

I think this is

supposed to be 10-19-21 8.30 AM  
6/20/24

Quinn

G41: 11.2 11.30 102.7 7.64

G1 10.9 11.53 104.1 7.68

mama 10.8 11.35 102.2 7.66

N2: Full

CO2: 600 / 22 psi

Date & Time:		Name of person collecting data: Bruno								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	14.2	9.75	94.5%	7.95	G1	13.8	9.80	94.4	7.95	
					G2					
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					P1					
					P2					
					P3					
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH					A1					
					A2					
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH					G4					
					G5					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH					A4					
					A5					
					MAMA	13.5	10.06	96.1	7.96	
*N2 psi/sup: 100 / full					*CO2 psi/sup: 600 / 22					

Date & Time:		Name of person collecting data: Bruno								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.8	8.58	80.9	7.78	G1	12.9	8.96	84.4	7.81	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
					A3					
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	11.9	8.95	82.3	7.75	
*N2 psi/sup: /00 / Full					*CO2 psi/sup: 600 / 23					

Date & Time:		Name of person collecting data: Dailyn								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.7	10.37	98.0	7.92	G1	12.9	10.06	95.6	7.88	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
<i>*N2 psi/sup: 100 psi / Full</i>		<i>*CO2 psi/sup: 600 / 23 psi</i>		MAMA	12.6	10.77	101.4	7.92		

Date & Time:		10-18-24 9:18am		Name of person collecting data:		Dajlyn				Adjusted flow or set points?	
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH		
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	11.8	8.33	77.1	7.73	G1	11.9	8.42	78.1	7.73		
PH1 Pre-Fert 3mg/L, 7.4 pH					G2						
AH1 Ambient 8mg/L, 7.8- 7.9 pH					G3						
LH1 Larval Treatment 3mg/L, 7.4 pH					P1						
PH2 Pre-Fert 8mg/L, 7.8-7.9 pH					P2						
GH2 Gestational 8 mg/L, 7.8- 7.9 pH					P3						
LH2 Larval Treatment 8mg/L, 7.8-7.9 pH					A1						
AH2 Ambient 8mg/L, 7.8- 7.9 pH					A2						
					A3						
					R1						
					X1						
					X2						
					LTB						
					P4						
					P5						
					G4						
					G5						
					R2						
					R3						
					LAB						
					A4						
					A5						
					MAMA	11.6	8.54	78.7	7.73		
*N2 psi/sup: 90 psi (Full)					*CO2 psi/sup: 590/21 psi						

Date & Time:		6/17/24 2:45pm		Name of person collecting data:		Dylan				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.0	8.72	81.1	7.69	G1	12.25	8.68	81.3	7.68	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
					A3					
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	12.0	8.79	81.6	7.72	
*N2 psi/sup:	F24				*CO2 psi/sup:	25	625			

Date & Time:	6/17/24 AM				Name of person collecting data: Dylan Sarish					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.1	10.09	93.4	7.75	G1	12.15	10.08	93.8	7.76	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
					A3					
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	11.85	10.20	91.4	7.75	Bubbler OFF
<b>*N2 psi/sup:</b>					<b>*CO2 psi/sup: 24, 600</b>					

Date & Time: 6-16-24 2:57 pm					Name of person collecting data: Dailyn					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.5	9.91	91.1	7.67	G1	11.9	9.95	92.3	7.69	
					G2					
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					P1					
					P2					
					P3					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					A1					
					A2					
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					LTB					
					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					G4					
					G5					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					R2					
					R3					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					LAB					
					A4					
					A5					
					MAMA	11.3	10.15	92.8	7.66	

\*N2 psi/sup: 90% > Full

\*CO2 psi/sup: 600 / 21 psi

Date & Time: 6-16-24 9:55am		Name of person collecting data: Dailyn								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.6	11.17	104.9	7.90	G1	12.7	11.10	104.4	7.88	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
					A3					
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	12.5	11.21	105.0	7.90	bubbler ↓
*N2 psi/sup:	90psi	>	(n/a)							
*CO2 psi/sup:	400	/	20	psi						

Date & Time:

6/15/24 9:00 AM

Name of person collecting data: Sam

Date & Time:		6/15/24 9:00 AM		Name of person collecting data: Sam											
Header Tank	°C Temp	DO (mg/L)	DO %	pH	Adult Tank	°C Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?					
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	23	0.56	97.9	7.78	G1	26	0.49	98.2	7.78						
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2										
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3										
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1										
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2										
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3										
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1										
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2										
*N2 psi/sup:	7F				A3										
					R1										
					X1										
					X2										
					LTB										
					P4										
					P5										
					G4										
					G5										
					R2										
					R3										
					LAB										
					A4										
					A5										
					MAMA	1.8	0.55	96.9	7.80						
						*CO2 psi/sup: 22/550									

Date & Time: 6/15/24 2:00 pm		Name of person collecting data: John								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.7	11.24	105.7	7.82	G1	12.7	11.05	104.1	7.78	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
*N2 psi/sup: 75					A3					
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	2.9	11.41	107.7	7.88	
					*CO2 psi/sup: 22/550					





Date & Time: 6-13-24 9:00 AM

Name of person collecting data: Quinn

Date & Time:		6-13-24 9:00 AM		Name of person collecting data: Quinn						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	11.2	8.82	80.2	7.70	G1	11.3	9.01	82.2	7.73	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.9	3.05	28.2	7.51	P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.9	9.14	84.3	7.78	A1					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH					A2					
*N2 psi/sup: 7 full					A3					
					R1					
					X1					
					X2					
					LTB	11.9	4.01	37.0	7.51	Flow → gas outlet A↓
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB	11.8	8.93	82.2	7.78	
					A4					
					A5					
					MAMA	11.4	8.78	79.9	7.69	
										*CO2 psi/sup: 60.5 / 22 p:

Date & Time:		6-13 -29 4:00 pm		Name of person collecting data: Dunn						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	13.6	11.21	107.3	7.94	G1	13.6	10.95	104.8	7.91	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.5	2.97	20.5	7.45	P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.6	10.65	102.1	7.86	A1					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH					A2					
					A3					
					R1					
					X1					
					X2					
					LTB	13.5	4.36	41.6	7.95	↓00
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB	13.5	9.73	92.3	7.75	
					A4					
					A5					
					MAMA	13.5	12.9	107.9	7.97	

\*N2 psi/sup: 7 Full

\*CO2 psi/sup: 600 / 22 psi

Date & Time:		6-12-24 4:00 PM		Name of person collecting data: Qun						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.3	10.69	101.6	8.00	G1	13.4	11.19	106.9	8.03	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.1	3.52	33.3	7.41	P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.3	11.12	105.9	7.97	A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
*N2 psi/sup: 7 Full					A3					
					R1					
					X1					
					X2					
					LTB	13.5	4.29	41.1	7.67	Header flow Δ
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB	13.6	10.38	98.5	7.97	
					A4					
					A5					
					MAMA	12.5	10.69	100%	7.94	
					*CO2 psi/sup: 600 / 22 psi					

Date & Time:	6 / 12 / 24	9:30 AM		Name of person collecting data:	Quinn	Adjusted flow or set points?				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6	7.60	69.9	7.72	G1	12.5	7.63	71.0	7.72	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.3	3.05	27.7	7.54	P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.4	7.73	70.7	7.79	A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
					A3					
					R1					
					X1					
					X2					
					LTB	11.4	3.95	36.1	7.57	
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB	11.7	7.93	72.9	7.76	
					A4					
					A5					
					MAMA	11.2	7.74	70.3	7.71	

\*N2 psi/sup: 7 Full

\*CO2 psi/sup: 600 / 22 psi

Date & Time: 6/11/24 7:27pm

**Name of person collecting data:** Jasmin

Date & Time:	6/11/201	8:30 AM		Name of person collecting data: Dylan							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.3	8.51	77.7	7.74	G1	11.25	8.67	79.4	7.76		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2						
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3						
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.1	2.80	25.4	7.45	P1						
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2						
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3						
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.9	9.02	83.4	7.83	A1						
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2						
<i>*N2 psi/sup:</i>		<i>*CO2 psi/sup: 21.600</i>									

Date & Time: 6/10/24 11:41

Afternoon 4pm Name of person collecting data: Dylca

Date & Time:		Afternoon up					Name of person collecting data: Dylan				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
GH1 Gestational 8 mg/L, 7.8-7.9 pH	12.65	10.17	95.7	7.89	G1	13.1	10.37	98.6	7.92		
PH1 Pre-Fert 3mg/L, 7.4 pH					G2						
AH1 Ambient 8mg/L, 7.8-7.9 pH					G3						
LH1 Larval Treatment 3mg/L, 7.4 pH	12.6	2.89	27.1	7.42	P1						
PH2 Pre-Fert 8mg/L, 7.8-7.9 pH					P2						
GH2 Gestational 8 mg/L, 7.8-7.9 pH					P3						
LH2 Larval Treatment 8mg/L, 7.8-7.9 pH	13.7	10.12	97.3	7.89	A1					POST reset	
AH2 Ambient 8mg/L, 7.8-7.9 pH					A2						
*N2 psi/sup:						A3					
~941						R1					
						X1					
						X2					
						LTB	3.9	11.23	113.2	7.64	
						P4					
						P5					
						G4					
						G5					
							R2				
							R3				
							LAB	114.0	9.93	96.3	7.87
							A4				
							A5				
							MAMA	12.3	9.62	89.8	7.86
							*CO2 psi/sup: 22,600				



Date & Time: 6-9-24 2:51 pm

Name of person collecting data: Dailyn

Date & Time:		Name of person collecting data: Dailyn									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.4	8.00	74.7	7.83	G1	12.7	8.37	78.7	7.87		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2						
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3						
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.2	2.76	25.7	7.47	P1						
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2						
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3						
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.4	8.46	80.6	7.88	A1						
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2						
*N2 psi/sup: 100 psi / 2 F_W					A3						
*CO2 psi/sup: 600 / 21 psi					R1						
					X1						
					X2						
					LTB	13.6	3.80	36.5	7.50		
					P4						
					P5						
					G4						
					G5						
					R2						
					R3						
					LAB	13.8	8.69	83.8	7.89		
					A4						
					A5						
					MAMA	11.7	7.80	71.6	7.79		

Date & Time	Name of person collecting data: Dailyn					Adjusted flow or set points?				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.5	6.90	63.1	7.76	G1					parturition!
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.5	6.87	63.1	7.53	P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.2	6.02	54.6	7.72	A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
					A3					
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	12.1	9.09	84.4	7.92	turned on bubbler
*CO2 psi/sup: 600/21psi										

\*N2 psi/sup: 1/2 Full

Date & Time: 6/9/24 2:00pm

Name of person collecting data: Jan

Date & Time:		Name of person collecting data: Sam									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.5	6.89	63.0	7.77	G1	12.0	7.55	70.0	7.83		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2						
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3						
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.3	6.75	61.5	7.76	P1						
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2						
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3						
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	12.1	7.15	66.3	7.77	A1						
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2						
<i>*N2 psi/sup: ~ 1/4</i>					A3						
					R1						
					X1						
					X2						
					LTB						
					P4						
					P5						
					G4						
					G5						
					R2						
					R3						
					LAB						
					A4						
					A5						
					MAMA	11.3	6.42	58.5	7.72		
						<i>*CO2 psi/sup: 22/550</i>					

Date & Time:	Name of person collecting data: <i>dm</i>					Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
Header Tank	Temp	DO (mg/L)	DO %	pH							
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.2	8.71	81.3	7.95	G1	12.6	6.98	64.2	7.78		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2						
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3						
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.5	8.93	83.7	7.97	P1						
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2						
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3						
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.5	5.87	53.2	7.80	A1						
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2						
					A3						
					R1						
					X1						
					X2						
					LTB						
					P4						
					P5						
					G4						
					G5						
					R2						
					R3						
					LAB						
					A4						
					A5						
					MAMA	12.8	9.80	92.5	8.05		
*CO2 psi/sup: 22/550											

\*N2 psi/sup: ~ 74

Date & Time: 6/7/24

Name of person collecting data: Magg

Date & Time:		Name of person collecting data: M987								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or se points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	12.0°C	7.81	72.4%	7.87	G1	12.8°C	8.76	82.7%	7.96	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH Ambiant	11.8°C	7.62	70.4%	7.85	P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	12.5°C	7.59	71.1%	7.89	A1					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH					A2					
*N2 psi/sup: 1/2					A3					
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	11.7°C	7.00	64.4%	7.79	
						*CO2 psi/sup: 21	1600			



Date & Time:		6-6-24		2:30 pm		Name of person collecting data: Dumb				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.4	6.50	61.0	7.61	G1	12.5	7.01	65.6	7.72	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.9	6.42	59.5	7.63	P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	12.3	6.98	65.2	7.73	A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2					
*N2 psi/sup: 1/2 Full					A3					
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	11.5	6.41	58.7	7.64	
					*CO2 psi/sup: 600 / 22 psi					

