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



QA/QC Check	Inst #	Probe #	Last Cal Date			RE: tion Value		OST: tion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	n/a	Std Val	NIST 24.7℃	<u>NIST</u> 24.4 ℃	NIST Hege	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	l	1	n/a		24.8		29.5			1	
	1	JJ 22	n/a			24.4		-			
Salinity			3 months	Std Val	Tap water	Salin Std 6/10/Mdate 33.1 ppt	Tap water	Salin Std 3/19 date	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	2/-
	١	1	6/10/19		0.15	33.3	0.16	34.8		pretemp 222°C	44
	1	2	6/10/19		0.15	33.7	-	_		Prettent 340	9/6
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		,
	1	1	10/1/19		98.	1	98	2.9			
	1	2	10/1/18		100.	9	_				
рН			3 weeks	Std Val	pH 7.00	рН 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	9/2/19		7.02	10.03	7.03	10.03			
	1	24	9/2/19		7.04	10.00	_	_			
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10	<u>BLANK</u> <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value	
/	/	n/a	9/2/19		0.04	6.57	0.03				
2	7/	n/a	9/2/19		0.06	6:40	-	_		,	

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team	Kamaole	Samplers	2 with Growes
Session	37	(Last Name, 1st Initial)	Marganie Cyl
Date	9/3/19		Rich Cyl

Meters and	Probes ID		/
HQ40d: 1		2100Q: 1	
nH·22	DO: 1	Salir	nitý: 1

	Streams	Trime		Salinity	Dissolved	Oxygen	»III		T		Peopl	e (within 1	00 ft)
Location Name Sample ID	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)		water	beach	camp
Kalepolepo North NKN190903	H	8:67	28.3	26.1	5.63	83.6	8.12	1.29	1.47	1.36	Ø	i	Ø
Waipuilani Park KWP190903	N	8:28	26.3	32.4	5.65	84,3	8.05	12.6	13.8	13.5	· Ø	Ø	Ø
Kihei South KKS190903	N	8:50	27.8	33.0	6.05	92.6	8.11	4.65	4.94	4.85	1	5	Ø
Kalama Park KKP190903	N	9:10	28.0	33.6	5.71	88.0	8.11	10.3	11.1	10.9	21	2	Ø
Cove Park KCP190903	N	9:30	28.8	33.4	6.16	95.9	8.13	2.51	3.22	3.50	d	Ø	Ø
Mai Poina Oe Iau NMP190903	N	10:04	29.2	34.0	6.10	96.2	8.11	3.90	3.62	4.33	Ø	3	6

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

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0:04	6.59	59.1	593
Pre-sampling	0.06	6.65	59.3	600
Post-sampling	0.04	6060	59.4	599

CHAIN OF CUSTODY INFORMATION MB								
	# of samples	Relinquished to	Contact					
Sediment	-,	-						
Nutrients	10	NMS	111 Brown					
Bacteria	-	-	-					

Signature (Yeam/Lead):	Printed Name: / /
Mittel 1	1 Miles
·//wycyco	- many

Team	Kamaole	Samplers	5. 9,00fs	
Session	37	(Last Name, 1st Initial)	H. Hecht	
Date	1 streams/outflows: 9/3/19		rth, Kalama Park, Cove Park	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
lutrients							
NKN190903-N-1	Kalepolepo North			802	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	*
KWP190903-N-1	Waipuilani Park			8:28	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS190903-N-1	Kihei South	0		8-50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP190903-N-1 Kalama Park				2:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP190903-N-1	Cove Park	6		9:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMP190903-N-1 Mai Poina Oe Iau				10:04	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments	Sediments										
	0		500 ml								
			500 ml								
			500 ml								
			500 ml								
			500 ml								

Signature (Team Lead):	Printed Name:	. / /
Milital	1/	Idel Brown
foll of	e Co	the fitted antaile to the

Team	Makena	Samplers	SousA, B	Meters and F	Probes ID	
Session	37	(Last Name, 1st Initial)	STRICKION, J	HQ40d: 1	21	00Q: 1
Date	9/4/19		SHOPE, M	рН: 3	DO: 1	Salinity: 1

Streams		Time		Salinity	Dissolved	issolved Oxygen pH		Turbidity		People (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	(NTU)		water	beach	camp	
Makena Landing MML190904	N	7:50	28,4	265	6.49	96.8	8.14	1.57	1.65	1.58	_	7	_
S Maluaka Beach MMB190904	N	8:30	28.8	35.3	6.22	98.2	8.16	0.51	0.47	0.48	_	9	~
Oneuli MON190904	N	8:39	28.7	35.3	5.59	97.8	8.06	1.47	1.71	1.60	25/-	1	-
Ahihi Kinau North MAN190904	N	8:59	28.5	35.0	6.59	103.0	8.18	0.68	0.97	6.71	6	/	/
Ahihi Kinau South MAS190904	N	9:16	28.7	32.5	6.55	103.0	8.19	0.69	0.88	1.09	8	5	~

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

TURBIDITY VER	RIFICATION		-	lace	
	Blank (must be <0.10)	On Sw	Med	High	
Standard	0.04	6	Et !	5573	
Pre-sampling	0.06	6.62	59.3	599	
Post-sampling	0.05	6.63	59.4	600	

