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



Session No:	Verifiers (pre-sampling):	Pre Date:	Pre Time:	Verifiers (post-sampling):	Post Date:	Post Time:
73	T. Stark, G. Burrette	12/13/21	9:15 am	T. STANK G. BUNNETTE	12/16/20	10:30

QA/QC Check	Inst#	Probe	Last Cal Date		PR Verificati			ST: ion Value	Acceptable Range	Comments/ Notes	QA?
Temperature	NIST	n/a	NIST Exp. Date	Std Val	<u>NIST</u> 23.3 _℃	<u>NIST</u> 23.1 ∘ _C	<u>NIST</u> 26.0 °C	NIST ——°C	± 0.6 °C of NIST	Compare to NIST Std value in tap water	
	l		10/16/22		23.5		26.2				
	١		10/16/22			23.3					
Salinity			3 months	Std Val	<u>Tap water</u> 0.13	Salin Std 8/5/40ate 33.6 ppt	Tap water O. 13	Salin Std 15/4 date 33.6 ppt	± 1 ppt	Tap water - compare pre & post values Salinity Std - compare to value on Salinity Std bottle	
	1	3	11/15/21		0.18	33.9	0.18	33.9			
	١	2	11/15/21		0.17	33.2					
Dissolved Oxygen			1 year	Std Val	10	0%	10	0%	± 5 %		
	1	1	11/2/20		96.	2.	98.	9		sensor cap replaced 12/16/21	
(•	1	2	11/2/20		99.	6				sensor car replaced 12/16/24	
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	12 13 21		7.00	10.01				* pH #3 needs to be replaced. Uning #4 til order new one	mutes decu
100 to 000 to	1	4	12/13/21		7.00	10.02	7.03	10.02		,	
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	
	į	n/a	10/25/21		0.07	6.69	0.07	6.66		Law STD: 6.74	11
11.1134134146	2	n/a	10/25/21		0.04	6.19		-	4	LOWSTD: 6.14	

QA:

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

Lat: NMS

Note: These samples all were actually taken on 12/14/2021

Team	Kamaole	Samplers	Horan Hacht	Meters and Pro	bes ID	
Session	73	(Last Name, 1st Initial)	Magie 7	HQ40d:	2100	0Q: 1
Date	12/13/2021		Rick	рН: Ц	DO:	Salinity: 3

				Salinity	Dissolved	Oxygen				People	(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 NKN211213	Ν	8:03	24.6	32.2	6.26	89.9	8.11	30.2. 44.6	45.7	2	ı	Ø
Waipuilani Park KWP211213	Ν	8:22	24.4	33.3	5.92	85.4	8:03	40.3 41.5	43.6	Ø	2	Ø
Kihei South KKS211213	M	8:38	24.9	30.1	5.67	81.0	8.00	6.39 6.70	6.66	Ø	0	B
Kalama Park KKP211213	N	8.51	24.9	35,0	5.97	87.9	8.14	4,69 4,79	4.86	Ø	Ø	0

*Extra Turb. 47.7 *
TEXTURE TOPS.
pointed out low pH. Vinycould

8:10 Probin - 8:12 - 8:24 8:27 -	*Extra Turb. 47.	Standard	0.07
8:24 8:27-		Pre-sampling	0.09
8:54		Post-sampling	0.05
	pointed out low pH. Wh	CHAIN OF CUST	ODY INFOR
KKC. volunteur	pointed out low pt. Van	y coma	# of san
that be?		Sediment	_
10001 20		Nutrients	4
		Bacteria	-
		Signature (Team I	Lead):

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.07	6.74	54.8	587
Pre-sampling	0.09	6.67	54.3	587
Post-sampling	0.05	10.69	54.7	587

	# of samples	Relinquished to	Contact
Sediment	1000	-	-
Nutrients	4	NWS	T. Stark
Bacteria	-	-	-

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

Team	Kamaole	Samplers	Harry Hecht	Margie Gy	
Session	73	(Last Name, 1st Initial)	Statt Graves	Rick Cyr	
Date	12/13/2021				The state of the s

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
utrients							
NKN211213-N-1	Kalepolepo North	N/		8:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KWP211213-N-1	Waipuilani Park			8:22	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
KKS211213-N-1	Kihei South			8:38	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
KKP211213-N-1	Kalama Park	V		8:51	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	11/2/2009

Sediments			
		500 ml	

Signatura (Taam Laad):	Printed Name:	
Signature (Team Lead):		
Maralth	Tiana Stark	

Team	Wailea-Makena	Samplers	Sharpe N	Sousa B	Meters and P	robes ID	
Session	73	(Last Name, 1st Initial)	,		HQ40d:	1 21	100Q:
Date	12/15//2021	13t Imilai)			рН: Ч	DO:	Salinity 3

				G - 1''4	Dissolved	Oxygen					People	e (within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	,	Turbidity (NTU)		water	beach	camp
Cove Park KCP211215	7	8:45	15.2	33.6	5.58	81.8	8.1	3.94	3.09	4.19	l	Ø	2
S Maluaka Beach MMB211215	N	9:19	24.9	35.0	6.55	96.3	8.14	1.49	1.85	2.39	9	4	D
Ahihi Kinau North MAN211215	N	9:40	25·l	35.0	7.59	111.9	8.12	1.86	1.00	1.94	6	Ø	Ø
Ahihi Kinau South MAS211215	N	10:63	25.6	35.0	6.50	96.8	8,09	1.00	1,18	1.18	4	9	0