Date & Time:	6-6-24 9:00AM		Name of person collecting data: Quinn							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
GH1 Gestational 8 mg/L, 7.8-7.9 pH	15.4	10.08	101.0	8.10	G1	14.4	9.51	93.1	8.03	8.03
PH1 Pre-Fert 3mg/L, 7.4 pH					G2					
AH1 Ambient 8mg/L, 7.8-7.9 pH					G3					
LH1 Larval Treatment 3mg/L, 7.4 pH	14.7	10.27	101.2	8.10	P1					
PH2 Pre-Fert 8mg/L, 7.8-7.9 pH					P2					
GH2 Gestational 8 mg/L, 7.8-7.9 pH					P3					
LH2 Larval Treatment 8mg/L, 7.8-7.9 pH	14.4	9.34	90.7	8.00	A1					
AH2 Ambient 8mg/L, 7.8-7.9 pH					A2					
					A3					
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	14.7	10.60	104.5	8.12	
*N2 psi/sup: < 1/2 Full					*CO2 psi/sup: 600 / 21 psig					

Date & Time: 2:00 PM

6-5-24

Name of person collecting data: John Doe

Date & Time:	June 8th, 2024 8:30		Name of person collecting data: Quinn										Adjusted flow or set points?	
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH					
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	10.16	98.0	7.77	G1	14.0	9.66	93.1	7.76					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.7	3.44	33.3	7.34	G2	14.0	6.66	66.6	7.76					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.9	9.94	96.7	7.76	G3	14.0	9.66	93.1	7.76					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.7	9.60	92.3	7.74	P1									
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	13.7	10.32	99.6	7.72	P2	Benz								
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.6	9.71	93.5	7.71	P3									
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.7	9.47	91.0	7.74	A1									
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.8	10.23	98.8	7.78	A2	BENZ								
					A3									
					R1									
					X1									
					X2									
					LTB									
					P4	Benz								
					P5									
					G4	Benz								
					G5	N								
					R2									
					R3									
					LAB									
					A4									
					A5									
					MAMA	13.7	10.55	101.8	7.74					

\*N2 psi/sup: 1/2 Full

\*CO2 psi/sup:

Date & Time: 2:05 pm 6/4/24

Name of person collecting data: Jasmin

Date & Time:		2:05pm 6/4/24		Name of person collecting data: Jasmin									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?			
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.5 °C	6.18	55.5%	7.59	G1	11.4 °C	6.41	58.7%	7.60				
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.6 °C	3.50	31.5%	7.34	G2								
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.4 °C	6.18	55.4%	7.59	G3								
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1								
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.7 °C	7.31	66.0%	7.62	P2	11.3 °C	3.21	29.4%	7.42				
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.6 °C	6.28	56.3%	7.60	P3								
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1								
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2	11.5 °C	6.40	58.7%	7.60				
<i>*N2 psi/sup:</i>					A3								
					R1								
					X1								
					X2								
					LTB								
					P4	11.3 °C	7.35	67.1%	7.60				
					P5								
					G4	11.5 °C	6.33	58.1%	7.60				
					G5								
					R2								
					R3								
					LAB								
					A4								
					A5								
					MAMA	10.4 °C	7.35	65.7%	7.57				
					<i>*CO2 psi/sup:</i> 600 / 23 psi								

Date & Time:	6/04/24 9AM		Name of person collecting data: Dylen								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	11.25	8.72	79.6	7.71	G1	11.65	8.95	82.3	7.72		
PH1 Pre-Fert 3mg/L, 7.4 pH	11.4	3.25	21.7	7.42	G2						
AH1 Ambient 8mg/L, 7.8- 7.9 pH	11.3	8.96	81.8	7.72	G3						
LH1 Larval Treatment 3mg/L, 7.4 pH					P1						
PH2 Pre-Fert 8mg/L, 7.8-7.9 pH	11.4	9.30	85.2	7.71	P2	11.65	3.07	28.3	7.42		
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	11.3	8.82	80.5	7.71	P3						
LH2 Larval Treatment 8mg/L, 7.8-7.9 pH					A1						
AH2 Ambient 8mg/L, 7.8- 7.9 pH					A2	11.8	8.82	81.4	7.72		
					A3						
					R1						
					X1						
					X2						
					LTB						
					P4	11.9	9.28	85.7	7.72		
					P5						
					G4	11.7	8.85	81.7	7.72		
					G5						
					R2						
					R3						
					LAB						
					A4						
					A5						
					MAMA	11.25	8.39	76.5	7.71		
*N2 psi/sup:		7 1/2			*CO2 psi/sup:		20,600				

Date & Time: 6/3/2024 2:00 p.m.

**Name of person collecting data:**

Date & Time:	5/03/24		9:30		Name of person collecting data: Dylyn					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	11.15	8.71	78.9	7.69	G1	11.65	8.80	80.8	7.76	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.2	3.31	30.0	7.46	G2					
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	11.15	8.77	79.6	7.70	G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	11.25	9.26	84.3	7.71	P2	11.85	3.03	27.9	7.42	
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	11.25	8.72	79.2	7.71	P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH					A2	11.8	8.92	82.2	7.77	
					A3					
					R1					
					X1					
					X2					
					LTB					
					P4	11.85	9.30	85.7	7.77	
					P5					
					G4	12.0	8.85	81.9	7.79	
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	10.95	8.98	80.1	7.69	

\*N2 psi/sup:

\*CO2 psi/sup:

Date &amp; Time: 6-2-24 2:05pm

Name of person collecting data: Dailyn

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.7	8.00	72.0	7.65	G1	10.9	7.84	70.8	7.61	
					G2					
					G3					
					P1					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.5	3.46	30.9	7.47	P2	10.9	3.19	28.9	7.44	
					P3					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.7	7.87	70.7	7.64	A1					
					A2	11.1	7.69	69.6	7.61	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.7	8.67	77.8	7.65	P4	11.1	8.50	76.9	7.62	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.7	7.81	70.2	7.63	G4	11.2	7.67	69.7	7.61	
					G5					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					R2					
					R3					
					LAB					
					A4					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A5					
					MAMA					

\*N2 psi/sup: 200 / &lt; Full

\*CO2 psi/sup: 100 / 21 psi

Date & Time: 6/2/24 8:55 am					Name of person collecting data: Dailyn + Nicolle					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	10.9	8.10	72.9	7.71	G1	11.26	8.32	75.6	7.77	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.0	3.41	30.8	7.43	G2					
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	11.0	8.18	73.6	7.73	G3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	11.0	8.88	80.1	7.73	P2	11.5	3.12	28.6	7.49	DO 0.1, pH + C-2
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	11.1	8.20	74.1	7.73	P3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					A1					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH					A2	11.5	8.19	74.8	7.77	
<b>*N2 psi/sup:</b> 235 / < Full					A3					
					R1					
					X1					
					X2					
					LTB					
					P4	11.6	8.82	80.7	7.76	
					P5					
					G4	11.4	8.31	76.2	7.83	
					G5					
					R2					
					R3					
					LAB					
					A4					
					A5					
					MAMA	10.7	7.97	71.4	7.71	
										*CO2 psi/sup: 100 / 21 psi

Date & Time		Name of person collecting data: Lorenzo								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	10.6	7.92	71.1	7.65	G1	10.9	7.59	68.5	7.64	
					G2					
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.3	3.69	33.0	7.41	P1					
					P2	10.9	3.56	32.1	7.43	DO ↓
					P3					
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	10.4	7.70	68.8	7.63	A1					
					A2	10.8	7.54	68.2	7.61	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.6	8.48	76.2	7.66	P4	11.0	8.28	75.0	7.63	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	10.7	7.65	68.9	7.63	G4	11.0	7.66	69.6	7.62	
					G5					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH					A4					
					A5					
					MAMA	12.1	10.48	97.3	7.88	

\*N2 psi/sup: 250 psi

\*CO2 psi/sup: 20 psi / 600 psi

Date & Time:		9:00 am 06/11/24		Name of person collecting data:		Sunny P.				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.8	8.12	73.0	7.67	G1	11.0	8.19	74.1	7.70	
					G2	11.0	8.29	75.3	7.71	
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.0	3.60	32.4	7.49	P1					
					P2	11.2	4.46	40.5	7.47	pH ↓
					P3	11.2	4.57	41.5	7.48	DO → normal
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.8	8.09	72.7	7.68	A1					
					A2	11.2	8.29	75.5	7.71	
					A3					
<b>LH1</b> Larval X Treatment 3mg/L, 7.4 pH	11.0	8.13	73.3	7.68	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.8	8.84	79.5	7.68	LTB					
					P4	11.4	8.88	80.9	7.71	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.8	8.11	72.9	7.67	G4	11.7	8.14	74.2	7.73	
					G5	11.7	8.31	75.7	7.73	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	10.8	8.15	73.3	7.68	R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.8	8.06	72.5	7.66	A4					
					A5	11.1	8.84	80.4	7.70	
					MAMA	10.7	8.05	72.3	7.65	

\*N2 psi/sup: Full-changed tanks

\*CO2 psi/sup: 22/550

Low O<sub>2</sub> event

Date &amp; time:

1:17 pm 05/31/2021

Name of person collecting data: Matt

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	12.1°C	10.13	94.3%	7.77	G1	11.6°C	8.13	74.5%	7.61	
					G2	11.5°C	8.21	75.3%	7.61	
					G3	X	X	X	X	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.6°C	3.73	34.3%	7.47	P1	X	X	X	X	
					P2	11.5°C	3.40	31.2%	7.39	
					P3	11.5°C	3.48	31.8%	7.39	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	12.0°C	10.19	94.6%	7.75	A1	X	X	X	X	
					A2	11.9°C	9.14	84.4%	7.66	
					A3	X	X	X	X	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	X	X	X	X	R1					
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	13.1°C	10.86	103.4%	7.89	P4	12.1°C	9.40	87.2%	7.68	
					P5	X	X	X	X	
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	12.9°C	10.14	95.9%	7.86	G4	11.7°C	8.19	75.5%	7.63	
					G5	11.7°C	8.21	76.3%	7.64	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	X	X	X	X	R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	12.6°C	10.44	98.2%	7.84	A4	X	X	X	X	
					A5	11.9°C	8.66	80.1%	7.62	
					MAMA	13.4°C	11.02	105.4%	7.94	

\*N2 psi/sup: 1/2 Full

\*CO2 psi/sup: 600/721 psi

Date & Time:		9:30 5/31/24		Name of person collecting data: Madison						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.85	10.52	95.1	7.68	G1	11.25	10.40	94.6	7.74	
					G2	11.15	10.45	94.9	7.76	
					G3	x	x	x	x	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.0	3.23	30.0	7.49	P1	x	x	x	x	
					P2	11.8	3.81	35.2	7.45	
					P3	11.65	3.74	34.3	7.48	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.0	10.44	94.5	7.68	A1	x	x	x	x	
					A2	11.25	10.50	95.7	7.72	
					A3	x	x	x	x	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.25	10.17	92.8	7.72	R1					
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.85	10.53	95.1	7.67	P4	11.35	10.68	97.5	7.72	
					P5	x	x	x	x	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.85	10.30	93.0	7.67	G4	11.35	10.26	93.8	7.74	
					G5	11.35	10.39	95.1	7.74	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	x	x	x	x	R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.0	10.21	92.2	7.67	A4	x	x	x	x	
					A5	11.4	10.51	96.3	7.74	
					MAMA	10.5	9.26	82.8	7.02	

\*N2 psi/sup: 1/2 f/u)

\*CO2 psi/sup: 600/121 psi

Date & Time		5-30-24 2 pm		Name of person collecting data:		Qian				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.0	9.61	89.3	7.73	G1	11.3	7.65	69.8	7.54	
					G2	11.3	7.79	71.1	7.55	
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.6	3.27	30.0	7.40	P1					
					P2	11.3	3.51	32.1	7.36	
					P3	11.3	3.51	32.6	7.36	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.2	9.95	92.6	7.75	A1					
					A2	11.3	8.32	76.1	7.55	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.9	8.50	78.7	7.64	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	12.6	10.37	97.4	7.78	LTB					
					P4	11.7	8.70	79.8	7.60	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.3	7.83	72.7	7.72	G4	11.6	8.67	74.2	7.56	
					G5	11.7	8.03	73.7	7.57	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.8	8.46	78.1	7.64	R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.3	9.62	89.7	7.75	A4					
					A5	11.8	8.71	80.3	7.56	
					MAMA	12.5	10.49	98.5	7.81	
*N2 psi/sup:<1/2 Full					*CO2 psi/sup: 600 / 21 psi					

