients		,					
KWP180306-N-1	Waipuilani Park		0	7:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS180306-N-1	Kihei South		0	8:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP180306-N-1	Kalama Park	4	0	8:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP180306-N-I	Cove Park	4	0	15:3	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKO180306-N-1	Kamaole I	R	0	9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKT180306-N-1	Kamaole III	B	0	9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
			0		500 ml		
		0	0		500 ml		
		0	0		500 ml		
		0	0		500 ml		
			0		500 ml		
		0	0		500 ml		

Signature Fram Leady & Could C. Bartant To

100		_		_
Sami		Date	Session	Team
Sample ID		03/07/18	9	Makena
Time				
(°C)	1		(Last Name, 1st Initial)	Samplers
(ppt)	C. H. II			
(mg/L) (%)	Dissolved Oxygen	Jes , 8	Dunining, J	carpe, M
%)	ygen	1	N E	4
рН			Nack	to eve
Turbidity (NTU)		300	Ringret a	Withberger, The
Waves (0-3)				
(0-6)	Wind (0-6)		HQ40d:	Meters
water	People		-	Meters and Probes ID
water beach camp	People (within 100 ft)	DO: 1		es ID
camp	100 ft)		2100Q:	
TSS		Salinity:	-	
duplicate		y: 1		

		1	Callina	Dissolved Oxygen	Oxygen			Tuekidiku		Warne	Wind	People	People (within 100 ft)	00 ft)		production
Sample ID	Time	(C)	(ppt)	(mg/L) (%)	(%)	рН		(NTU)		(0-3)	(0-6)	water	beach	camp	TSS	duplicate
Makena Landing MML180307	8:13	23.7	8:13 23.7 35.1 6.71 96.7 8.16 1.57 2.071.89	14:9	917	8.16	15:1	2071	189	1	Ø	Ø	B	B	0	0
S Maluaka Beach MMB180307	8:30	23.8	8:30 23.8 34.7 6.84 98.6 8.18 0.79 1.06	6.84	98.6	81.8	0.79	1.060	0.89	_	B	W	ŋ	Ø		0
Oneuli MON180307	8:58	23.9	8:58 23.9 35.6 6.81 98.7 8.142.12 2.152.06	6.81	98.7	41.8	2.12	2.15	30.	_	Ø	N N	Ŋ	B	0	0
Makena Beach MBS180307	9/19	24.3	9:19 24.3 357 6.80 99.5 8.20 0.37 0.360.35	6.80	99.5	8.20	0.37	0,360	24.6	1	B.	B	30	B	0	
Ahihi Kinau North MAN180307	9:50	24.6	9:5024.635.4 7.55/10.8 8.16 0.740.72 0.73	7.55	8.011	8.16	0.74	0,720	0.73	B	1	6	0/8	Ø	0	
Ahthi Kinau South 9:55 23.9 34.8 6.78 98.5 8.08 0.94 0.80 0.84 /	9:55	23.9	34,8	6.78	98.5	80.8	0.94	0.800	2.84	\	Ø	10 20 X	20	Ø		

Wind: 0: calm;	Waves: Off: no
Wind: 0: calm; 3: gentle breeze; 6: strong breeze	waves; lift small
6: strong breeze	waves; 2ft; knee
	Waves: Oft: no waves; 1ft: small waves; 2ft: knee high; 3ft: waist high

COASTAL AND ENVIRONMENTAL CONDITIONS	CONDITIONS
Most recent tide time (falling or rising)	Low: 1:05 pm High: 6:45 am (falling)
Moon day (from new)	21
Cloud cover (0-8)	4
Rain conditions (last 24 hrs)	8
Wind direction (Trades/Kona)	to we haves
Streams flowing? (Y/N)	B

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	equipment problems, errors, concerns).

