Hui O Ka Wai Ola, 09/27/2017

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

	105. 0. 201 1.0.1.		and the same of th		
Session No:	Verifiers:	Pre date:	Pre time:	Post: Date:	Post time:
0	G. RUNGER L UTOMO	2/19/18	9:25	2/23/18	12:35
N N	The Parkette Colone	16/11/10	1.63	1 601	La contraction of the contractio



QA/QC Check	Inst#	Probe#	Last Cal Date		PR Verificati	tE: ion Value	Verifica	OST: tion Value	Acceptable Range (Check range)	Comments/ Notes	QA?
Temperature			n/a	Std	(PRODE2)		(Pros)	3	± 1°C of NIST	Within 1°C	
	2	2	n/a		21.1		25	.4			
	2	1	n/a			21.0	_				
Salinity				Std	0.13	33.0	0.13	33.0 pot	± 3%, blank	33.95 – 36.05	
	2	2	12/18/17		0.12	34.0	0.12	33.7 ppt			
	2	1	12/18/17		0.12	33.6	_	_			
Dissolved Oxygen				Std	100	%	/00	%	Post-check ± 5 % of pre-check (0- 100%)	80 – 120 %	
	2	2	9/19/17		97.	97.9%		9%			
	2	1	9/19/17		99.	3%	-	_			
рН				Std	7.00	10.01	7.00	10,01	± 3 % of calibration solution (6-8)	6.79 – 7.21	
	2	2	2/19/18		7.03	10.06	7.05	10.07			
	2	1	2/19/18		7.03	10.05	-	-			

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

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Kamaole	Samplers	Scott SGRAVES BURNETE, 6	Meters and Probes ID	
Session	8	(Last Name, 1st Initial)	Steve PeselK	HQ40d: 2	2100Q: 2
Date	02/20/18	1st initial)	Andry Quinn Donna Howard	pH: 2 DO: 2	Salinity: 2

Location Name		Temp	Salinity	Disso Oxy				Turbidity	ty Waves		Wind	People (within 100 ft)			TSS	Nutrient
Sample ID	Time	(°C)	(ppt)	(mg/L)	(%)	pН		(NTU)		(0-3)	(0-3) (0-6)	-6) water	r beach	camp		duplicate
Waipuilani Park KWP180220	7:54	22.5	33-6	6.68	93.5	8.08	27.7	27.2	28.3	1	3	٥	5	3	0	0
Kihei South KKS180220	8:20	24.0	33.9	4.50	93.6	8.14	9.26	10.4	9.94	0	3	3	4	0		
Kalama Park KKP180220	8:42	23.8	34.5	4.77	97.5	8.17	7.72		8.48	3	0	0	0	Ö		0
Cove Park KCP180220	9:01	24.7	33.5	6.47	94.0	8.13	1.58	1.91	1.59	2	3	10	0	0		
Kamaole I KKO180220	9:14	24.9	35.4	6.88	101.4	8.18	2.55	2.49	2.66	2	2	15	20	0		0
Kamaole III KKT180220	9:34	24.9	35.4	4.66	98.6	8.17	74	1.07	1.00	1	0	40	100	O		

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

COASTAL AND ENVIRONMENTAL Most recent tide time (falling or rising)	Low: 12:51 pm High: 6:44 am (falling)
Moon day (from new)	5
Cloud cover (0-8)	0
Rain conditions (last 24 hrs)	PONE,
Wind direction (Trades/Kona)	+GGO TRAOB
Streams flowing? (Y/N)	N

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).
Use the back of the form if needed.
AT WATERLAND PARK (KWP) SOME OF THE PURTLESS SAMPLE SASELED MASSES TRANSFER FROM THE SYNTHEE

TURBIDITY VE	RIFICATION			
	Blank	Low	Med	High
Standard	0.04	5.85	54.5	574
Pre-sampling	0.04	5.75	54.5	573
Post-sampling	0.08	5.86	54.4	574

CHAIN OF CU	STODY INFORMAT	TON	
	# of samples	Relinquished to	Contact
Sediment	0		
Nutrients	6	NAS	George Brown
Bacteria	O		