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

	Blank (must be <0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.05	6.74	54.8	587
Pre-sampling	0,10	6.68	54.4	588
Post-sampling	0.05	6.72	55.0	587

LEVEL DIAL TRANSPORTER CONTRACTOR	# of samples	Relinquished to	Contact
Sediment	-	_	-
Nutrients	4	2MN	T.Stark
Bacteria	_	-	-

Printed Name:

Tan Staw Signature (Team Lead):

Sites with potential for freshwater flow: Cove Park

When get standards expired?

Team	Wailea-Makena	Samplers	Sharpe, N.	
Session	73	(Last Name, 1st Initial)	Consa, B.	
Date	12/15/2021		Save	ettassinan i

Nutrients Cove Park Cove Park Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
KCP211215-N-1 Cove Park Image: Cove Park of the Cove Park of t	Nutrients							
MMB211215-N-1 S Maluaka Beach U U: 19 125 ml bottles; 0.2 um disposable filters MAN211215-N-1 Ahihi Kinau North U U 125 ml Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	KCP211215-N-1	Cove Park	Ø		8:45	125 ml		
MAN211215-N-1 Ahihi Kinau North D D D D D D D D D D D D D D D D D D D	MMB211215-N-1	S Maluaka Beach			9:19	125 ml		
W 1 1 in a minimal and a	MAN211215-N-1	Ahihi Kinau North	ď		9:40	125 ml		
MAS211215-N-1 Ahihi Kinau South \square	MAS211215-N-1	Ahihi Kinau South			10:03	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
	Sediments							
Sediments					AND THE PROPERTY OF THE PROPER	500 ml		
Sediments					8	500 ml		

500 ml

500 ml

Signature (Team Lead):	Printed Name:
Irma &c	the Tiara Stark

Meters and Probes ID BUNNETTE, G. North Kihei Samplers Team 2100Q: HQ40d: / (Last Name, 73 Salinity: 3 Session 1st Initial) DO: pH: 4 12/16/2021 Date

					Dissolved	Oxygen			People	e (within 1	00 ft)
Location Name Sample ID	Freshwater Flowing (Y/N)	Time (of collection)	Temp (°C) variable	Salinity (ppt) 30-35 normal	(mg/L)	(%) 85-105 normal	pH 8-8.3 normal	Turbidity (NTU)	water	beach	camp
Maalaea Harbor NMH211216	7	0755	24.6	*35.5	6.12	89.7	8.13	1.32 1.18 1.36	0	0	0
Maalaea Condos NMC211216	N	0820	24.3	33.9	6.98	99.7	8.04	4.88 4.79 4.28	0	6	0
Haycraft Park NHP211216	_	0835	24.7	35.0	6.61	97.0	8.13	4.94 5.09 4.93	3	2	0
Kealia Pond NKP211216	N	0855	24.8	36.0	6.76	99.9	8.21	0.98 0.81 0.90	0	6	0
Kihei Canoe Club NKC211216	N	0920	25.6	34.6	6.55	97.3	8.12	13.6 663	0	0	0

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

Use the back of the form if needed.

NAH - SALEYSTY A BIT HEGH

NKP - SALEYSTY A BIT HEGH

NKC - BROWN WATER From BEACH OUT TO ABOUT

SO FEET From BEACH

HQ40 d # 1 METER SANT OFF PERST 2 TENS WHEN

LEAD WAS PRESSED. WONKED FOR AFTER THAT.

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

TURBIDITY VER	IFICATION			
	Blank (must be < 0.10)	Low (+/- 0.18)	Med (+/- 1.80)	High (+/- 18)
Standard	0.05	6.74	54.8	587
Pre-sampling	0.06	6.76	54.7	588
Post-sampling		6.66	54.9	588

	# of samples	Relinquished to	Contact
Sediment	-	-	_ 1
Nutrients	5	NMS	T.Stark

Signature (Team Lead):	Printed Name:
fiaa8h	Tiana Stark

Team	North Kihei	Samplers	Burnette, G.
Session	73	(Last Name, 1st Initial)	Bahr, F
Date	12/16/2021		

Sample ID	Location Name	Sample taken?	Duplicate sample?	Time	Volume	Protocol Notes	Comments
Nutrients					*		
NMH211216-N-1	Maalaca Harbor	3		7:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NMC211216-N-1	Maalaca Condos	Á		8:20	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NHP211216-N-1	Haycraft Park	No.		\$:35	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKP211216-N-1	Kealia Pond	A		8:55	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	
NKC211216-N-1	Kihei Canoe Club	>	_	9:20 125 ml	125 ml	Washed, rinsed syringes; acid washed bottles; 0.2 um disposable filters	

diments				
	0		500 ml	
	0	0	500 ml	
	0	0	500 ml	
			500 ml	

Signature (Team Lead): P1

Printed Name:
| Jana Stank