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



Session No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post/Date: Post Time: 39 54 M Brown 1 Starle 01/4/19 8:45 and M Brown 1-5 and 18/19/19 10:45

QA/QC Check	Inst#	Probe #	Last Cal Date			RE: ion Value		ST: tion Value	Acceptable Range	Comments/ Notes Q
Temperature	NIST	n/a کے۔کی۔	n/a	Std Val	NIST 24.9°C	NIST 24.7°C	NIST 29.3°C	NIST °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water
	1.	31	n/a		24.7		29.2			10/14: pre: 22.9°C post: 22.8°C 10/19: pre: 24.8°C post: 22.0°C
	1	2	n/a			24.5		_		10/19: pre. 24.8 °C post: 22.0 °C
Salinity			3 months	Std Val	Tap water 0.13	Salin Std 9/27 date 33.2 ppt	Tap water 0.13	Salin Std 9/27 date 33.2 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle
	/	1	9/23/19		0.15	33.3	0.14	33.1		
	1	2	9/23/19		0.15	33.4	_	_		
Dissolved Oxygen			1 year 10/14/19	Std Val	10	0% WB	10	0%	± 5 %	tolius
	1	1	10/0/18		99	3996	9	3.5		Found Do replucement after &
	1	2	10/04/8		102	.4	_			10/14: Found Do replucement after & Ridit. 10/18 Cal/braked #Z
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	10/14/19		7.06	9.92	7.02	-10,00		
	1	4	10/14/19		7.00	10.01		_		
Turbidity			3 months	Std Val	BLANK <0.1	LOW 1-10 NTU	BLANK <0.1	LOW 1-10 NTU	± 0.18 NTU Low 1-10	Compare to Gel LOW 1-10 Std Calibration value
	1	n/a	9/2/19		0.03	6.63	0.03	6.68		6.57 59.2 600
	7	n/a	9/2/19		0.03	6.43		_		6.42

QA:

* Are pre- and post within one week?

* Delay times are ok?

* Other equipment issues?

Team	Kamaole	Samplers	RICKY CYR BURNETS, 6	Meters and	Meters and Probes ID				
Session	39	(Last Name, 1st Initial)	CYR IK.	HQ40d: 1		2100Q: 1			
Date	10/15/19		CHRA Howard	pH: 3	DO: 1	Salinity: 1			

	Streams	Time		Salinity	Dissolve	d Oxygen	pН		Turbidity		Peop	le (within 1	00 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
Kalepolepo North NKN191015	N	67:50	27.3	33.4	6.20	94.1	8,12	6.28	6.41	6.50	Ø	1	0
Waipuilani Park KWP191015	7	8=15	26.6	32.8	6.14	92.0	8-12	21.6	22.8	22.1	Ø	Ø	O
Kihei South KKS191015	N	8:32	27-3	33.8	6.09	93.0	8.13	9.33		11.2	Ø	4	Ø
Kalama Park KKP191015	2	8>53	27.7	34.6	6.33	97.6	8.12	12.5	12.9	13.4	18	6	ø
Cove Park KCP191015	N	9:08	28.0	32.6	6.01	920	8.10	4.71	7.93	9.07	4	0	0
Mai Poina Oe Iau NMP191015	N	9:33	23.2	33.4	6.24	96.3	8.12	4.15	8.34	5.98	Ø	2	

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

OKCP connected salinity of 0,0.
NO READING ON D. D.
RECONNected Buth Probes a

NMP 4th Turbidity 9.46

HEAVY TRANES

Sites with streams/outflows: Kalepolepo North, Kalama Park, Cove Park

TURBIDITY VER	LIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.03	6.57	59.2	600
Pre-sampling	0.05	6.64	54.0	600
Post-sampling	0.04	6-62	59.5	599

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	x	-	-
Nutrients	6	MIMES	MB non
Bacteria	70	1/1/2	MBONE