Signature (Team Lead):	Printed Name:
In & Motor	GEORGE G. BURNETE B
Dy 8 11/10 4	Geville O. J

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Kamaole	Samplers (Last Name,	GRANGS, S	Howard, D	
Session	8	1st Initial)	PRIELIK, S QUEND, A	BUNGETTE, G	
Date	02/20/18		QUEL, A		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Vutrients							
KWP180220-N-1	Waipuilani Park	4	0	7:54	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS180220-N-1	Kihei South	12		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP180220-N-1	Kalama Park	R	0	8:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP180220-N-1	Cove Park	8	0	9:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKO180220-N-1	Kamaole I	<b>1</b>		9:14	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKT180220-N-1	Kamaole III	0	0	9:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
Seaments					500 ml		
					500 ml		
					500 ml		
					500 ml		
		0	0		500 ml		
		0	0		500 ml		

Printed Name:
CERGE G. BURNETTE TO

Hui O Ka Wai Ola - Sample Collection Datasheet Wref A, Dunning T, Friess, Burnetto 6 Meters and Probes ID Makena Team Samplers (Last Name, HQ40d: 2 2100Q:2 Session 8 1st Initial) DO: 2 Salinity: 2 pH: 2 Date 02/21/18

		Tomas	C-H-H-	Dissolved	Oxygen			Turbidity		Waves	Wind	People	e (within	100 ft)		Nutrient
Location Name Sample ID	Time	(°C)	Salinity (ppt)	(mg/L)	(%)	pH		(NTU)		(0-3)	(0-6)	water	beach	camp	TSS	duplicate
Makena Landing MML180221	8:00g	24.2	35.4	6.75	98.2	8.16	2.55	3.15	2.91	1	0	0	6	0	0	
S Maluaka Beach MMB180221	8:30	24.2	35.3	6.88	100.3	8.17	1.52	1.61	1.61	1	0	0	0	0		
Oneuli MON180221	8:56	24.5	35.7	6.72	98.4	8.13.	3.24	3.19	3.46	1	0	0	2	0	0	
Makena Beach MBS180221	9:15	247	35.8	6.79	100.1	8,18	0.53	0.46	0.45	1	0	1	1	0		
Ahihi Kinau North MAN180221	10:06	24.9	35.3	7.56	111.8	8.11	0.95	1,13	1.11	1	0	1	8	0		0
			35.6	6.64	98.7	8.12	0.97	1.09	1.29	1	0	11	20	0		0

Waves: Off: no waves; Iff: small waves; 2ff: knee high; 3ff: waist high Wind; 0: calm; 3: gentle breeze; 6: strong breeze

COASTAL AND ENVIRONMENTAL	CONDITIONS
Most recent tide time (falling or rising)	Low: 1:31 pm High: 7:06 am (falling)
Moon day (from new)	6,
Cloud cover (0-8)	6
Rain conditions (last 24 hrs)	
Wind direction (Trades/Kona)	Kona
Streams flowing? (Y/N)	MA

DISE the back of the form if needed.  BLANK TURBOUNT STANDARD O. OF AND PRE-SAM ROUGE  O. 14 WAS USENG LAB-MADE OFFICE WATER. POST  O. 14 WAS USENG LAB-MADE OFFICE WATER. POST	BLANK TURBODUM STANDARD O. OS AND PAE-SAM ROUG	NOTES AND COMME		ment problems, erro	rs, concerns).
0.14 WAS USENG LAB-MADE DESTELLED WATER. POST	SAMPLANG NEADERS OF Q.03 USED STORE BUIENT	A. A. W. A. AAROUN	Y GALAMAA	208 AND PAR-	SAMRONO
CO. A C. I ALLER C. OF A BB USEN STORE BUIGHT	SAMPLANG NEADERG OF Q.03 USED STONE BOYERS	Deark William	MACHANE !	MITALED WATE	in POST
	SAMPLING MERCHES OF G. 45 CHO THE TO THE TOTAL - CONST	0.14 WHI 035FO	1062031	SEN GOAF BU	WHI

TURBIDITY VE	RIFICATION	V		
	Blank	Low	Med	High
Standard	0.08	5.85	34.5	574
Pre-sampling	0.14	5.82	54.1	573
Post-sampling	0.03	5,79	54.1	573

