

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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
03	M. Brown	5/10/21	10:30 am	T. Stark	5/13/21	10:30 am

QA/QC Check	Inst #	Probe #	Last Cal Date		PRE: Verification Value		POST: Verification Value		Acceptable Range	Comments/ Notes	QA?
Temperature	NIST Exp 10/2022	n/a	n/a	Std Val	NIST 25.2°C	NIST 25.0°C	NIST 25.7°C	NIST — °C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	1	1	n/a		25.4		25.8				
	1	2	n/a			25.2		—			
Salinity			3 months	Std Val	Tap water 0.32	Salin Std 5/10/21 date 35.0 ppt	Tap water 0.32	Salin Std 5/10/21 date 35.0 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	1	2/15/21		0.33	35.1	0.34	35.2		Accidentally put a line through the box. Sorry!	
	1	2	2/15/21		0.33	35.1	—	—			
Dissolved Oxygen			1 year	Std Val	100%		100%		± 5 %		
	1	1	11/2/20		100.0		99.7				
	1	2	11/2/20		100.3		—				
pH			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	4/14/21		7.00	9.99	7.02	10.01			
	1	4	4/14/21		7.01	10.00	—	—			
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	3/8/21		0.07	6.65	0.09	6.67		10 std - 6.66	
	2	n/a	3/8/21		0.06	6.53	—	—		" 6.48	

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

Lab: DHS

Team	Kamaole	Samplers (Last Name, 1st Initial)	Rich, Scott, Haig, Manzie 97.6 97.0 97.2 97.9	Meters and Probes ID		
Session	63			HQ40d: 1		2100Q: 1
Date	5/11/21			pH: 3	DO: 1	Salinity: 1

Location Name Sample ID	Streams Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)			Enterococcus	People (within 100 ft)		
					(mg/L)	(%) 85-105 normal					CFU	water	beach	camp
Kalepolepo North NKN210511	N	8:01	25.3	33.1	6.07	88.9	8.09	1.79	2.49	2.12	NA	0	10+	0
Waipuilani Park KWP210511	N	8:13	25.1	31.1	6.20	89.6	8.06	8.69	9.31	9.33	NA	0	2	4
Kihei South KKS210511	N	8:30	25.9	32.9	5.97	88.1	8.09	4.24	3.95	4.41	NA	0	4	0
Kalama Park KKP210511	N	8:47	25.9	31.9	6.61	98.8	8.11	6.52	6.16	6.68	NA	1	6	0

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

#1 2 mi
#2 2 mi
#3 Time 8:34

*Sites no longer sampled – Mai Poina Oe Ia'u,
Cove Park

*All 4 sites have possible freshwater flow

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.07	6.66	58.3	592
Pre-sampling	0.10	6.64	58.0	588
Post-sampling	0.07	6.69	58.2	587

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment			
Nutrients	4	AMS	M Brown

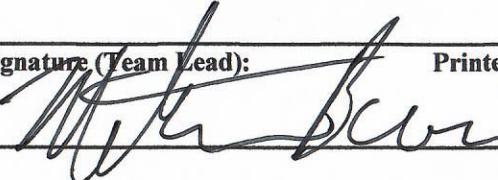
Signature (Team Lead):

Printed Name:

Mitch Brown

Team	Kamaole	Samplers (Last Name, 1st Initial)	Cyr R Cyr M	Hecht H. Graves S.
Session	63			
Date	5/11/21			

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NKN210511-N-1	Kalepolepo North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:01	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP210511-N-1	Waipuilani Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:13	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS210511-N-1	Kihei South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:30	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP210511-N-1	Kalama Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:47	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Signature (Team Lead):	Printed Name:
	Mitch Brown

Team Wailea-Makena	Samplers (Last Name, 1st Initial)	J. Dunning, B. Sousa, M Sharpe		Meters and Probes ID		
Session 63				HQ40d:1	2100Q: 1	
Date 5/12/21				pH: 3	DO: 1	Salinity: 1

Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)			Entero	People (within 100 ft)		
					(mg/L)	(%) 85-105 normal					CFU	water	beach	camp
Cove Park KCP210512	N	8:37	25.9	32.1	6.62	98.0	8.08	3.31	2.55 2.49	2.46	-	0	2	2
S Maluaka Beach MMB210512	N	8:37	25.8	34.2	6.64	98.7	8.09	1.24	1.17	1.16	-	4	14	0
Ahihi Kinau North MAN210512	N	9:34	25.5	35.1	7.51	111.6	8.12	1.36	1.55	1.28	-	2	10	0
Ahihi Kinau South MAS210512	N	9:49	25.2	34.8	6.70	99	8.05	1.53	1.44	1.70	-	3	10	0

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

Cove park - 1 clog in water

Sites with freshwater flow: Cove Park

TURBIDITY VERIFICATION

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Standard	0.07	6.66	58.3	592
Pre-sampling	0.09	6.69	58.2	588
Post-sampling	0.09	6.68	58.2	588

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	4	DHS	T. Stark
Bacteria	-	-	-

Signature (Team Lead):

[Signature]

Printed Name:

Tiara Stark

Team	Wailea-Makena	Samplers (Last Name, 1st Initial)	J. Dunning B. Sousa M. Sharpe
Session	63		
Date	05/12/21		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP210512-N-1	Cove Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:37	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB210512-N-1	S Maluaka Beach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAN210512-N-1	Ahihi Kinau North	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:34	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MAS210512-N-1	Ahihi Kinau South	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:49	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):



Printed Name:

Tiara Stark

Team	North Kihei	Samplers (Last Name, 1st Initial)	BUNNETTE, G Wolf, A Bahr, F	Meters and Probes ID		
Session	63			HQ40d: 1		2100Q: 1
Date	05/13/21			pH: 3	DO: 1	Salinity: 1

Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	Dissolved Oxygen		pH 8-8.3 normal	Turbidity (NTU)			Entero	People (within 100 ft)		
					(mg/L)	(%) 85-105 normal					CFU	water	beach	camp
Maalaea Harbor NMH210513	N	7:45	24.1	34.7	6.37	99.2	8.08	2.83	2.81	3.19		0	0	0
Maalaea Condos NMC210513	N	8:05	24.3	32.6	7.95	113.9	8.10	4.46	4.63	4.41		0	4	0
Haycraft Park NHP210513	—	8:20	24.4	34.5	7.00	101.7	8.10	2.47	2.31	2.29		0	2	0
Kealia Pond NKP210513	N	8:45	24.6	35.5	6.93	101.5	8.15	0.78	0.79	0.94		0	0	0
Kihei Canoe Club NKC210513	N	9:05	25.4	34.7	6.73	99.7	8.11	0.85	0.93	1.21		0	9	0

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

AT NMC - DO AND DO% OUT OF NORMAL RANGE.
TBOIS 2 DO READINGS WITH THE
SAME RESULT.

WE HAD SIMILAR DO READINGS LAST
SAMPLING SESSION.

Sites with potential for freshwater flow: Maalaea Harbor, Maalaea
Condos, Kealia Pond, Kihei Canoe Club

TURBIDITY VERIFICATION

	Blank (must be <0.10)	Low	Med	High
Standard	0.09	6.66	58.3	592
Pre-sampling	0.09	6.61	58.0	588
Post-sampling	0.09	6.67	58.2	588

CHAIN OF CUSTODY INFORMATION

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	DHS	T. Stark
Bacteria	-	-	-

Signature (Team Lead):

diaa

Printed Name:

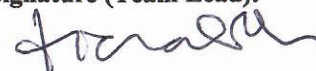
Tara Stark

Team	North Kihei	Samplers (Last Name, 1st Initial)	Burnette, G. Wolf, A. Bahr, F.
Session	63		
Date	05/13/21		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH210513-N-1	Maalaea Harbor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC210513-N-1	Maalaea Condos	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP210513-N-1	Haycraft Park	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP210513-N-1	Kealia Pond	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC210513-N-1	Kihei Canoe Club	<input checked="" type="checkbox"/>	<input type="checkbox"/>	9:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments							
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		
		<input type="checkbox"/>	<input type="checkbox"/>		500 ml		

Signature (Team Lead):



Printed Name:

Tiara Stark