Date & Time:		5/30/24 8:00 AM		Name of person collecting data: Quinn						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0	10.56	94.9	7.76	G1	11.2	10.49	95.2	7.76	
					G2	11.2	10.53	95.7	7.82	
					G3	11.2	10.53	95.7	7.82	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.1	3.35	30.4	7.46	P1	11.0	3.35	30.4	7.46	
					P2	11.5	3.39	31.0	7.49	G head + flow
					P3	11.8	3.51	32.2	7.43	↓ issue
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.0	10.59	95.7	7.71	A1	11.2	10.49	95.2	7.76	
					A2	11.3	10.33	94.2	7.83	
					A3	11.3	10.33	94.2	7.83	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.4	5.60	50.6	7.54	R1	11.2	5.60	50.6	7.54	
					X1	11.2	5.60	50.6	7.54	
					X2	11.2	5.60	50.6	7.54	
					LTB	11.2	5.60	50.6	7.54	
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	16.9	10.80	97.5	7.76	P4	11.3	10.75	97.9	7.76	
					P5	11.3	10.75	97.9	7.76	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0	10.58	95.6	7.75	G4	11.3	10.49	95.6	7.76	
					G5	11.3	10.57	96.3	7.95	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.1	10.61	96.0	7.77	R2	11.2	10.61	96.0	7.77	
					R3	11.2	10.61	96.0	7.77	
					LAB	11.2	10.61	96.0	7.77	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.9	10.59	95.7	7.74	A4	11.3	10.64	96.9	7.83	
					A5	11.3	10.64	96.9	7.83	
					MAMA	10.8	10.68	95.9	7.67	
*N2 psi/sup: 1/2 full					*CO2 psi/sup: 600 / 22 psi					

Date & Time		5-29-24 3 pm		Name of person collecting data: Qinn						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.0	10.94	103.3	7.86	G1	13.2	10.63	100.8	7.83	
					G2	13.1	10.57	100.3	7.83	
					G3	13.2	10.62	100.2	7.82	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.2	2.97	28.2	7.39	P1	13.6	3.30	31.8	7.41	
					P2	13.3	3.24	30.9	7.43	
					P3	13.3	3.24	30.9	7.43	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.9	7.48	68.8	7.85	A1	13.2	10.63	100.8	7.83	
					A2	13.1	10.22	96.9	7.82	
					A3	13.2	10.62	100.2	7.82	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.2	2.43	23.1	7.41	R1	13.7	2.78	26.2	7.36	
					X1	13.2	2.78	26.2	7.36	
					X2	13.2	2.78	26.2	7.36	
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	12.9	10.83	102.2	7.87	LTB	13.0	2.78	26.2	7.36	
					P4	13.1	10.52	99.6	7.82	
					P5	13.2	10.63	100.8	7.83	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.9	10.60	97.9	7.85	G4	13.1	10.10	95.6	7.80	
					G5	13.1	10.20	96.7	7.80	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.0	10.19	96.3	7.81	R2	13.2	10.63	100.8	7.83	
					R3	13.1	10.20	96.7	7.80	
					LAB	13.0	8.21	77.4	7.66	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.0	10.82	102.2	7.87	A4	13.2	10.63	100.8	7.83	
					A5	13.1	10.42	98.9	7.80	
					MAMA	11.9	10.84	102.7	7.84	
*N2 psi/sup: 1/2 Full					*CO2 psi/sup: 60/120 ps					

Date & Time:		5-29-24 8 AM		Name of person collecting data: Quinn						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.6	8.32	74.2	7.69	G1	10.7	8.39	75.3	7.69	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.0	3.42	30.6	7.52	G2	10.7	8.51	76.4	7.69	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.6	8.26	73.7	7.71	G3	10.7	8.39	75.3	7.69	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.8	2.80	25.2	7.53	P1	10.7	8.39	75.3	7.69	
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.6	8.45	75.6	7.70	P2	11.3	3.33	30.2	7.49	↓ pH
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.6	8.29	74.1	7.70	P3	11.2	3.31	30.1	7.46	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	10.6	8.91	79.6	7.70	A1	10.7	8.39	75.3	7.69	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.6	8.30	73.9	7.69	A2	10.9	8.62	77.5	7.72	
					A3	10.7	8.39	75.3	7.69	
					R1	10.7	8.39	75.3	7.69	
					X1	10.7	8.39	75.3	7.69	
					X2	10.7	8.39	75.3	7.69	
					LTB	10.6	3.40	30.3	7.47	no larvae on filter
					P4	10.9	9.09	81.7	7.72	
					P5	10.7	2.22	22.2		
					G4	10.9	8.56	76.8	7.72	
					G5	10.9	8.64	77.8	7.73	
					R2	10.7	8.39	75.3	7.69	
					R3	10.7	8.39	75.3	7.69	
					LAB	10.6	8.56	76.8	7.77	
					A4	10.7	8.39	75.3	7.69	
					A5	10.9	8.93	80.3	7.74	
					MAMA	10.4	8.25	73.3	7.67	
*N2 psi/sup: 1/2 full					*CO2 psi/sup: 600 / 22 psi					

Date & Time		5-28-24 5:30 PM		Name of person collecting data: Dylan						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.9	8.82	81.0	7.67	G1	13.0	9.50	89.5	7.76	
					G2	13.0	9.65	90.9	7.77	
					G3	wave	wave	wave	wave	MT
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.75	3.23	30.3	7.46	P1	wave	wave	wave	wave	MT
					P2	13.05	3.14	29.7	7.38	
					P3	13.15	3.35	31.6	7.39	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	8.71	79.7	7.65	A1	wave	wave	wave	wave	MT
					A2	12.55	9.42	87.8	7.74	
					A3	wave	wave	wave	wave	MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.75	2.62	24.6	7.32	R1	wave	wave	wave	wave	
					X1	wave	wave	wave	wave	PH 10.01
					X2	wave	wave	wave	wave	DO 10.1%
					LTB	13.15	2.45	25.1	7.34	MT
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	11.65	9.46	86.7	7.69	P4	12.8	9.81	92.0	7.76	
					P5	wave	wave	wave	wave	MT
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.65	9.08	82.9	7.69	G4	12.85	9.57	90.0	7.78	
					G5	12.8	9.78	91.8	7.78	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	wave	wave	wave	wave	R2	wave	wave	wave	wave	
					R3	wave	wave	wave	wave	
					LAB	wave	wave	wave	wave	MT
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.55	8.88	81.0	7.66	A4	wave	wave	wave	wave	MT
					A5	12.65	9.76	91.4	7.76	
					MAMA	11.3	8.56	77.6	7.62	

Date & Time:		5-28-24 8:30 AM		Name of person collecting data:		Dylon				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.9	7.63	83.8	7.79	G1	10.4	7.50	83.1	7.82	2
					G2	10.4	7.52	83.5	7.82	1
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.3	3.26	36.1	7.68	P1					2
					P2	10.7	3.13	34.7	7.63	1
					P3	10.7	3.22	35.9	7.63	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.1	7.56	83.3	7.81	A1					1
					A2	10.5	7.55	84.0	7.84	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.1	8.17	90.1	7.82	P4	10.7	8.07	90.1	7.87	1
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.0	7.75	85.2	7.80	G4	10.4	7.51	83.5	7.84	2
					G5	10.5	7.62	84.7	7.83	1
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	9.9	7.77	85.3	7.79	A4					2
					A5	10.5	7.90	87.9	7.83	
					MAMA	9.8	7.78	85.3	7.78	
<b>*N2 psi/sup:</b> 35 1/2					<b>*CO2 psi/sup:</b> 21; 575					

Y51 - No 14 Hatch

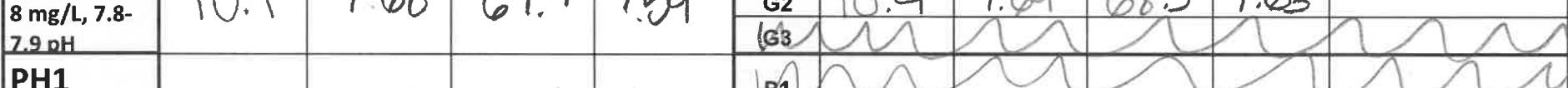
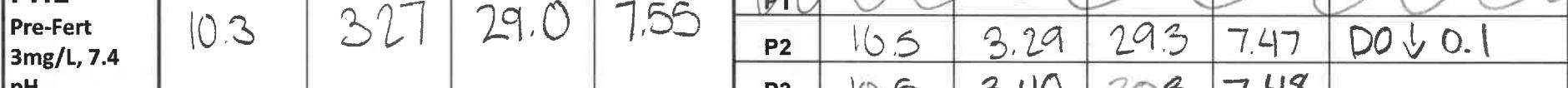
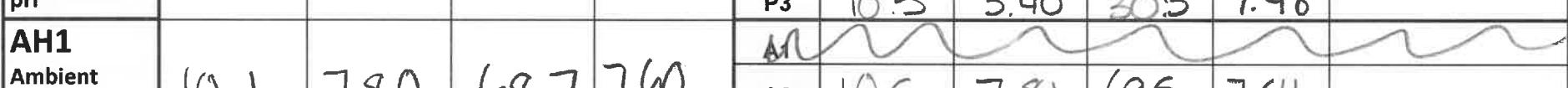
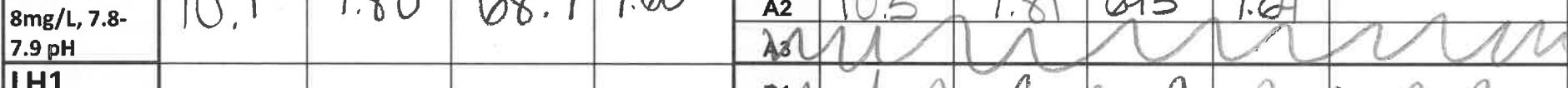
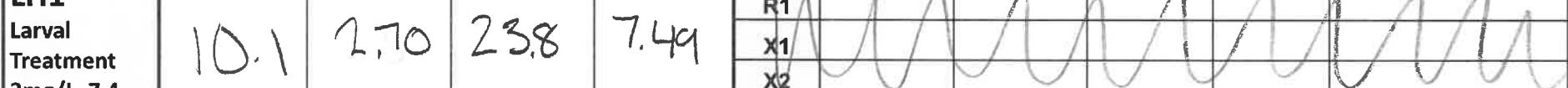
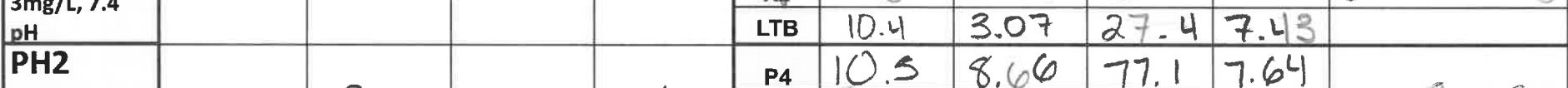
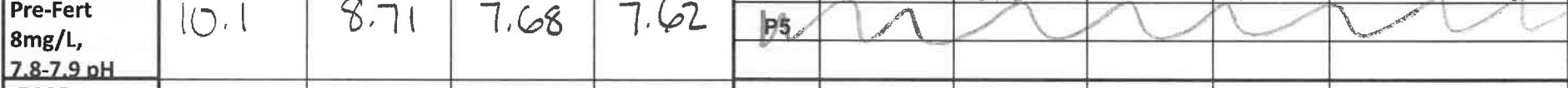
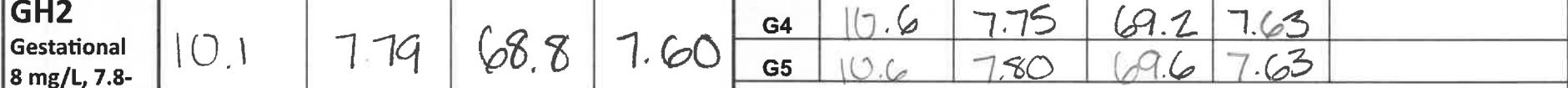
Date & Time		Name of person collecting data: N.G.								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.25	10.39	98.6	7.88	G1	13.15	9.99	94.5	7.83	
					G2	13.00	10.01	94.5	7.83	
					G3					MT
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.9	3.12	29.4	7.26	P1					MT
					AP2	12.3	3.13	29.1	7.36	PH 10.01
					AP3	12.35	3.19	29.6	7.38	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.25	10.27	97.3	7.87	A1					MT
					A2	12.85	9.71	91.4	7.82	
					A3					MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.05	2.57	24.3	7.35	R1					
					X1					DO 90.1%
					X2					
	13.35	10.56	100.3	7.81	LTB	11.5	2.76	25.1	7.38	
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH					P4	12.85	9.97	93.9	7.79	
					P5					MT
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.2	10.38	98.5	7.88	G4	12.85	9.70	91.3	7.80	
					G5	12.85	9.87	93.1	7.81	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.2	10.48	99.4	7.84	R2					
					R3					
					LAB					MT
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.35	10.55	100.4	7.89	A4					MT
					A5	12.85	9.91	93.3	7.80	
					MAMA	13.35	10.59	100.5	7.89	
*N2 psi/sup:	35			*CO2 psi/sup:	21; 600					