CHAIN OF CU	STODY INFORMAT	TON	
	# of samples	Relinquished to	Contact
Sediment	0		
Nutrients	6	NMS	CEIRLE BUNGET
Bacteria	0		

Signature (Team Lead):	Printed Name:
Sy I ntt 6	GEORGE 6. BURNESE &

Hui O Ka Wai Ola - Sample Collection Datasheet

Team	Makena	Samplers	WOLF, A. OWNERG, J.	FASES, S.	
Session	8	(Last Name, 1st Initial)	BURNETE, G.		
Date	02/21/18				

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
MML180221-N-1	Makena Landing	M	0	8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB180221-N-1	South Maluaka Beach	M	0	8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON180221-N-1	Oneuli	ď		8:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MBS180221-N-1	Makena Beach Shoreline	•	0	9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN180221-N-1	Ahihi-Kinau North		0	10:06	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS180221-N-1	Ahihi-Kinau South	M		10:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
			0		500 ml		
		0			500 ml		
					500 ml		
			0		500 ml		
					500 ml		
W. 133 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					500 ml		

Signature (Team Lead)	CENCE 6. BUNNETTE 13	•
Signature (Team Lead):	661686. HURNETTE 13	

Hui O Kaperi Ola - Sample Collection Datasheet

Hui O I		1 - 1	Meters and	Probes II
Team	North Kihei	Samplers Thurshelm, 12 Cha	32,5 HQ40d: 2	
Session	8	1st Initial) Green, N.; Riley, K	pH: 2	DC
Date	02/22/18	3.		annia (wi

Meters	and Probes ID			
HQ40d:	2	2100Q	: 2	
pH: 2	DO:	2	Salinity: 2	
Wind	People (with	in 100 ft)		Nutrient

ate 02/22/18				Dissolved	Ovvgen	100					11/7-3	People	(within	100 ft)		Nutrien
Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pH		(NTU)		Waves (0-3)	Wind (0-6)	water	beach	camp	TSS	duplicat
Haycraft Park NHP180222	8:30	24.4	34.7	6.70	97.5	8,14	6.05	6.02	6.09	.5	0	0	9	0	0	0
Kealia Pond NKP180222	9:00	24.4	35.7	6.84	100	8.18	3,55	3,63	4.06	1	1	0	7	0		
Sugar Beach NSB180222	9:25	24,6		6.33	99.3	8.17	6.34	6.34	COLUMN TO SERVICE	.5	1	0	8	0	0	0
Kihei Canoe Club NKC180222	9:48	24.8	34.9	6.72	98.5	8.14	3,00	3.16	3.95	,5	0	0	7	0	0	0
Mai Poina Oe Iau NMP180222	10:00	24.7	34.3	4.05	97.1	8.14	4.62	4.34	5,12	U	D	to	6	D	0	
Kalepolepo North NKN180222	10,21	24.7	33.1	6.55	95,0	2 8.14	14,6	15.9	13.4	15	Waves: Off	O no waves;	A lft: small w	O aves; 2ft: kr	ce high; 3	ft: waist h

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

COASTAL AND ENVIRONMENTAL	CONDITIONS
Most recent tide time (falling or rising)	Low: 2:25 pm High: 7:26 am (F)
Moon day (from new)	8
Cloud cover (0-8)	0
Rain conditions (last 24 hrs)	0
Wind direction (Trades/Kona)	N
Streams flowing? (Y/N)	

- DATE OF THE CountY	aguisment problems, errors, concerns).
NOTES AND COMMENTS (trends,	equipment problems, errors, concerns).
Use the back of the form if needed.	

