NMS lab



Session No: Verifiers (pre-sampling): Pre Date: Pre Time: Verifiers (post-sampling): Post Date: Post Time: 8 26 21 10:05 am

*************************************					•	/	No. of the second secon				
QA/QC Check	Inst#	Probe	Last Cal Date		PR Verificat	tE: ion Value		ST: ion Value	Acceptable Range	Comments/ Notes	QA
<b>Femperature</b>	NIST	n/a	NIST Exp.	Std Val	NIST 25.3 <sub>°C</sub>	NIST 25.5c	NIST °C	NIST 26.5 <sub>°C</sub>	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	2	3	10110		25.3		_			lab temp 8/23/24.	24
	2	2				25.7		26.7			
Salinity			3 months	Std Val	Tap water 0 · 20	Salin Std S 5 Cate 33 6 ppt	<u>Tap water</u> <b>0.20</b>	Salin Std 8 5 2 date 33.6 ppt	± l ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	7_	200	8/2/21		0.18	33.8	_				
	2	2	5/31/21		0.17	33.7	0.17	33.7			
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	1	1	11/2/20		90	4.6					
(e.	2	2	11/2/20		97	7.1	95	.7			1985 404
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	
	2	3	8/23/21		7.03	9.96	_				
	2	4	8/23/21		7.01	9.98	7.02	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	
	3	n/a	82/21		0.06	6.10	0.04	6.12		Turb. Calibration Std Exp:	
	1	n/a	10/1/21		0.04	6.20					

QA:

\* Are pre- and post within one week?

\* Delay times are ok?

\* Other equipment issues?

#390: 6.11 low # 1 std: 6.21 low

Lab: NMS

Team	Kamaole	Samplers	CYR R CYR M HECHT H	Meters and Probe	Meters and Probes ID				
Session	68	(Last Name, 1st Initial)		HQ40d: 2	2100Q	: 3			
Date	8/24/21			pH: 4	DO: 2	Salinity: 2			

				Salinity	Dissolved	Oxygen					People	e (within 1	00 ft)
Location Name Sample,ID	Freshwater 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 NKN210824	N	7:52	26.2	33.1	6,11	91.1	8.12	4.48	4.44	4.37	d	7	Ø
Waipuilani Park KWP210824	N	8:08	26.0	33.6	6.18	92.0	8.05	19.5	21.9	21.9	6	3	Ø
Kihei South KKS210824	N	8:25	26.8	33.8	5.62	84.9	8.04	13.2	12.9	13.6	ø	5	\$
Kalama Park KKP210824	N	8:42	26.5	34.8	6.26		8,10		7.22	7.27	Ø	5	Ø

			Application of the last of the				,,,,,
<b>NOTES AN</b>	<b>D COMMENTS</b>	(trends,	equipment	problems,	errors,	concerns).	
Use the back	of the form if ne	eded.					

7.56 -758
8:13 - 8:17
8:31 -8:39
8.47 8.49

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.06	6.11	54.1	602
Pre-sampling	0.07	6.17	54.3	602
Post-sampling	0.05	6.12	54.4	601

	# of samples	Relinquished to	Contact
Sediment	-,		-
Nutrients	4	NM5	M Brown
Bacteria	1 /-	_	-

Sites with potential for freshwater flow: All

Signature (Team Lead):	Printed Name:
Mullell Ich	_ Mitch Frown

Team	Kamaole	Samplers	CHR
Session	68	(Last Name, 1st Initial)	CYD_M
Date	08/24/21		recht H

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Vutrients							
NKN210824-N-1	Kalepolepo North		0	7.52	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP210824-N-1	Waipuilani Park	6		8:08	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS210824-N-1	Kihei South	1	0	8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKP210824-N-1	Kalama Park	ø	0	8:42	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	

Signature (Team Lead):	Printed Name:	, , , ,
Mit Will	Vall IM	Ida Roma
Myall	1/1/1 ///	leve Drown

Team	Wailea-Makena	Samplers	N. Sharpe, B. Sousa, A. Wof	Meters and	Probes ID		
Session	68	(Last Name, 1st Initial)	, ,	HQ40d: 2		2100Q:	3
Date	08/25/21			pH: 4	DO: 2		Salinity: 2