URBIDITY VERIFICATION	RIFICATION	_		
	Blank,	Low	Med	High
Standard	20.0	59.3	36.6	590
Pre-sampling	0.04	5,97	56.8	591
Post-sampling	0.03	83.9	8.35	195

	# of samples	Relinquished to	Contact
Sediment	0		
Nutrients	6	NAS	Esithe BurNER
Bacteria	0		

Signature (Team Lead): Printed Name: Printed Name: S

Date	Session	Team
03/07/18	9	Makena
	(Last Name, 1st Initial)	Samplers

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
MML180307-N-1	Makena Landing		0	8:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB180307-N-1	South Maluaka Beach	R	0	8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON180307-N-1	Oneuli	E.	0	85:3	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MBS180307-N-1	Makena Beach Shoreline	R	0	9:19	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN180307-N-1	Ahihi-Kinau North	_Œ	0	9:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS180307-N-1	Ahihi-Kinau South	EK.	0	9:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		0	0		500 ml		
		0	0		500 ml		
		0	0		500 ml		
		0	0		500 ml		
			0		500 ml		
)				

Signature (Team Lead); Printed Name: Signature (

North Kihei Samplers (Last Name, (Last Name, 1st Initial) (Last Name) (Last Na	10.00	B	D					
Samplers (Land Nove . Meters and Probes ID (Last Name, Land) Kaling House . Ho	Salinity: 1	DO: 1	pH: 1		11.9		03/08/18	Date
Samplers Linux North . Meters and Pro	2100Q: 1	110	HQ40d X		Karny	(Last Name, 1st Initial)	9	Session
		robes ID	Meters and P	Note:	Penu	Samplers	North Kihei	Team

	nee his	weer 2ft ko	D. small us	Wayse Offe no wayse 16: email wayses 2ft; knee high: 3ft; waist high	Worse Off								-			1
	0	-	0	0	2	0	18.9	4 3	4.46	8.16	t. tb	6.96	9:47 23.3 32.1 6.96 97.7 8.16 4.45 5.17	23.3	th:10	Kalepolepo North NKN180308
Sout.	0	0	2	0	-	0_	3.75	4.21	3.60	8.13	8.56	14.9	9.27 23.3 34.0 6.71 95.8 8.13 3.60 4.21	23.3	trip	Mai Poina Oe Iau NMP180308
1	0	0	n	0	-	0	06:12	Sec.	1.57	8.15	96.9	6.72	9:10 23.9 35.1 6.72 96.9 8.15 1.57 2:30	23.9	01:10	Kihei Canoe Club NKC180308
		0	P	a	0	7	87.73	1.8	1.62	8,17	98.0	6.88	8:50 23.6 35.7 6.88 98.08,17 1.62 1.89	23.6	05:8	Sugar Beach NSB180308
-	0	0	0	0	1	1	101	1.37	0.93	8.19	98,5	6.94	35.7 6.9x 98,5 9.19 0.93 1.37	8:30 23	8:30	Kealia Pond NKP180308
1	0	0	0	0	دو	0	75.61	5,4	5,56	8.14	96.1	6.79	8:01 22.9 34.5 6.79 96.1 8.14 5.56 5.47	22.9	8:5%	Haycraft Park NHP180308
0	100	camp	beach	water	(0-6)	(0-3)	0	(NTU)		рĦ	(%)	(mg/L) (%)	(ppt)	് റ	Time	Sample ID
0	To	100 ft)	People (within 100 ft)	People	Wind	Waves	ity	Turbidity			Oxygen	Dissolved Oxygen	Salinity	Temp		Location Name

COASTAL AND ENVIRONMENTAL CONDITIONS	CONDITIONS
Most recent tide time (falling or rising)	Low: 1:45 pm High: 6:34 am (F)
Moon day (from new)	21
Cloud cover (0-8)	4
Rain conditions (last 24 hrs)	drizele
Wind direction (Trades/Kona)	trades
Streams flowing? (Y/N)	N

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	Blank	Low	Med	High
Standard	0.03	5.95	56.6	590
Pre-sampling	0,04	6.05 56.6	56.6	590
Post-sampling	0.03	80.0	4.92	165

CHAIN OF CL	CHAIN OF CUSTODY INFORMATION	TION	
	# of samples	Relinquished to	Contact
Sediment			
Nutrients	6	NMS	Sofia
Bacteria			

Signature (Team Lead): Printed Name:

Date	Session	Team
03/08/18	9	North Kihei
	(Last Name, 1st Initial)	Samplers
Chan 16	1, ml mandt	J. CAN
		Great, N