	RIFICATION	Lan	Med	High
	Blank	Low	IVICU	Ingu
Standard	side Re	5.85	54.5	574
Pre-sampling	,26.	5.83	54.2	573
Post-sampling	D. 21	4.82	54.2	573

CHAIN OF CUSTODY INFORMATION								
	# of samples	Relinquished to	Contact					
Sediment								
Nutrients	6	hw	h->-					
Bacteria								

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spin	de	6	Sta
	ifin	ifin au	ifin a la

Hui O Ka P Ola - Sample Collection Datasheet

Team	North Kihei	Samplers	Thunkolm, K	Why. F.	
Session	8	(Last Name, 1st Initial)	Chem, B	V. 1.	
Date	02/22/18		Grun, N		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NHP180222-N-1	Haycraft Park		0	9:3.	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP180222-N-1	Kealia Pond			9:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB180222-N-1	Sugar Beach	8		9:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC180222-N-1	Kihei Canoe Club	4	0	9:48	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP180222-N-1	Mai Poina Oe lau	ď		10.00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKN180222-N-1	Kalepolepo North	4	0	10:21	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
			0		500 ml		
		0			500 ml		
		0			500 ml		
		0	0		500 ml		
					500 ml		
					500 ml		

Signature (Team Lead	):
Mula los	1
1000 ac a	'

Printed Name: Office de la feta

Team Wailea Samplers HECHT, H. BUNDETE, 6 OELASOTA, S			Meters and F	Probes ID	
Session 8	(Last Name,	HECH!, I. OIL	HQ40d: 2	2	100Q: 2
Date 02/23/18	1st Initial)	nader, D, Jarvie J.	pH: 2	DO: 2	Salinity: 2

				Dissolved	Oxygen						VVD1	People	(within	100 ft)		Nutrient
Location Name Sample ID	Time	Temp (°C)	Salinity (ppt)	(mg/L)	(%)	pН		(NTU)		(0-3)	Wind (0-6)	water	beach	camp	TSS	duplicate
Kilohana Dr WKD180223	8,05	24.3	35.7	6.87	100,5	8.18	0.68	6,73	0,73	1	0	2	20	0	0	0
Keawakapu Beach WKB180223	8:42	Company of the Compan	35.6	6.87		-		0.96	2.5	1	0	9	25	0	0	0
Ulua Beach WUL180223	9:15	24.9	35.3	6.92	102.1	8.16	1.45	1.45	1.58	1	1	30	35	0	0	
	9:47	24.9	35.7	6.90	101.9	8.17	1,52	1.63	1.64	2	1	14	60	0		0
Palauea WPL180223	10:00	24.7	35.7	691	101.5	8.17	1.85	2,22	2.29	3	1	3	11	0	0	
Poolenalena WPO180223	10:40	24.9	35.6	6.90	1017	8,20	0.60	0.63	0.60	3	1	08	8	001		0

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

COASTAL AND ENVIRONMENTAL	CONDITIONS					
Most recent tide time (falling or rising)	Low: 5:59am (F) 3:46 Pm High: 1:14pm 7:24an (F)					
Moon day (from new)	2+ 9					
Cloud cover (0-8)	7					
Rain conditions (last 24 hrs)	Yes					
Wind direction (Trades/Kona)	N III					
Streams flowing? (Y/N)	N-WWA					

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

TURBIDITY VE	RIFICATION			
	Blank	Low	Med	High
Standard	0.03	5.85	54.5	574
Pre-sampling	0.03	5.83	54.2	573
Post-sampling	0.06	5.83	54.2	572

CHAIN OF CUSTODY INFORMATION				
	# of samples	Relinquished to	Contact	
Sediment	0			
Nutrients	6	NMS	GEORGE BURYE	
Bacteria	0			

Signature (Team Lead):	Printed Name:
le Inas	GENEL G. BURNETTE TE
11/10/0	

Team Wailea Samplers
(Last Name, 1st Initial)

Session 8

Date 02/23/18

Samplers (Last Name, 1st Initial)

PADEN, D. TANCE, T

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
WKD180223-N-1	Kilohana Dr	62		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB180223-N-1	Keawakapu Beach	to/		8:42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL180223-N-1	Ulua Beach	12		9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WWA180223-N-1	Wailea Beach	8		9:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL180223-N-1	Palauea	8		10:19	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO180223-N-1	Poolenalena	0		10:40	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
Sediments							
					500 ml		
					500 ml		
					500 ml		
					500 ml		
					500 ml		
					500 ml		

Signature (Jeam Lead):	Printed Name:
Signature (Team Lead):	GEORGE G. ANNWERTE TE
1011	0.0.