Mitallet Ken Mich Brown

Team	Kamaole	Samplers	RCyr	6. Burnette	
Session	39	(Last Name, 1st Initial)	M. Car	0 104 1040	
Date	10/15/19		D. Howard		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN191015-N-1 Kalepolepo North				7:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP191015-N-1	Waipuilani Park Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters				
KKS191015-N-1	Kihei South	1		8:32	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP191015-N-1	Kalama Park	B		8.53	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KCP191015-N-1	Cove Park Cove Park Georgia Grand						
NMP191015-N-1	NMP191015-N-1 Mai Poina Oe Iau		9:33	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters		

Sediments			
		500 ml	

Signature (Team Lead	Printed Name:	
111.11	M. M. R.	-
Mell	Man Miles Dia	N
00		

Team	Makena	Samplers	D. Fries, B. Sousa, M. Shape	Meters and	Probes ID	
Session	39	(Last Name, 1st Initial)	J. Dunning	HQ40d: 1		2100Q: 1
Date	10/16/19		/	pH: 3	DO: 1	Salinity: 1

	Streams	Time		Salinity	Dissolved	Oxygen	pН		Turbidity		Peop	le (within 1	00 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 MML191016	_	7:51	27.7	26.3	6.55	96.3	8.14	1.61	1.51	1.53	/	7	0
S Maluaka Beach MMB191016	_	8:20	27.5	35.2	6.27	96.5	8.15	0.67	0.88	0.69	3	5	0
Oneuli MON191016	_	8:43	27.6	35. Z	6.04	92.9	8.09	2.38	2.07	2.49	0	0	0
Ahihi Kinau North MAN191016	1	9:04	27.7	35.1	6.32	97.3	8.06	0.73	0.86	0.55	21	4	0
Ahihi Kinau South MAS191016		9:23	28.5	34.8	6.27	97.9	8.12	0.39	0.41	0.38	6	17	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

- 1st enterrococcus sample bray may have a seal concern (mmh)seemed to be leaking initially small amount of water expelled through smallest opening in seal possible, then resealed

- amml, Salinity lower? green probe attached to blue, and blue probe to green here, + at all sights so done the same each time and PH attached singular

TURBIDITY VER	IFICATION			
	Blank (must be 100)	Low	Med	High
Standard O.	4	4.57	59.2	600
Pre-sampling	0.04	6.56	592	600
Post-sampling	0.04	6.64	59.4	600

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment		-	-
Nutrients	5	NUS	MBrown
Bacteria	5	NWS	M Brown

gnature (Team Lead):	Printed Name:
14/1/	1M 1 // D
Mell M	in Milele Drown

Team	Makena	Samplers	B. Sousa
Session	39	(Last Name, 1st Initial)	J. Danning
Date	10/16/19		S. MES

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients		/					
MML191016-N-1	Makena Landing	4			125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB191016-N-1	South Maluaka Beach				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MON191016-N-1	Oneuli				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN191016-N-1	Ahihi-Kinau North				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS191016-N-1	Ahihi-Kinau South				125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:
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Mount	in MUTER Drown
11/	

Team	North Kihei	Samplers
Session	39	(Last Name, 1st Initial)
Date	10/17/19	

Thunholm, K. Baht, F. Riley, R

Meters and	Probes ID		
HQ40d: 1		2100Q: 1	
pH: 3	DO: 1		Salinity: 1

				Salinity	Dissolved	Oxygen				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		bidity TU)	water	beach	camp
Maalaea Harbor NMH191017	N	7:15	26.6	34.6	5.85	88.3	8.11	1.08 1.	04 1.13	0	3	0
Maalaea Condos NMC191017	N	7:45	26.9	34.4	6.32	95.7	8.05	3.34 3.	35 3.66	0	2	0
Haycraft Park NHP191017	N	8:00	27.2	34.6	6.09	92.9	8.12	20621	74 1,64	3	2	0
Kealia Pond NKP191017	N	8;30	27.5	35.1	6.49	99.8	8.16	.74	.60 ,64	0)	0
Sugar Beach NSB191017	N	8:50	27.9	25.0	6.42	99.2	8,17	1.75 2	30 1,93	8	2	0
Kihei Canoe Club NKC191017	N	9:10	29.3	34.3	6.27	98.6	8.17	1.17 1	70 1.47	0	12	0

NOTES AND COMMENTS (trends, equipment problems, errors, concerns).