Date & Time:		5/27/24 8:45 AM		Name of person collecting data: Dylan						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.15	7.61	67.2	7.53	G1	10.35	7.74	69.0	7.57	2
					G2	10.6	7.71	69.4	7.57	1
					G3					MT
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.4	3.43	30.5	7.26	P1					MT
					P2	10.7	3.25	29.2	7.36	PH↑ 0.01
					P3	10.75	3.38	30.3	7.38	DO↓ 0.2%
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.15	7.40	65.5	7.53	A1					MT
					A2	10.7	7.90	70.6	7.58	1
					A3					MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.15	2.15	24.5	7.35	R1					
					X1					
					X2					DO↑ 0.1%
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.35	8.48	75.5	7.58	LTB	10.3	2.18	24.7	7.37	PH↑ 0.01
					P4	10.85	8.71	78.2	7.61	1
					P5					MT
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.25	7.56	67.1	7.56	G4	10.55	7.82	69.8	7.59	2
					G5	10.55	7.99	71.5	7.59	1
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH					R2					
	10.25	7.49	66.3	7.56	R3					
					LAB					MT
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					MT
	10.15	7.39	65.3	7.56	A5	10.5	8.56	76.3	7.59	2
					MAMA	10.1	7.26	72.3	7.54	1
*N2 psi/sup: 35; 1/2					*CO2 psi/sup: 21; 575					

Date & Time		Name of person collecting data: Dailym								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	12.3	9.42	87.6	7.87	G1	12.4	9.01	83.8	7.82	
					G2	12.4	9.10	84.7	7.82	
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.4	3.39	31.4	7.43	P1					
					P2	12.2	3.23	29.9	7.44	DO ↓ 0.1
					P3	12.2	3.32	30.8	7.44	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	12.3	9.28	86.2	7.85	A1					
					A2	12.4	8.96	83.2	7.80	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.4	2.77	25.8	7.44	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	12.4	9.73	90.6	7.86	LTB	12.3	2.86	26.6	7.42	DO ↑ 0.2
					P4	12.5	9.49	88.4	7.80	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	12.3	9.24	85.7	7.83	G4	12.4	8.85	82.4	7.78	
					G5	12.4	8.84	82.3	7.78	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	12.4	9.15	85.0	7.82	R2					
					R3					
					LAB	12.0	8.86	74.4	7.69	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	12.4	9.44	87.8	7.86	A4					
					A5	12.4	9.44	87.8	7.78	bubbling
					MAMA					

\*N2 psi/sup: 87 psi / 1/2 full

\*CO2 psi/sup: 600 / 21 psi

Date & Time: 5-26-24 9 am					Name of person collecting data: Dailyn + Nicolle					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.1	7.68	67.7	7.59		G1	10.4	7.61	67.6	7.62
						G2	10.4	7.69	68.3	7.63
						G3				
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.3	3.27	29.0	7.55		P1				
						P2	10.5	3.29	29.3	7.47
						P3	10.5	3.40	30.3	7.48
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.1	7.80	68.7	7.60		A1				
						A2	10.5	7.81	69.5	7.64
						A3				
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.1	2.70	23.8	7.49		R1				
						X1				
						X2				
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.1	8.71	7.68	7.62		LTB	10.4	3.07	27.4	7.43
						P4	10.5	8.66	77.1	7.64
						P5				
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.1	7.79	68.8	7.60		G4	10.6	7.75	69.2	7.63
						G5	10.6	7.80	69.6	7.63
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	10.2	7.80	68.9	7.62		R2				
						R3				
						LAB	10.3	8.14	72.1	7.66
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.2	7.57	69.4	7.62		A4				
						A5	10.5	8.42	75.0	7.62
						MAMA	10.0	7.33	64.4	7.59

\*N2 psi/sup: 85 psi / 1/2 Full

\*CO2 psi/sup: 550 / 21 psi

Date & Time: 2:00pm 5/25/75		Name of person collecting data: Samy A								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.9	10.25	94.2	7.81	G1	12.6	10.48	98.1	7.87	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.6	3.36	31.4	7.49	G2	12.7	10.61	99.5	7.88	
					G3					
					P1					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.0	10.30	95.0	7.85	P2	13.1	3.21	30.3	7.42	DO↓
					P3	13.1	3.32	31.4	7.44	
					A1					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.5	2.91	27.1	7.49	A2	12.8	10.64	100.0	7.88	
					A3					
					R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	12.2	10.96	101.4	7.81	LTB	13.2	2.74	26.0	7.47	DO↑, pH↓
					P4	13.0	10.97	103.5	7.87	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.3	10.59	98.3	7.83	G4	13.2	10.88	103.2	7.87	
					G5	13.2	10.88	103.0	7.87	
					R2					
					R3					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	12.6	10.69	100.0	7.87	LAB	13.2	11.19	106.2	7.89	
					A4					
					A5	13.2	10.65	101.6	7.87	
					MAMA	12.0	10.12	92.7	7.76	
*N2 psi/sup: 3/4					*CO2 psi/sup: 22/550					

Date & Time		9:30 AM 5/25/24		Name of person collecting data: Sammy P						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.0	10.92	103.2	7.94	G1	13.0	10.86	102.6	7.89	
					G2	12.9	11.04	104.0	7.89	
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.8	3.40	32.0	7.53	P1					
					P2	11.8	3.37	31.0	7.52	↓ pH
					P3	12.0	3.33	30.7	7.49	↓ DO
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	11.92	104.2	7.84	A1					
					A2	12.9	10.90	102.5	7.88	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.8	2.44	22.9	7.54	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	11.0	12.26	110.4	7.70	LTB	11.8	2.70	24.7	7.82	DO↑, pH↓
					P4	13.0	11.16	105.4	7.84	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.5	12.09	107.9	7.64	G4	12.8	11.09	103.6	7.84	
					G5	12.6	11.12	104.2	7.84	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	12.2	11.16	103.4	7.96	R2					
					R3					
					LAB	11.4	11.62	105.7	7.78	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.9	11.00	103.7	7.97	A4					
					A5	12.8	11.05	103.7	7.86	
					MAMA	12.7	11.08	104.0	7.95	
*N2 psi/sup: 3/4					*CO2 psi/sup: 22/550					

Date & Time:		9 AM	5/24/24	Name of person collecting data: Madison						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.3	10.77	103.1	7.96	G1 G2 G3	13.25	10.57	100.5	7.91	
						13.0	10.58	100.2	7.89	
						X	X	X	X	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.4	3.31	31.6	7.42	P1 P2 P3	X	X	X	X	
						12.4	3.29	30.7	7.44	
						12.4	3.31	30.8	7.45	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.3	10.59	100.9	7.93	A1 A2 A3	X	X	X	X	
						12.9	10.57	99.9	7.87	
						X	X	X	X	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.20	2.86	27.2	7.48	R1 X1 X2 LTB	X	X	X	X	
						X	X	X	X	
						X	X	X	X	
						11.9	2.77	25.5	7.50	↑ DO.02 ↓ .0
						12.9	10.88	102.9	7.90	
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	13.25	10.98	104.0	7.95	P4 P5	Y	X	X	X	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.25	10.82	103.1	7.94	G4 G5	12.75	10.57	99.6	7.85	
						12.75	10.61	99.9	7.85	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.30	10.74	102.4	7.92	R2 R3 LAB	X	X	X	X	
						X	X	X	X	
						12.5	10.58	98.6	7.79	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.30	10.93	104.3	7.97	A4 A5 MAMA	X	X	X	X	
						12.75	10.62	100.1	7.85	
						12.9	10.98	109.0	7.94	
*N2 psi/sup:	35	> FULL			*CO2 psi/sup:	21	600			

Date & Time: 2 pm 5/24		Name of person collecting data: Madison								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.55	10.74	98.5	7.74	G1	12.3	10.50	98.0	7.79	
					G2	12.35	10.65	99.4	7.80	
					G3	x	x	x	x	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.1	3.09	28.7	7.43	P1	x	x	x	x	
					P2	12.75	3.32	31.2	7.42	
					P3	12.9	3.21	30.3	7.41	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.55	10.70	98.1	7.75	A1	x	x	x	x	
					A2	12.7	10.44	98.0	7.82	
					A3	x	x	x	x	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.85	3.03	28.0	7.43	R1	x	x	x	x	
					X1	x	x	x	x	
					X2	x	x	x	x	
					LTB	12.7	2.90	27.3	7.43	
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	11.85	10.93	100.7	7.74	P4	12.4	10.87	101.7	7.79	
					P5	x	x	x	x	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.65	10.82	99.4	7.75	G4	12.6	10.64	99.9	7.84	
					G5	12.5	10.75	100.4	7.83	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	12.55	10.91	102.2	7.86	R2	x	x	x	x	
					R3	x	x	x	x	
					LAB	12.5	11.00	102.8	7.87	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.55	10.81	99.2	7.73	A4	x	x	x	x	
					A5	12.2	10.67	99.1	7.80	
					MAMA	11.6	10.77	98.7	7.72	
*N2 psi/sup:					*CO2 psi/sup:					

Date & Time:		5/23/24 2:36pm		Name of person collecting data: Jasmin						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.4°C	9.90°C	90.6%	7.73	G1	12.1°C	10.28	95.5%	7.78	
					G2	12.3°C	10.46	97.5%	7.81	
					G3					MT
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.9°C	3.27	30.2%	7.52	P1					MT
					P2	12.0°C	4.33	40.2%	7.47	
					P3	12.3°C	3.32	31.0%	7.46	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.5°C	9.97	91.4%	7.75	A1					MT
					A2	12.2°C	10.41	97.5%	7.80	
					A3					MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.0°C	2.64	24.5%	7.43	R1					MT
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	11.5°C	10.38	95.0%	7.76	LTB	13.2°C	4.60	43.8%	7.49	
					P4	12.0°C	10.51	97.5%	7.79	
					P5					MT
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.5°C	10.12	92.5%	7.76	G4	12.4°C	10.33	96.5%	7.82	
					G5	12.4°C	10.40	97.1%	7.80	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.9°C	10.38	95.9%	7.79	R2					MT
					R3					MT
					LAB	12.6°C	10.74	101.0%	7.84	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.4°C	10.01	91.5%	7.74	A4					MT
					A5	12.2°C	10.30	96.1%	7.78	
					MAMA	11.1°C	10.02	90.8%	7.70	

\*N2 psi/sup: full

\*CO2 psi/sup: 606 psi / 24 psi

\*Reset tank miller to 52°F

Date & Time:		5/23/24 10:30 AM		Name of person collecting data:		Dylan					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.2	12.82	121.9	7.91	G1	13.4	11.17	107.2	7.91		
					G2	13.5	11.08	106.0	7.99		
					G3						mt
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.20	30.7	7.44	P1						
					P2						PAAT
					P3	13.3	3.21	30.6	7.45		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.0	11.67	110.4	7.90	A1						
					A2	13.6	10.55	101.3	7.90		
					A3						
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.15	2.65	25.2	7.45	R1						
					X1						
					X2						
					LTB	13.85	5.13	48.9	7.51		
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	12.4	11.47	107.3	7.86	P4						
					P5	13.25	11.58	110.2	7.88		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.8.	11.75	110.8	7.87	G4	13.4	11.02	105.4	7.86		
					G5	13.4	11.10	106.1	7.86		
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.15	11.45	108.6	7.87	R2						
					R3						
					LAB	13.1	10.57	100.4	7.78		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.7	12.01	113.0	7.88	A4						
					A5	13.25	11.44	108.9	7.86		
					MAMA	12.3	11.18	104.3	7.86		
*N2 psi/sup: 35   <F411						*CO2 psi/sup: 21; 500					

Date & Time: 5/22/24 4 pm		Name of person collecting data: Dylan								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.35	10.08	89.8	7.57	G1	10.9	10.04	90.8	7.61	
					G2	11.05	10.15	92.0	7.63	
					G3					MT
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.9	3.51	31.7	7.45	P1					MT
					P2	11.75	3.27	30.1	7.43	DO + 1%
					P3	11.8	3.26	30.0	7.44	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.45	9.97	89.1	7.58	A1					MT
					A2	11.15	10.07	91.5	7.64	
					A3					MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.8	2.35	21.2	7.48	R1					PH + 0.01
					X1					DO + 0.1%
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	10.6	10.42	93.4	7.60	LTB	12.6	5.46	51.3	7.51	
					P4	11.25	10.51	95.7	7.66	
					P5					MT
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.6	0.09	90.6	7.60	G4	11.6	10.15	93.1	7.68	
					G5	11.5	10.26	93.9	7.67	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.0	10.27	93.0	7.68	R2					
					R3					
					LAB	12.2	10.35	96.1	7.71	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.45	10.11	90.3	7.60	A4					MT
					A5	11.4	10.45	95.2	7.67	
					MAMA	10.4	10.05	89.6	7.58	