						Sediments	NKN180308-N-1	NMP180308-N-1	NKC180308-N-1	NSB180308-N-1	NKP180308-N-1	NHP180308-N-1	Nutrients	Sample ID
							Kalepolepo North	Mai Poina Oe Iau	Kihei Canoe Club	Sugar Beach	Kealia Pond	Haycraft Park		Location Name
0	0	0	0	0	0		団	P	Д	K	R	R		Sample taken?
0	0	0	0	0	0		0	0	0	0	0	0		Storm sample?
							441.6	q:27	9:16	9:50	8:30	99:8		Time
500 ml		125 ml		Volume										
							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		Protocol Notes
														Comments

Signature (Team Lead):
Fall (6)

Sotia de la Fra

Team Wailea S	dime	Samplers		7)					Meters	Meters and Probes ID	es ID			
Session 9		(Last Name, 1st Initial)	3"	Janvie J.	6						HQ40d:	-		2100Q:		
-		Terminal ler														The same of the same of
Date 03/09/18				of the state of	7	5					pH: 1		DO: 1		Salinity: 1	n 1
I ocation Nama		Tama	Sallaitu	Dissolved Oxygen	Oxygen			"meldidite		Waves	Wind	People	People (within 100 ft)	00 ft)		N
Sample ID	Time	Ĉ	(°C) (ppt)	(mg/L) (%)	(%)	рН		(NTU)		(0-3)	(0-6)	water beach		camp	TSS	duplicate
Kilohana Dr WKD180309	7:57	22.(35.3	7.57 72.135.3 7.00 98.0 8.18 0.60 0.63	98.0	81.8	0.60	0.63	0.59	/	R	O3	W	0	0	0
Keawakapu Beach 8.20 23, 3 44, 8 6, 94 97, 2 8, 17 0, 98 1.57	8.20	2.CC	8.14	6.94	2,50	11,8	0.98	15.1	10.1	\	n	4	12	0	0	0
The second secon	-	The real Party lies have been dealer and the least and the	-	-						CANCELLINES			The second secon		-	

99.4 9.20 0.31 0.35 0.37 3 4 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		_	643	
WN		99.4	9.th	
WN		8.20	41.8	
WN		15.0	21.1	
WN		0.33	01.1	
WN		16.0	80.1	
S 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	W	N	
O O O O O O O O O O O O O O O O O O O	Vaves: 0ft: Vind: 0: ca	4	W	
ft: small waves; 2ft: knee high; 3ft: waist high	no waves; I	/	0	
O	ft: small wa breeze; 6::	7	9	
ce high; 3ft waist high	ves; 2ft: kno strong breez	0	0	
C waist high	ee high; 3f			
	t waist high		0	

COASTAL AND ENVIRONMENTAL CONDITIONS	CONDITIONS
Most recent tide time (falling or rising)	Low: 2:57pm High: 11:14pm, 03/08/18 (F)
Moon day (from new)	22
Cloud cover (0-8)	83
Rain conditions (last 24 hrs)	Z
Wind direction (Trades/Kona)	7
Streams flowing? (Y/N)	Z

Wailea Beach WWA180309

9/13 22.9

35.3

6.93

98.3

8.18

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18.0 86.0

Ulua Beach WUL180309

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Post-sampling (Pre-sampling (Standard (
20.0	0.05	0.03	Blank
6.06	6.00	5.95	Low
4.95	8.95	56.6	Med
-155	165	590	High

CHAIN OF CU	CHAIN OF CUSTODY INFORMATION	TON	
	# of samples	Relinquished to	Contact
Sediment			
Nutrients	ล	SWN	Sofia
Bacteria			

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	Session	Team
02/23/18	00	Wailea
	(Last Name, 1st Initial)	Samplers
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Canada III		Sample	Storm				,
Nutrients		to the same	onto pre-				
WKD180309-N-1	Kilohana Dr	6	0	15:t	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB180309-N-1	Keawakapu Beach	D	0	8.20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL180309-N-1	Ulua Beach	B	0	45:8	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WWA180309-N-1	Wailea Beach	В	0	9:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL180309-N-1	Palauca	艮	0	9:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO180309-N-1	Poolenalena	B	0	[0:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
		0	0		500 ml		
					500 ml		
					500 ml		
		0			500 ml		
		0			500 ml		
		0	0		500 ml		

Signature (Team Lead):

So ha du D 2408