Use the back of the form if needed.

The MC-13 been tocker - or Aliesen !!

Could be take Jampeles from the cliff shore with the bucket?

We need more than one distilled HID

The base of The Pusher needs glue

NKC - has two car lampers

Sites with streams/outflows: Kealia Pond

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.57	59.2	600
Pre-sampling	.06	6.60	58.9	599
Post-sampling	0.04	6.61	59.3	599

CHAIN OF CUS	STODY INFORMATION	UN	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	6	WMS	T.Stach
Bacteria	×-	-	-

Signature (Team Lead):	Printed Name:
Liacoth	Trava Starle

Team	North Kihei	Samplers	Thunholm, K.	2) 0	
Session	39	(Last Name, 1st Initial)		Riley, F.	
Date	10/17/19		Bahr, F.		

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH191017-N-1	Maalaea Harbor	D/	0	7-15	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC191017-N-1	Maalaea Condos	42/		7:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP1901017-N-1	Haycraft Park	tv .		8:00	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP191017-N-1	Kealia Pond	\sqrt{Q}		8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NSB191017-N-1	Sugar Beach	D		8:50	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC191017-N-1	Kihei Canoe Club	50		9:10	125 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:	
dialle	Tara Stark	

Team	Wailea	Samplers	AWOR Seraph DAlerta	Meters and P	Probes ID	
Session	39	(Last Name, 1st Initial)		HQ40d: 1		2100Q: 1
Date	10/18/19		Ben Cone, Judy Jawie	pH: 3	DO: 1	Salinity: 1

	Streams	T:	TO BE SHOWN	Salinity	Dissolved	Oxygen	рН	Turbidity	Peop	le (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	8-8.3 normal	(NTU)	water	beach	camp
Kilohana Dr WKD191018	170	7:59	27.4	35	6,71	97.8	8.15	1.070.990.96	0	8	Q
Keawakapu Beach WKB191018	no	8:18	27.6	35.1	6.39	98.2	8.13	0.75 0.86 0.79	7	8	0
Ulua Beach WUL191018	NO	8:36	27.7	35.0	6.43	99.1	8.15	1.17 1.21 6.01	8	20	0
Palauea WPL191018	no	8.90	28,0	35.1	6.25	96.5	8.15	1.02 1.12 1.11	7	15	0
Poolenalena WPO191018	No	9109	28,4	35.1	6,42	100.1	8.19	0.64 0.61 0.59	9	13	0

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

TURBIDITY VER	RIFICATION			
	Blank (must be <0.10)	Low	Med	High
Standard	0.04	6.57	59.2	600
Pre-sampling	0,06	6.63	59.1	600
Post-sampling	0.03	6.60	59.1	599

CHAIN OF CUS	STODY INFORMATION	ON	
	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	NMS	T. Stark
Bacteria	-	-	

Signature (Team Lead): Printed Name:

Hard Stark

Team	Wailea	Samplers	A. WOSF	B. Cone
Session	39	(Last Name, 1st Initial)	S. D'Alerta	7 -
Date	10/18/19		J. Direija	J- Jarvie

Sample ID	Location Name	Sample taken?	Storm sample?	Time	Volume	Protocol Notes	Comments
utrients							
WKD191018-N-1	Kilohana Dr	Q		7:59	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WKB191018-N-1	Keawakapu Beach	□∕		8:18	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WUL191018-N-1	Ulua Beach			8:36	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPL191018-N-1	Palauea	0		8:56	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
WPO191018-N-1	Poolenalena			9:09	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
ediments							
					500 ml		
					300 HH		
					500 ml		
					500 ml		

500 ml

500 ml

Signature (Team Lead):	Printed Name:	
draalth	Trara Starle	
()		