\*N2 psi/sup: F711

\*CO2 psi/sup: 22; 600

Date & Time:		5/22/24 9:30 AM		Name of person collecting data: JASMIN LORETTA						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.7	10.81	103.7	7.98	G1	13.5	10.62	101.6	7.96	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.3	3.38	32.1	7.69	G2	13.4	10.72	102.2	7.96	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.8	10.63	100.2	7.96	G3					MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.4	2.59	24.9	7.45	P1					MT
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	13.3	10.95	104.3	7.98	P2	13.3	3.20	30.4	7.63	pH wasn't regulating gas turned up now
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.3	10.80	102.8	7.98	P3	13.2	3.25	31.0	7.63	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.4	10.69	102.0	7.97	A1					MT
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.4	10.79	103.0	7.96	A2	13.3	10.64	101.3	7.95	
					A3					MT
					R1					
					X1					
					X2					
					LTB	12.2	5.20	48.7	7.53	
					P4	13.3	10.79	102.8	7.93	
					P5					MT
					G4	13.3	10.55	100.5	7.92	
					G5	13.3	10.66	101.4	7.92	
					R2					
					R3					
					LAB	12.6	10.67	100.2	7.87	
					A4					MT
					A5	13.3	10.57	100.6	7.92	
					MAMA	13.1	10.72	101.7	7.92	
*N2 psi/sup: Full					*CO2 psi/sup: 20 psi / 600 psi					

Date & Time:		5/21/24 2:13 pm		Name of person collecting data: Jasmin						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6 °C	10.69	98.1%	7.76	G1	12.3 °C	10.75	100.3%	7.82	
					G2	12.4 °C	10.81	101.0%	7.85	
					G3				MT	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.3 °C	3.35	31.2%	7.53	P1				MT	
					P2	12.8 °C	3.20	30.2%	7.46	CO <sub>2</sub> valve ↓
					P3	12.8 °C	3.21	30.3%	7.46	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.7 °C	10.65	97.8%	7.78	A1				MT	
					A2	12.5 °C	10.67	99.8%	7.85	
					A3				MT	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.2 °C	2.69	25.0%	7.44	R1					
					X1					pH ↓ 0.01
					X2					DO ↓ 0.1%
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	11.6 °C	10.94	100.3%	7.77	LTB	13.2 °C	5.11	48.6%	7.55	
					P4	12.2 °C	10.85	101.1%	7.82	
					P5				MT	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6 °C	10.85	99.5%	7.78	G4	12.7 °C	10.67	100.1%	7.84	
					G5	12.6 °C	10.79	101.1%	7.84	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	12.0 °C	10.86	100.5%	7.81	R2					
					R3					
					LAB	12.7 °C	10.41	97.9%	7.84	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.4 °C	10.82	98.8%	7.73	A4				MT	
					A5	12.5 °C	10.79	100.9%	7.81	
					MAMA	11.1 °C	10.61	96.6%	7.67	

\*N2 psi/sup: 35 / 1411

\*CO<sub>2</sub> psi/sup: 600 / 24 psi

Date & Time:		5/21/20 9:30		Name of person collecting data: Dylan						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.65	10.82	101.4	7.88	G1	13.0	10.70	101.3	7.94	
					G2	13.0	10.77	101.9	7.94	
					G3					MT
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.1	3.14	29.8	7.55	P1					MT
					P2	13.05	3.16	29.8	7.47	PH↓ 0.01
					P3	13.05	3.23	30.5	7.48	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.65	10.78	101.2	7.90	A1					MT
					A2	13.0	10.69	101.3	7.94	
					A3					MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.05	2.70	25.5	7.48	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	12.5	11.00	103.0	7.89	LTB	11.85	5.02	46.4	7.55	
					P4	13.0	10.88	102.9	7.74	
					P5					BenzO
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.6	10.89	102.2	7.89	G4	13.0	10.64	100.8	7.93	
					G5	12.95	10.75	101.8	7.93	
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	12.85	10.82	102.2	7.93	R2					
					R3					
					LAB	11.8	9.35	86.0	7.79	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.75	10.88	102.3	7.90	A4					BenzO
					A5	12.9	10.71	101.2	7.72	
					MAMA	12.2	10.87	101.1	7.87	
*N2 psi/sup: ±5 ; <1/2					*CO2 psi/sup: 21 ; 600					

no change

reset chiller to 50°F

Date &amp; time: 5/20/20

Name of person collecting data: Neill

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.65	8.18	73.3	7.51	G1	11.55	8.53	78.1	7.59	
					G2	11.5	8.65	79.0	7.59	
					G3					MT
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.1	3.43	31.1	7.44	P1					MT
					P2	12.0	3.19	29.5	7.33	pH ↑ 0.01
					P3	12.05	3.27	30.2	7.33	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.95	8.11	73.2	7.54	A1					MT
					A2	11.7	8.52	78.2	7.63	
					A3					MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.1	2.86	25.9	7.35	R1					
					X1					
					X2					
					LTB	12.25	5.05	47.1	7.45	DO ↓ 0.18
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.65	9.05	81.2	7.52	P4	11.65	9.19	84.2	7.63	
					P5	11.8	8.96	82.4	7.64	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.65	8.17	73.4	7.52	G4	11.95	8.80	81.4	7.67	
					G5	11.95	8.71	80.6	7.65	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.95	8.24	74.8	7.54	R2					
					R3					
					LAB	12.0	9.14	84.8	7.69	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.7	8.17	73.4	7.50	A4	11.3	8.96	81.6	7.56	
					A5	11.6	9.15	84.0	7.62	-
					MAMA	10.55	8.09	72.3	7.50	

\*N2 psi/sup: 35; &lt;math&gt;\frac{1}{2}&lt;/math&gt;

\*CO2 psi/sup: 23; bDO

Date & time:		5/20/24 9:15 AM		Name of person collecting data:		Dylan				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.95	11.05	104.2	7.90	G1	13.05	11.01	104.3	7.93	1
					G2	13.05	11.11	105.2	7.92	
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.1	3.39	32.1	7.40	P1					2
					P2	13.1	3.13	29.6	7.34	PH ↑ 0.01
					P3	13.1	3.21	30.4	7.34	1
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.0	10.83	102.2	7.91	A1					1
					A2	13.05	10.66	101.6	7.92	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.05	2.72	25.8	7.45	R1					
					X1					
					X2					
					LTB	12.1	4.75	45.8	7.42	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.85	11.14	105.2	7.91	P4	13.1	11.02	104.5	7.94	1
					P5	13.1	10.79	102.3	7.93	4
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.85	11.05	104.4	7.91	G4	13.05	10.52	99.8	7.93	2
					G5	13.05	10.68	101.3	7.93	1
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.05	10.88	103.1	7.94	R2					
					R3					
					LAB	12.45	9.96	93.2	7.86	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.05	11.21	105.8	7.92	A4	13.1	10.78	102.2	7.93	4
					A5	13.05	10.88	102.3	7.93	2
					MAMA	12.75	11.17	105.2	7.91	
*N2 psi/sup:					*CO2 psi/sup: 21 ; 600					

Date & time: 5/19/24 2:45 pm Name of person collecting data: Dylin

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.95	7.79	70.2	7.52	G1	11.45	8.52	77.7	7.55	
					G2	11.3	8.52	77.5	7.55	
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.15	3.52	31.9	7.43	P1					MT
					P2	11.75	3.24	29.7	7.33	Both fish going hard
					P3	11.75	3.33	30.6	7.34	CO <sub>2</sub> valve ↓
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.95	7.92	71.4	7.52	A1					WT
					A2	11.65	8.57	78.5	7.59	
					A3					MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.9	2.68	24.1	7.30	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.2	8.93	80.9	7.54	LTB	12.4	4.58	42.8	7.37	
					P4	11.45	9.16	83.3	7.59	
					P5	11.5	8.74	81.7	7.58	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.15	8.19	74.0	7.54	G4	11.85	8.68	79.8	7.61	
					G5	11.6	8.68	79.5	7.60	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.2	8.45	76.7		R2					
				7.56	R3					
					LAB	12.05	9.27	85.7	7.67	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.95	7.97	71.7		A4	11.45	8.15	74.4	7.55	
				7.53	A5	11.4	9.16	83.7	7.59	
					MAMA	10.7	7.14	64.0	7.51	
*N2 psi/sup:	35	<1/2			*CO <sub>2</sub> psi/sup:	23	600			



Date & time:		5/18/24	6:30 PM	Name of person collecting data:		Dy167								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?				
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.55	11.82	113.4	8.11	G1	13.6	11.24	108.9	8.07					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.06	29.3	7.29	G2	13.65	11.69	112.4	8.09					
					G3					MT				
					P1					MT				
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.55	11.83	113.2	8.12	P2	13.6	3.12	29.9	7.35	PH 10.01				
					P3	13.55	3.20	30.6	7.36					
					A1					MT				
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.6	2.41	23.1	7.30	A2	13.65	11.53	110.6	8.07					
					A3	13.65	11.45	109.9	8.07					
					R1									
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.4	11.67	111.5	8.11	X1					Dob 0.01				
					X2									
					LTB	12.7	4.03	38.0	7.41					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.45	11.57	110.6	8.08	P4	13.55	11.51	110.2	8.07					
					P5	13.5	10.68	102.2	8.02					
					G4	13.5	11.24	107.7	8.07					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.45	11.39	109.1	8.08	G5	13.5	11.00	105.2	8.02					
					R2									
					R3									
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.5	11.88	113.8	8.11	LAB	12.7	9.82	92.2	7.91					
					A4	13.55	11.38	109.1	8.06					
					A5	13.5	11.20	107.3	8.04					
*N2 psi/sup:					MAMA	13.35	11.92	113.8	8.11					
*CO2 psi/sup:														
35 ; 1/2														

Date & time:		Name of person collecting data: Jasmin								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.7°C	9.30	85.5%	7.83	G1	12.0°C	9.88	91.4%	7.89	
						~	~	~	~	(SSS & larvae)
						~	~	~	~	MT
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.9°C	3.28	30.2%	7.50	P1	~	~	~	~	MT
					P2	12.2°C	3.16	29.3%	7.44	
					P3	~	~	~	~	total release
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	9.35	85.7%	7.80	A1	~	~	~	~	MT
					A2	11.8°C	9.88	91.2%	7.87	
					A3	11.8°C	9.67	89.3%	7.86	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.1°C	2.68	25.0%	7.55	R1	~	~	~	~	
					X1	~	~	~	~	
					X2	~	~	~	~	
					LTB	11.6°C	3.73	34.1%	7.51	DO 60.190 PH 60.01
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.5°C	9.76	89.3%	7.82	P4	12.0°C	10.00	97.2%	7.85	
					P5	12.0°C	9.91	91.5%	7.86	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.5°C	9.29	85.1%	7.80	G4	~	~	~	~	Part
					G5	12.0°C	9.78	90.5%	7.89	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.8°C	9.71	89.4%	7.87	R2	~	~	~	~	
					R3	~	~	~	~	
					LAB	11.4°C	10.25	93.7%	7.97	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.5°C	9.19	84.1%	7.83	A4	11.9°C	9.5	87.8%	7.87	
					A5	11.9°C	9.96	92.0%	7.91	
					MAMA	11.4°C	9.31	85.0%	7.75	
*N2 psi/sup:					*CO2 psi/sup:					

Date & Time:		Name of person collecting data: Madison								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.6	11.90	114.3	8.04	G1	13.7	11.51	110.6	8.01	
					G2	13.55	11.33	108.7	7.99	
					G3	Benz				→
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.5	3.06	29.4	7.35	P1	X	X	X	X	
					P2	13.45	3.24	31.0	7.30	↑.01 pH
					P3	13.50	3.51	33.0	7.36	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.6	11.91	114.2	8.04	A1	Benz				→
					A2	13.40	11.18	100.9	7.98	
					A3	13.45	11.05	105.7	7.96	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.65	2.50	24.0	7.08	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	13.6	11.76	113.1	8.07	LTB	12.65	4.35	40.9	7.43	gas turned down
					P4	13.4	11.09	100.0	7.97	
					P5	13.6	11.27	108.4	8.02	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.6	11.54	110.9	8.06	G4	13.3	10.58	100.9	7.91	
					G5	13.3	10.69	102.1	7.95	
					R2					
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	13.6	11.11	100.6	7.99	R3					
					LAB	13.1	9.51	90.2	7.79	
					A4	13.45	11.35	108.7	8.01	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.6	12.03	115.7	8.06	A5	13.3	10.97	104.9	7.96	
					MAMA	13.4	11.98	115.0	8.06	
					*CO2 psi/sup: 23 400					

\*N2 psi/sup:

Date & Time:		5/17/24 7 am		Name of person collecting data: Madison						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	11.2	9.15	83.1	7.81	G1	11.4	9.55	87.2	7.89	
					G2	11.45	9.58	87.8	7.87	
					G3					BenzO
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.35	3.13	28.5	7.42	P1					Mt
					P2	11.7	3.46	31.9	7.45	
					P3	x	x	x	x	small spurt
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	11.2	9.50	80.1	7.78	A1					BenzO
					A2	11.55	9.60	87.9	7.88	
					A3	11.55	9.44	86.4	7.84	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.4	2.55	28.2	7.48	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 8mg/L, 7.8-7.9 pH	11.1	9.22	83.7	7.81	LTB	11.5	4.18	38.3	7.56	1.01 PH ↓ 7.00
					P4	11.55	9.59	87.9	7.86	
					P5					BenzO
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	11.2	8.89	80.9	7.80	G4	11.6	9.21	84.5	7.93	
					G5	x	x	x	x	birth
<b>LH2</b> Larval Treatment 8mg/L, 7.8-7.9 pH	11.4	9.34	85.2	7.87	R2					
					R3					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	11.25	8.60	78.3	7.78	LAB	11.1	7.73	69.9	7.80	
					A4	11.55	9.04	82.7	7.83	
					A5	11.5	9.05	88.1	7.84	
					MAMA	11.1	8.39	76.1	7.81	
*N2 psi/sup:					*CO2 psi/sup:					

Date & Time:

5-16-2

Name of person collecting data: Quinn

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.8	11.19	105.6	8.02	G1	12.6	10.72	100.6	7.90	
					G2	12.5	10.73	100.6	7.90	
					G3	12.6	10.45	98.4	7.91	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.6	3.71	34.8	7.45	P1					
					P2	12.6	3.26	30.3	7.37	
					P3	12.1	3.48	32.3	7.37	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.6	11.08	104.4	8.03	A1	12.8	10.81	102.1	8.02	
					A2	12.6	10.66	100.0	7.88	
					A3	12.5	10.45	97.7	7.85	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.4	2.85	26.7	7.37	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.7	11.21	105.6	8.01	LTB	11.9	3.88	35.8	7.43	
					P4	12.4	10.54	98.5	7.85	
					P5	12.6	10.82	101.6	7.95	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.6	10.96	102.9	7.97	G4	12.3	9.62	89.6	7.76	
					G5	12.3	10.05	93.9	7.81	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.6	10.63	99.9	7.93	R2					
					R3					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.7	11.29	106.0	8.03	LAB	12.0	8.73	80.0	7.65	
					A4	12.5	10.53	98.6	7.87	
					A5	12.5	10.59	99.0	7.85	
*N2 psi/sup:	3/9 in	5in			MAMA	12.7	11.28	106.2	8.01	
					*CO2 psi/sup:	590	21	ps		

Date & time:		5-16-24		8:00 AM		Name of person collecting data:		Dawn			
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.8	8.58	77.4	7.74	G1	11.0	8.90	80.7	7.77		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.9	3.44	31.0	7.35	G2	11.0	8.86	80.2	7.76		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.8	8.61	77.6	7.74	G3	11.0	8.68	78.7	7.76		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.2	2.96	27.1	7.36	P1						
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.9	8.71	78.5	7.77	P2	11.2	3.35	30.5	7.40		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.9	8.28	74.7	7.73	P3	11.2	3.29	30.0	7.40		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.0	8.57	77.6	7.76	A1	10.9	8.70	76.5	7.81		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.9	8.10	73.8	7.72	A2	11.0	8.92	80.7	7.80		
					A3	11.0	8.92	80.7	7.77		
					R1						
					X1						
					X2						
					LTB	11.0	3.80	34.5	7.43	↓ pH	
					P4	11.0	9.16	82.9	7.79		
					P5	11.0	9.12	82.3	7.30		
					G4	11.2	8.55	77.7	7.89		
					G5	11.2	8.81	80.1	7.87		
					R2						
					R3						
					LAB	11.1	8.37	75.2	7.81		
					A4	11.0	8.52	76.9	7.81		
					A5	11.1	9.03	81.9	7.82		
					MAMA	13.8	7.92	7.1	7.81		

\*N2 psi/sup: 3/4 Full

\*CO2 psi/sup: 590 psi 21 psi

Date &amp; time: 5/15/24

4:30 PM

Name of person collecting data:

Dylan

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.85	11.47	108.5	8.05	G1	12.65	11.09	104.3	7.94	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.6	3.27	30.8	7.46	G2	12.65	11.16	104.8	7.95	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.85	11.49	108.9	8.05	G3	12.35	10.42	97.6	7.85	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.2	2.86	26.7	7.38	P1	Wavy line				
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.8	11.53	108.9	8.03	P2	12.1	3.14	29.2	7.38	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.7	11.26	106.0	8.00	P3	12.1	3.27	30.5	7.37	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.7	10.95	103.2	7.96	A1	12.75	11.13	105.0	8.01	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.8	11.57	109.5	8.05	A2	12.75	11.04	104.1	7.99	Just raised refilled from N2
*N2 psi/sup: 35; >1/2					A3	12.4	10.73	100.5	7.89	
					R1					
					X1					
					X2					
					LTB	12.0	3.74	34.6	7.42	
					P4	12.9	11.31	107.2	8.03	
					P5	12.65	10.94	102.9	7.93	
					G4	12.45	10.14	74.9	7.82	
					G5	12.55	10.67	100.2	7.87	
					R2					
					R3					
					LAB	12.05	9.99	92.7	7.70	
					A4	12.65	11.11	104.6	7.97	
					A5	12.6	10.87	102.3	7.90	
					MAMA	12.7	11.76	110.8	8.04	Bubbles off

\*CO2 psi/sup: 21; 600

Took chiller down to set point of 52°F (was originally @ 54°F)

Date & time: 5/15/24 9 AM		Name of person collecting data: Dylan					Adjusted flow or set points?		
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.75	9.24	83.3	7.65	G1	10.95	9.44	85.4	7.69
					G2	10.95	9.48	85.7	7.68
					G3	10.95	9.12	82.6	7.59
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.8	3.78	34.0	7.44	P1				~ mt
					P2	11.1	3.27	29.7	7.40
					P3	11.15	3.09	28.1	7.38
					A1	10.85	9.42	85.0	7.68
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.75	9.23	83.6	7.65	A2				Part
					A3	10.95	1.50	85.8	7.69
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.2	2.74	25.0	7.46	R1				DO↓ 0.1%
					X1				
					X2				
					LTB	10.7	3.84	34.5	7.44
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.75	9.72	87.4	7.67	P4				~ P. +
					P5	10.95	1.57	86.6	7.71
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.75	9.19	82.7	7.59	G4	11.05	9.02	81.9	7.72
					G5	11.05	9.30	84.5	7.72
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.9	9.33	84.3	7.71	R2				
					R3				
					LAB	10.85	9.27	83.6	7.72
					A4	10.75	9.17	82.9	7.70
					A5	10.95	9.53	87.2	7.71
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.8	9.13	82.2	7.67	MAMA	10.75	9.04	81.4	7.66
*N2 psi/sup:	35	2/3			*CO2 psi/sup: 21, 575				

Date &amp; time: 5/14/24

2:45 PM

Name of person collecting data:

Dylan

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.05	11.36	105.9	7.86	G1	11.55	10.80	99.4	7.67	
					G2	11.5	10.82	99.3	7.69	
					G3	11.4	10.15	92.9	7.66	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.8	3.45	31.1	7.44	P1	wave	wave	wave	wave	MT
					P2	10.75	3.23	29.1	7.37	DO ↓ 0.1%
					P3	10.7	3.28	29.5	7.37	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.3	11.47	107.3	7.91	A1	11.75	10.96	101.2	7.76	
					A2	11.45	10.72	98.2	7.66	
					A3	11.45	10.65	97.4	7.64	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.95	2.84	25.8	7.39	R1	wave	wave	wave	wave	DO ↓ 0.1%
					X1	wave	wave	wave	wave	
					X2	wave	wave	wave	wave	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.55	11.20	102.6	7.77	LTB	11.1	3.89	35.3	7.40	
					P4	11.3	10.68	97.6	7.64	
					P5	11.35	10.67	97.6	7.65	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.25	10.41	94.4	7.65	G4	11.3	9.88	90.1	7.56	
					G5	11.45	10.35	94.8	7.61	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.5	10.48	96.1	7.66	R2	wave	wave	wave	wave	
					R3	wave	wave	wave	wave	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.1	11.19	104.0	7.82	LAB	10.95	9.99	90.6	7.54	
					A4	11.3	10.60	97.2	7.65	
					A5	11.45	10.67	94.7	7.60	
*N2 psi/sup:	35		213		MAMA	11.6	10.68	98.3	7.71	
					*CO2 psi/sup:	23	600			

Date & time:		5/14/24 9AM		Name of person collecting data:		Dylan					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.25	8.68	77.1	7.61	G1	10.45	9.37	83.9	7.64		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.4	3.39	30.2	7.49	G2	10.45	9.37	83.7	7.64		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.25	8.72	77.4	7.63	G3	10.6	9.24	82.9	7.04		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.95	2.86	25.9	7.51	P1						M7
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.3	9.63	85.9	7.65	P2	10.85	3.10	28.0	7.44		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.3	9.36	83.5	7.65	P3	10.8	3.21	28.9	7.44		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.65	10.32	92.8	7.75	A1	10.4	8.95	80.0	7.61		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.3	8.90	79.3	7.65	A2	10.4	9.21	82.4	7.63		
					A3	10.5	9.31	83.3	7.63		
					R1						
					X1						
					X2						
					LTB	10.5	3.86	311.5	7.48		
					P4	10.55	10.01	89.6	7.71		
					P5	10.75	10.17	91.3	7.68		
					G4	10.8	10.00	90.2	7.66		
					G5	10.7	10.23	92.1	7.70		
					R2						
					R3						
					LAB	10.45	11.02	98.7	7.74		
					A4	10.6	9.53	85.4	7.64		
					A5	10.6	10.15	91.2	7.71		
					MAMA	10.2	7.90	70.1	7.60		
<b>*N2 psi/sup:</b>		35;	2/3		<b>*CO2 psi/sup:</b> 21;						575

DO↓ 0.1%

pH↓ 0.01

5th and pipe

put back on

for uniformity

Date &amp; time: 5/13/04 6:30 pm

Name of person collecting data: Qam

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.2	11.13	101.4	7.84	G1	11.7	11.05	101.5	7.93	
					G2	11.6	11.01	101.3	7.96	
					G3	11.7	10.56	97.1	7.96	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.5	3.42	31.6	7.36	P1					
					P2	12.1	3.36	31.1	7.51	pH ↓
					P3	12.0	3.27	30.3	7.51	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.1	11.16	101.4	7.77	A1	11.8	10.84	99.3	7.90	
					A2	11.6	10.93	100.2	7.88	
					A3	11.6	10.94	100.4	7.88	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.4	2.92	27.2	7.46	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.1	11.21	101.6	7.82	LTB	12.0	3.69	34.2	7.47	pH ↓ DO ↓
					P4	11.6	15.98	100.6	7.87	
					P5	11.6	10.99	100.8	7.95	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.2	10.96	99.5	7.83	G4	11.7	10.52	96.8	9.98	
					G5	11.5	10.88	100.0	7.94	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.5	11.24	103.0	7.92	R2					
					R3					
					LAB	11.3	10.31	94.4	7.75	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.2	11.19	101.7	7.85	A4	11.5	11.04	101.2	7.88	
					A5	11.5	11.09	101.6	7.94	
					MAMA	11.1	11.02	99.8	7.75	
*N2 psi/sup:	3/4 full	- 35 psi			*CO2 psi/sup:	600	/ 22 psi			

Date & time:		5/13/24 9:30 AM		Name of person collecting data:		Dylan				Adjusted flow or set points?	
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH		
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.7	6.78	74.0	7.72	G1	10.0	7.05	77.3	7.73		
					G2	10.0	7.04	77.4	7.75		
					G3	10.1	6.81	75.0	7.74		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	9.8	3.13	34.2	7.62	P1					MT	
					P2	10.2	3.12	34.4	7.58		
					P3	10.2	3.13	34.6	7.59		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	9.7	6.74	73.6	7.72	A1	9.9	6.95	76.2	7.73		
					A2	10.0	7.05	77.4	7.74		
					A3	10.0	7.10	78.1	7.74		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.3	2.82	31.2	7.62	R1						
					X1						
					X2						
					LTB	9.8	3.32	36.7	7.64		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	9.8	7.83	85.5	7.74	P4	10.0	7.81	85.8	7.76		
					P5	10.0	7.88	86.8	7.76		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.8	7.43	81.4	7.74	G4	10.2	7.45	82.2	7.79		
					G5	10.1	7.51	82.7	7.79		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.1	8.07	89.0	7.86	R2						
					R3						
					LAB	10.1	8.40	92.7	7.84		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	9.7	7.07	77.3	7.73	A4	9.9	7.34	80.6	7.75		
					A5	10.0	7.49	80.2	7.77		
					MAMA	9.6	6.19	67.5	7.72		
<b>*N2 psi/sup:</b>		35	3/4		<b>*CO2 psi/sup:</b>		21	575			