	# of samples	Relinquished to	Contact	
Sediment	-	-		
Nutrients	5	NWS	al Bron	
Bacteria	-	-	-	

Signature (Team Lead)	Printed Name:	
24 L 11	11.1	P
Miller III	MUTTER	Drown

Team	Makena	Samplers	B. Sousa,
Session	37	(Last Name, 1st Initial)	J. Stricklaml
Date	9/4/19		m. Sharpe

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients		,					
MML190904-N-1	Makena Landing	9		7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB190904-N-1	90904-N-1 South Maluaka Beach			8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON190904-N-1	MON190904-N-1 Oneuli			8:39	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN190904-N-1 Ahihi-Kinau North				8:59	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS190904-N-1	00904-N-1 Ahihi-Kinau South 🗵 🗆 9:16 125 ml		125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters			

Sediments			
		500 m1	
		500 ml	
		500 ml	
		500 ml	
	0	500 ml	

Signature (Team Lead):	Printed Name: / /
Muhator	Mitch Brown

Team	North Kihei	Samplers
Session	37	(Last Name 1st Initial)
Date	9/5/19	

", Riley, R Strickland, J. Bahn &

Meters and	Probes ID		
HQ40d: 2		21000	: \$
рН:3	DO: 1		Salinity: 2

				Salinity	Dissolved	Oxygen					Peop	le (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		Turbidity (NTU)		water	beach	camp	
Maalaea Harbor NMH190905	N	7:42	27.5	25.6	6.32	92.5	8.12	2.69	2.45	2.47	0	0	0
Maalaea Condos NMC190905	N	8:09	27.6	24.3	6.55	100.5	8,08	4,29	2.49	2,47	0	0	0
Haycraft Park NHP190905	N	8:25	27.9	35.0	6.50	100.7		3,24	3,72	3,73	4	2	0
Kealia Pond NKP190905	N	1:55	28.1	35,3	6.46	100.6		2.38			2	1	0
Sugar Beach NSB190905	N	9:15	28.7	35, 1	6.39	100.3	8.14	2,58	2.64	2.72	7	4	0
Kihei Canoe Club NKC190905	N	9:30	29.0	35.1	6.36	100.4	8,17	1.66	1.79	1,57	0	5	8

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

NMH - Ocean Har splanhung over sea wall NKC - 2 Varis of - homeless parking

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.05	6.57	59.2	600
Pre-sampling	,06	6.62	59.3	599
Post-sampling	0.06	6.61	59.4	599

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

fiaraStal Tiara Stark

	Tui	O Ka	Ola	- Samp	le Col	lection	Datasheet
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I formathry issue - should have bee	n an	1
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					1790	
Team	North Kihei	Samplers	Riley.R.	Signature (Team Lead):	Printed Name:	
Session	37	(Last Name, 1st Initial)	Bahr, F.			
Date	1 streams/outflows:		DOVIVII.			
	915/19					

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
NMH190905-N-1	Maalaea Harbor	0		7.42	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC190905-N-1	Maalaea Condos	0		8:09	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP190905-N-1	Haycraft Park	V		8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP190905-N-1	Kealia Pond	D		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB190905-N-1	Sugar Beach	12		9:15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC190905-N-1	Kihei Canoe Club	N.		9:30	125 ml	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:	Variation)
ficiolhe	Trang Stark	

Team	Wailea	Samplers
Session	37	(Last Name, 1st Initial)
Date	9/6/19	

Allison, A Strickland, J Wolf, A

Meters and	Probes ID		
HQ40d: 1		21000): 1
рН: 3	DO: 1		Salinity: 1

	Ctusama	Tr:		Salinity	Dissolved Oxygen		Dissolved Oxygen		Dissolved Oxygen		Toubidito		Peopl	e (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		Turbidity (NTU)		water	beach	camp		
Kilohana Dr WKD190906	N	7:59	28,3	26.5	7.85	100.7	8.14	2.6	2.40	2.34)	5	0		
Keawakapu Beach WKB190906	N	8.55	28.7	35.2	6.44	101.2	8.15	1.77	1.86	2.08	2	9	0		
Ulua Beach WUL190906	N	8:43	28.7	35.7	6.44	101.1	8,18	191	2.28	2.46	10	14	0		
Palauea WPL190906	N	9:07	28.7	35.1	6.55	1025	8.18	2.67	281	2.78	l l	5	0		
Poolenalena WPO190906	N	9:87	28.9	35.1	6.45	101.5	8.19	1.07	1.27	1.21	4	5	Ò		

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

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.06	6.57	59.2	600
Pre-sampling	0.05	6.54	59.2	599
Post-sampling	0.03	6.62	59.3	599

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	-	-	-				
Nutrients	5	NMS	7. Stark				
Bacteria	-	-	-				

Signature (Team Lead):

Printed Name:

Team	Wailea	Samplers	Allison, A.	
Session	37	(Last Name, 1st Initial)	Strickland, J.	
Date	9/6/19		WOLF, A.	

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
WKD190906-N-1	Kilohana Dr			7:59	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB190906-N-1	Keawakapu Beach			8:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL190906-N-1	Ulua Beach			8:43	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL190906-N-1	Palauea			9:07	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO190906-N-1	Poolenalena	N		9:27	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments								
	0	0	500 ml					
			500 ml					
			500 ml					
	0	0	500 ml					
	0		500 ml					

Signature (Team Lead):

Printed Name:

Tiara Stark