	E-mah-mata-			Salinity	Dissolved	d Oxygen					Peopl	e (within 1	00 ft)
Location Name Sample ID	Freshwater 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
Cove Park KCP210825	1	8:35	26.9	34-2	6.03	91.4	8.12	0.84	0.87	0.95	3	Ø	1
S Maluaka Beach MMB210825	7	9:12	27.2	35.5	6.30	96.8	8.15	1.42	1.51	1.47	2	24	Ø
Ahihi Kinau North MAN210825	7	9:28	26.8	35.6	6.67	101.8	8.10	1.11	1.08	1.27	3	5	Ø
Ahihi Kinau South MAS210825	7	9:45	26.8	35.2	6.56	100.0	8.12	1.10	1.38	1.24	9	11	Ø

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

Cove Park: homeless encomponent @snoreline
looks permanent

Maluaka: Beach wedding group

TURBIDITY VER	IFICATION			
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.05	6.11	54.1	602
Pre-sampling	0.04	6.19	54.3	602
Post-sampling	0.04	6.12	54.2	601

CHAIN OF CUSTODY INFORMATION							
	# of samples	Relinquished to	Contact				
Sediment	=	-	-				
Nutrients	4	NMS	T. Stark				
Bacteria	-	_	_				

Sites with potential for freshwater flow: Cove Park

Signature (Team Lead):

**Printed Name:** Tiara Stank

Team	Wailea-Makena	Samplers	N. Sharpe	
Session	68	(Last Name, 1st Initial)	B. Sousa	
Date	08/25/21		A. Wolf	*

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
KCP210825-N-1	Cove Park	<b>D</b> /		8:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
MMB210825-N-1	S Maluaka Beach	B		9:12	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	1-11-11-11
MAN210825-N-1	Ahihi Kinau North			9:28	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	1.53401
MAS210825-N-1	Ahihi Kinau South	D		9:45	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:	
harolle	Tiara Stack	

Team	North Kihei	Samplers	Burnette, G.	Meters and Pro	bes ID	
Session	68	(Last Name, 1st Initial)	<b>b</b> –	HQ40d: 2	210	00Q: 3
Date	08/26/21		Bahr, F.	pH: 4	DO: 2	Salinity: 2

	Ewashwatau	T.		Salinity	Dissolve	d Oxygen					Peopl	e (within 1	00 ft)
Location Name Sample ID	Freshwater 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 NMH210826	7	7:45	25.1	34.9	5.81	86.0	8.10	0.83	0.84	0-83	Ø	Ø	6
Maalaea Condos NMC210826	2	8:05	25.3	34.4	6.88	101.7	8.09	1.98	2.07	2.01	Ø	Ø	Ø
Haycraft Park NHP210826	_	8:25	25.6	34.9	6.40	95.5	8.11	2:38	2.32	2.44	Ø	Ø	Ø
Kealia Pond NKP210826	2	8:45	25.8	35.7	6.46	97.1	8.17	0.61	0-64	0.60	\$	Ø	6
Kihei Canoe Club NKC210826	2	9:10	26.9	35.2	6.42	98.1	8.13	1.86	2.14	1.79	3	ø	Ø

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

KCL- Accidentally dumped out KCL at first beach

NKP- Almost wable to extract nutrient sampling at NKP. Suspected something wrong with green filter. Thread a spare green filter, no help. Took maybe 10 minutes to extract - something wrong.

Atthough there was recent rain - no stream flow.

HQ40d2 meter shuts off frequently when
pressing read button.

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

TURBIDITY VERIFICATION							
	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)			
Standard	0.04	6.11	54.1	602			
Pre-sampling	0.03	6.13	54.3	602			
Post-sampling	0.04	6.12	54.5	601			

	# of samples	Relinquished to	Contact
Sediment	-	-	-
Nutrients	5	nmc	T. Stork
Bacteria	-	_	<u> 200</u> 0

Signature (Team Lead): Printed Name:

Tara Stark

Team	North Kihei	Samplers	Burrette, G.		
Session	68	(Last Name, 1st Initial)	Bahr, F.		
Date	08/26/21		Will IT.		

Sample ID	<b>Location Name</b>	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients							
NMH210826-N-1	Maalaea Harbor			7:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC210826-N-1	Maalaea Condos	الا		8:05	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP210826-N-1	Haycraft Park			8:25	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP210826-N-1	Kealia Pond	Ø		8:45	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	TO SERVICE TO SERVICE TO THE SERVICE
NKC210826-N-1	Kihei Canoe Club	Ď.		9:10	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

Sediments			
		500 ml	

Signature (Team Lead):	Printed Name:	
dicasth	Tiara Stark	