Using YS16 Noah's Hatch

Date & Time: 5/2/24 2:22pm

Name of person collecting data: Mahlon

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.5	10.57	90.9	7.81	G1	11.4	10.47	95.7	7.72	
					G2	11.4	10.53	96.4	7.73	
					G3	11.4	9.95	90.8	7.67	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.6	3.33	30.6	7.45	P1					M+
					P2	11.4	3.43	31.5	7.38	Dab 0.1%
					P3	11.4	3.44	31.6	7.38	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.5	10.62	97.4	7.81	A1	11.6	10.87	99.8	7.79	
					A2	11.6	10.59	97.0	7.74	
					A3	11.6	10.59	97.0	7.74	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.7	2.78	25.6	7.42	R1					
					X1					
					X2					
					LTB	11.1	3.68	33.4	7.41	Dab 0.1%
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.4	10.14	92.5	7.75	P4	11.3	10.50	95.8	7.69	
					P5	11.2	10.58	96.7	7.71	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.5	10.33	94.6	7.80	G4	11.4	9.86	89.9	7.67	
					G5	11.4	10.24	93.7	7.72	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.6	10.60	97.2	7.80	R2					
					R3					
					LAB	10.9	9.73	87.7	7.56	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	10.36	94.9	7.80	A4	11.0	10.56	97.1	7.77	
					A5	11.0	10.40	95.4	7.73	
					MAMA	11.3	10.59	96.8	7.80	

Date & Time:		9:30 5/12/23		Name of person collecting data: MacLean						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.95	9.41	82.8	7.64	G1	10.1	9.63	85.3	7.62	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.0	3.24	29.4	7.45	G2	10.1	9.63	85.4	7.68	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	9.95	9.31	82.0	7.55	G3	10.25	9.28	82.5	7.67	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.7	2.97	26.6	7.48	P1	x	x	x	x	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.25	9.72	86.4	7.56	P2	10.85	3.38	30.5	7.43	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.1	9.25	81.7	7.53	P3	10.85	3.40	30.6	7.44	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.1	9.62	85.0	7.55	A1	10.05	9.47	83.7	7.65	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.0	9.03	79.6	7.55	A2	10.05	9.53	84.5	7.62	
<b>*N2 psi/sup:</b> 23/4					A3	10.05	9.49	84.3	7.61	
					R1	x	x	x	x	
					X1	x	x	x	x	
					X2	x	x	x	x	
					LTB	10.6	3.64	32.4	7.47	
					P4	10.25	9.87	87.8	7.68	
					P5	10.35	9.93	88.5	7.67	
					G4	10.35	9.13	81.2	7.61	
					G5	10.3	9.33	83.0	7.63	
					R2	x	x	x	x	
					R3	x	x	x	x	
					LAB	10.15	9.96	88.3	7.62	
					A4	10.25	9.15	81.3	7.59	
					A5	10.25	9.65	85.8	7.59	
					MAMA	9.90	8.33	73.2	7.55	
<b>*CO2 psi/sup:</b> 24/600										

Date &amp; time: 5/11/24 2:00 pm

Name of person collecting data: Lorenzo

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.2	11.40	106.0	7.88	G1	12.3	11.22	104.8	7.87	
					G2	12.2	11.21	104.6	7.87	
					G3	12.2	10.55	98.3	7.82	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.2	3.57	33.4	7.40	P1					
					P2	12.1	3.20	29.5	7.33	
					P3	12.1	3.24	30.1	7.33	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.0	11.38	105.7	7.89	A1					
					A2	12.2	10.92	101.8	7.84	
					A3	12.2	11.02	102.5	7.84	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.1	2.51	23.3	7.38	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.3	9.66	87.4	7.69	LTB	11.3	3.62	33.0	7.41	
					P4	12.2	10.82	100.7	7.82	
					P5	12.2	10.91	101.5	7.83	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.1	11.31	104.9	7.89	G4	12.2	10.42	97.0	7.81	
					G5	12.2	10.95	102.3	7.87	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.1	11.34	105.5	7.89	R2					
					R3					
					LAB	11.2	9.52	87.1	7.57	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.1	11.26	104.7	7.89	A4	12.2	11.13	103.8	7.86	
					A5	12.2	10.79	100.6	7.89	
					MAMA	11.8	11.32	104.6	7.88	
*N2 psi/sup:					*CO2 psi/sup: 20 psi / 600 psi					

Date & Time:		5/11/24 9:10 am		Name of person collecting data:		Jasmin					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.9°C	8.69	76.4%	7.49	G1 G2 G3	10.01	9.36	82.9%	7.49	MT	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.2°C	3.43	30.4%	7.23		10.01	9.25	81.8%	7.49		
						10.01	9.03	80.1%	7.48		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	9.9°C	8.81	77.5%	7.49	A1 A2 A3	10.01	9.19	81.3%	7.48	MT	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.2°C	2.95	26.3%	7.32		10.01	9.22	81.7%	7.49		
						R1				MT	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.0°C	9.62	85.0%	7.50	LTB P4 P5	10.1°C	3.53	31.3%	7.43		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.9°C	8.51	75.0%	7.48		10.2°C	8.50	75.5%	7.49		
						10.2°C	8.70	77.2%	7.49		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	9.9°C	9.27	81.7%	7.50	G4 G5 R2 R3	10.2°C	8.55	84.6%	7.52	MT	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	9.9°C	8.48	74.7%	7.49		10.1°C	8.87	78.6%	7.49		
						10.1°C	8.86	78.7%	7.49		
					MAMA	9.8°C	8.14	71.6%	7.48	MT	
*N2 psi/sup: < 3/4						*CO2 psi/sup: 22 / 550					

Date & time: 2:20pm		5/10/24		Name of person collecting data: Callyn						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.15	11.14	103.5%	7.89	G1	12.4	11.38	106%	7.90	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.35	3.09	28.8%	7.30	G2	12.4	11.34	106%	7.89	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.05	11.07	102.6%	7.86	G3	12.4	10.87	101.7%	7.86	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.4	2.72	25.4%	7.40	P1					MT
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.2	11.22	104.4%	7.88	P2	12.5	5.35	50.2%	7.33	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.15	11.29	105%	7.90	P3	12.5	5.09	47.8%	7.33	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.2	11.16	103.8%	7.87	A1	12.4	11.21	104.8%	7.90	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.3	11.37	105.9%	7.91	A2	12.4	11.13	104.0%	7.89	
*N2 psi/sup:	35	3/4			A3	12.4	11.11	103.9%	7.88	
					R1					
					X1					
					X2					
					LTB	12.65	4.67	44.0%	7.43	
					P4	12.3	10.86	101.3%	7.82	
					P5	12.4	10.95	102.2%	7.84	
					G4	12.3	10.69	100.1%	7.93	
					G5	12.45	11.11	103.9%	7.83	
					R2					
					R3					
					LAB					
					A4					
					A5	12.3	10.97	102.5%	7.87	
					MAMA	11.9	10.72	98.9	7.85	
					*CO2 psi/sup:	24	600			

Date & time:		5/10/24		Name of person collecting data: Karla						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	9.85	8.88	78.2	7.56	G1	10.1	8.97	79.5	7.58	
PH1 Pre-Fert 3mg/L, 7.4 pH	9.85	9.40	82.8	7.40	G2	10.15	8.91	79.1	7.57	
AH1 Ambient 8mg/L, 7.8- 7.9 pH	9.75	9.04	79.5	7.57	G3	10.2	8.82	78.5	7.57	
LH1 Larval Treatment 3mg/L, 7.4 pH	10.0	7.23	64.0	7.47	P1					
PH2 Pre-Fert 3mg/L, 7.4 pH	10.1	9.10	80.6	7.57	P2	10.45	8.19	73.2	7.43	
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	9.90	8.41	74.2	7.55	P3	10.45	8.08	72.3	7.42	
LH2 Larval Treatment 3mg/L, 7.4 pH	9.95	8.83	77.9	7.57	A1					
AH2 Ambient 8mg/L, 7.8- 7.9 pH	9.9	8.40	74.3	7.56	A2	10.2	9.09	81.0	7.57	
*N2 psi/sup: 300psi 2 Full					A3	10.3	9.10	81.0	7.56	
*CO2 psi/sup: 20/500 psi					R1					
					X1					
					X2					
					LTB	10.55	7.49	66.8	7.55	
					P4	10.15	9.22	81.9	7.60	
					P5	10.35	9.25	82.4	7.59	
					G4	10.25	8.07	71.8	7.56	
					G5	10.35	8.20	73.2	7.56	
					R2					
					R3					
					LAB	10.6	9.07	81.2	7.59	
					A4					
					A5	10.25	8.26	73.5	7.57	
					MAMA	10.55	8.77	78.6	7.67	

Date & time: 5-9-24 2:00 PM Name of person collecting data: Gvrm

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.9	11.31	104.9	7.83	G1	12.1	11.22	104.5	7.82	
					G2	12.2	11.13	103.6	7.82	
					G3	12.2	10.78	100.4	7.79	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.6	3.22	29.9	7.44	P1					
					P2	12.1	3.49	32.4	7.35	
					P3	12.1	3.52	32.7	7.35	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.9	11.37	105.2	7.83	A1					Babies
					A2	12.1	10.92	101.6	7.80	
					A3	12.2	11.01	102.6	7.81	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.0	3.00	28.0	7.32	R1					
					X1					
					X2					
					LTB	11.9	3.51	32.5	7.37	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.9	11.31	104.5	7.81	P4	12.1	10.87	100.9	7.77	
					P5	12.1	10.90	101.3	7.79	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.9	11.37	105.1	7.84	G4	12.1	10.56	98.1	7.76	
					G5	12.1	10.95	101.8	7.80	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.0	11.42	105.7	7.84	R2					
					R3					
					LAB	12.2	10.38	96.7	7.73	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.9	11.43	105.9	7.84	A4	12.0	11.14	103.5	7.82	
					A5	12.0	11.02	102.4	7.79	
					MAMA	11.8	11.36	105.1	7.83	
*N2 psi/sup: Fm					*CO2 psi/sup: 600 / 21 ps					

DO During water / pump house cleaning

Date	Time:	5-9-24	9 AM	Name of person collecting data: Quinn						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.3	9.50	86.9	7.53	G1	10.1	9.03	80.0	7.55	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2	10.0	8.89	78.8	7.55	
					G3	10.0	8.47	75.4	7.55	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	9.8	10.08	88.8	7.54	P1	<del>10.1</del>	<del>9.03</del>	<del>80.0</del>	<del>7.55</del>	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P2	10.0	3.48	30.8	7.45	
					P3	10.0	3.49	31.0	7.45	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	9.8	9.89	87.2	7.53	A1	<del>10.1</del>	<del>9.03</del>	<del>80.0</del>	<del>7.55</del>	Basics
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					A2	10.0	8.92	79.0	7.56	
					A3	10.1	8.84	78.7	7.56	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	9.7	9.95	87.5	7.53	R1	<del>10.1</del>	<del>9.03</del>	<del>80.0</del>	<del>7.55</del>	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					X1	<del>10.0</del>	<del>8.92</del>	<del>79.0</del>	<del>7.56</del>	
					X2	<del>10.1</del>	<del>8.84</del>	<del>78.7</del>	<del>7.56</del>	
					LTB	10.0	3.53	31.2	7.46	
					P4	10.0	8.93	79.3	7.57	
					P5	10.1	8.87	78.9	7.57	
					G4	9.9	8.01	71.0	7.54	
					G5	10.0	8.22	73.0	7.53	
					R2	<del>10.1</del>	<del>9.03</del>	<del>80.0</del>	<del>7.55</del>	
					R3	<del>10.0</del>	<del>8.92</del>	<del>79.0</del>	<del>7.56</del>	
					LAB	10.3	3.15	72.8	7.59	
					A4	10.0	8.63	76.4	7.55	
					A5	10.0	8.37	74.2	7.54	
					MAMA	9.5	9.96	87.3	7.52	

\*N2 psi/sup: 7psi

\*CO2 psi/sup: 600 21 psi

Date & time:		Name of person collecting data: Dm								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.7	9.94	91.6	7.80	G1	11.9	9.98	92.5	7.80	
					G2	11.9	9.94	92.6	7.80	
					G3	11.9	9.62	89.4	7.78	Flow Δ
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.9	3.56	33.5	7.49	P1	12.3	3.30	30.8	7.45	DO ↓
					P2	12.3	3.30	30.9	7.45	pH ↓
					P3	12.3	3.30	30.9	7.45	pH ↓
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.7	9.96	91.9	7.78	A1	12.0	9.78	90.8	7.80	
					A2	12.0	9.92	91.9	7.81	
					A3	12.1	9.97	92.6	7.81	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.2	2.82	26.2	7.45	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.9	9.80	90.7	7.80	LTB	12.3	3.57	33.3	7.46	DO ↓ pH ↓
					P4	12.1	9.88	91.8	7.79	
					P5	12.1	9.89	92.0	7.80	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.7	9.62	88.7	7.80	G4	12.0	9.34	86.8	7.79	
					G5	12.1	9.48	88.2	7.80	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					R2					
	11.7	9.92	91.4	7.81	R3					
					LAB	12.3	8.87	82.9	7.75	
					A4	12.0	9.97	92.6	7.82	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	9.69	89.2	7.80	A5	12.0	9.62	89.2	7.81	
					MAMA	11.4	9.57	87.5	7.77	

\*N2 psi/sup: 7 Full

\*CO2 psi/sup: 22 / 600 psi

replaced @ 11 AM

Date	Time:	5-8-24	9 AM	Name of person collecting data: LORENZO							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.8	8.82	77.9	7.59	G1	9.8	8.16	71.8	7.57		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.8	3.59	32.5		G2	9.8	8.08	71.2	7.57		
					G3	10.1	7.57	67.7	7.56		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	9.8	8.82	77.7	7.59	P1						
					P2	10.2	3.54	31.3	7.41	* changing N100g trunk	
					P3	10.2	3.61	32.1	7.41		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.8	2.72	24.6	7.44	A1	9.7	8.49	74.7	7.56		
					A2	9.8	8.22	72.3	7.57		
					A3	9.8	8.41	74.1	7.57		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	9.8	8.44	74.6	7.58	R1						
					X1						
					X2						
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.3	9.20	82.3	7.68	LTB	9.5	3.65	32.5	7.46		
					P4	10.2	8.77	78.1	7.61		
					P5	10.3	8.79	78.3	7.61		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.3	9.07	80.8	7.65	G4	9.8	7.12	62.8	7.55		
					G5	9.8	7.49	66.2	7.56		
					R2						
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.3	9.10	81.4	7.67	R3						
					LAB	9.6	8.10	71.2	7.58		
					A4	9.8	7.57	66.2	7.56		
					A5	9.8	7.50	66.2	7.56		
					MAMA	11.4	11.22	102.8	7.87		
*N2 psi/sup: < 1/4 full					*CO2 psi/sup: 500 ps 21 psi						

Date & time:		5/7/24		2:05 pm		Name of person collecting data: Jasmin				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0°C	9.29	83.7%	7.68	G1	11.4°C	9.67	88.3%	7.70	
					G2	11.4°C	9.66	88.1%	7.68	
					G3	11.4°C	9.34	85.2%	7.67	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.3°C	3.33	30.3%	7.44	P1					MT
					P2	11.4°C	3.19	29.1%	7.39	
					P3	11.5°C	3.18	29.0%	7.38	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.9°C	9.42	84.8%	7.68	A1	11.3°C	9.50	86.4%	7.68	
					A2	11.4°C	9.74	88.8%	7.68	
					A3					Part
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.4°C	2.61	23.8%	7.31	R1					
					X1					Dab 0.1%
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.4°C	9.80	89.4%	7.69	LTB	11.6°C	3.50	32.2%	7.38	
					P4	11.4°C	9.76	88.9%	7.68	
					P5	11.4°C	9.84	89.8%	7.69	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.2°C	9.25	83.8%	7.69	G4	11.4°C	9.01	82.2%	7.68	
					G5	11.4°C	9.20	83.8%	7.67	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.2°C	9.75	88.4%		R2					
					R3					
					LAB	11.4°C	9.64	87.9%	7.68	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.2°C	9.22	83.4%	7.71	A4					Part
					A5	11.3°C	9.45	86.0%	7.69	
					MAMA	10.7°C	8.36	75.0%	7.67	

\*N2 psi/sup: >1/4

\*CO2 psi/sup: 600 psi / 23 psi

Date/time:		5/7/24 8:30		Name of person collecting data: Dylan						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.8	8.51	74.6	7.58	G1	9.8	8.10	70.9	7.57	
					G2	9.8	8.07	70.6	7.57	
					G3	9.8	7.76	68.1	7.56	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	9.5	3.55	30.8	7.35	P1					MT
					P2	9.6	3.39	29.6	7.40	DO↓0.1%
					P3					embryos (dead)
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	9.8	8.57	75.2	7.57	A1	9.8	8.14	71.4	7.56	
					A2	9.8	8.20	71.9	7.56	
					A3					Part
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	9.6	3.07	26.9	7.40	R1					
					X1					
					X2					
					LTB	9.25	3.69	32.0	7.45	DO↓0.1%
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	9.55	8.25	72.0	7.59	P4	9.8	8.31	72.8	7.59	
					P5					dead
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.6	7.13	62.2	7.57	G4					adult embryo
					G5	9.75	6.96	61.0	7.56	adult embryo
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	9.6	7.97	69.6	7.57	R2					
					R3					
					LAB	9.3	8.08	70.0	7.59	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	9.6	7.20	62.9	7.56	A4					Live
					A5	9.65	7.16	62.6	7.56	
					MAMA	10.05	8.51	75.0	7.62	
*N2 psi/sup: 35; >14					*CO2 psi/sup: 22; 550					

Date & time:		Name of person collecting data: Neil & Dylan								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.2	8.67	76.5	7.59	G1	10.5	8.61	76.7	7.60	
					G2	10.55	8.49	75.6	7.60	Part over limit today
					G3	10.65	8.34	74.5	7.59	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.25	3.63	32.2	7.44	P1					MT
					P2	10.85	3.30	29.6	7.40	DO ↓ 0.1%
					P3	10.9	3.29	29.5	7.37	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.2	8.81	77.8	7.59	A1	10.5	8.56	76.2	7.59	
					A2	10.6	8.68	77.4	7.59	
					A3					Live
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.65	2.60	23.2	7.40	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.55	9.04	80.0	7.61	LTB	11.4	3.65	33.2	7.41	DO ↓ 0.1%
					P4	10.9	9.05	81.1	7.62	
					P5					Live
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.3	8.30	73.5	7.58	G4	10.55	7.93	70.6	7.58	
					G5	10.65	7.94	70.7	7.59	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.3	8.66	76.7	7.58	R2					
					R3					
					LAB	10.9	8.75	78.7	7.61	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.3	8.12	71.8	7.58	A4					Live
					A5	10.7	8.89	79.5	7.57	
					MAMA	10.25	8.12	71.7	7.58	
*N2 psi/sup: 35 ; <1/2					*CO2 psi/sup: 23, 600					

Date & time:		9:30		Name of person collecting data:		Dylan					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.05	9.55	85.9	7.68	G1	11.15	9.66	87.0	7.68		
					G2						Part
					G3	11.15	9.35	84.4	7.65		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.1	3.49	31.4	7.34	P1						
					P2	10.95	3.47	31.1	7.39		
					P3	10.95	3.42	30.7	7.39	D0↓ 0.1%	*
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.0	9.63	86.6	7.68	A1	11.15	9.59	86.6	7.68		
					A2	11.15	9.68	87.5	7.68		
					A3					Live	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.2	2.82	25.4	7.33	R1						
					X1						
					X2						
					LTB	10.2	3.65	32.2	7.42	D0↓ 0.1%	*
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.9	1.64	86.6	7.67	P4	11.05	9.54	85.8	7.68		
					P5					Live	*
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.95	9.20	82.8	7.68	G4	11.2	9.08	81.8	7.66		*
					G5	11.1	9.02	81.3	7.66		*
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.1	9.62	86.7	7.68	R2						
					R3						
					LAB	10.95	9.09	81.8	7.64		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.1	9.12	82.2	7.69	A4					Live	*
					A5	11.0	9.37	84.3	7.66		
					MAMA	11.0	8.98	80.7	7.67		
*N2 psi/sup:						*CO2 psi/sup: 20; 550					

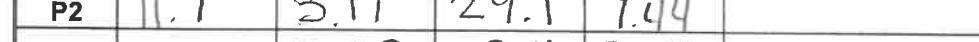
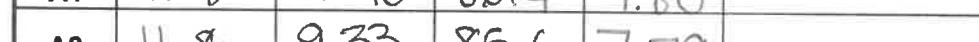
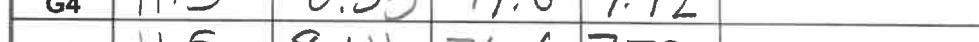
Date &amp; time: 5/5/24 3:30 PM

Name of person collecting data: Dylan

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.2	8.08	71.5	7.55	G1	10.4	8.12	72.3	7.55	
					G2	10.4	8.10	72.1	7.55	
					G3	10.5	8.11	72.3	7.55	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.2	3.42	30.4	7.33	P1					MT
					P2	10.55	3.18	28.3	7.36	pH valve ↓
					P3	10.65	3.14	28.0	7.35	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.2	8.21	72.8	7.55	A1	10.4	8.34	74.2	7.55	
					A2	10.45	8.20	73.0	7.55	
					A3	10.45	8.23	73.3	7.55	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.15	2.78	24.7	7.41	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.15	8.20	72.6	7.57	LTB	10.7	3.68	33.0	7.39	DO b. 1%
					P4	10.5	8.50	75.7	7.57	
					P5	10.65	8.51	76.0	7.60	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.15	7.15	63.1	7.56	G4	10.55	7.17	64.0	7.56	
					G5	10.55	7.08	63.0	7.56	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.2	8.06	71.4	7.56	R2					
					R3					
					LAB	10.7	8.42	75.6	7.58	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.2	7.21	63.8	7.56	A4	10.65	7.60	67.8	7.58	
					A5	10.75	8.85	71.2	7.59	
					MAMA	10.0	7.23	63.8	7.55	

\*N2 psi/sup: 35; &gt;1/2

\*CO2 psi/sup: 21, 600

Date & time: 5-5-24 9:14am					Name of person collecting data: Dylan, Dailyn, & Nicolle					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0	8.81	79.5	7.67	<b>G1</b> 	11.7	9.31	79.2	7.76	
						<b>G2</b> 				Part + nitridation
						<b>G3</b> 	9.27	84.9	7.76	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.1	3.48	31.5	7.50	<b>P1</b> 					MT
						<b>P2</b> 	3.17	29.1	7.44	
						<b>P3</b> 	3.09	28.4	7.44	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.1	8.76	79.1	7.67	<b>A1</b> 	11.8	9.40	86.4	7.80	
						<b>A2</b> 	9.33	85.6	7.79	
						<b>A3</b> 	9.36	86.0	7.78	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.5	2.82	25.9	7.36	<b>R1</b> 					
						<b>X1</b> 				
						<b>X2</b> 				
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH		8.28	74.9	7.69	<b>LTB</b> 	10.7	4.00	35.7	7.49	DO ↓ 0.3% PH ↓ 0.01
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.2	8.28	74.9	7.69		<b>P4</b> 				
						<b>P5</b> 				
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.5	9.03	82.2	7.72	<b>G4</b> 	11.5	8.53	77.6	7.72	
						<b>G5</b> 	8.41	76.6	7.72	
						<b>R2</b> 				
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH		8.16	73.2	8.42	<b>R3</b> 	10.8	8.41	75.6	7.68	
						<b>LAB</b> 				
						<b>A4</b> 				
					<b>A5</b> 					MT
					<b>MAMA</b> 	10.9	8.16	73.2	8.42	
*N2 psi/sup:					*CO2 psi/sup:					

Date &amp; Time: 5/4/24 1:45 pm

Name of person collecting data: Lorenzo

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.8	10.23	94.2	7.88	G1	10.2	8.71	77.2	7.67	
					G2	10.2	8.56	76.5	7.66	
					G3	10.3	8.76	78.4	7.67	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.3	3.44	31.4	7.45	P1	12.22	2.12	2.22	2.22	
					P2	10.6	3.98	35.9	7.51	
					P3	10.6	3.69	33.3	7.50	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.3	8.91	79.3	7.70	A1	10.3	9.07	81.2	7.69	
					A2	10.4	8.80	78.9	7.69	
					A3	10.4	8.65	77.5	7.67	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.3	2.75	25.2	7.55	R1					
					X1					
					X2					
					LTB	9.9	3.74	33.1	7.56	pH + 0.01, DO ↓ 1%
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.3	8.35	74.8	7.63	P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.5	9.59	88.1	7.81	G4	10.4	7.67	68.8	7.68	
					G5	10.3	7.38	66.0	7.65	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.6	8.73	78.6	7.66	R2					
					R3					
					LAB	10.1	8.19	72.8	7.70	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.7	8.52	76.8	7.73	A4					
					A5					
					MAMA	12.2	10.03	93.6	7.88	

\*N2 psi/sup:

\*CO2 psi/sup: 20 psi, 1550 ps

Date & Time: 5/4/24 9:45 am					Name of person collecting data: Sam + Dywan					
Header Tank	°C Temp	DO (mg/L)	DO %	pH	Adult Tank	°C Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.8	8.64	78.0	7.70	G1 G2 G3	11.2	8.77	79.9	7.74	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.0	<del>7.11</del> 3.51	31.8	7.47		11.2	8.67	79.1	7.74	
						11.2	8.71	79.4	7.76	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	<del>10.7</del> 10.7	<del>8.26</del> 8.26	<del>74.5</del> 74.5	<del>7.67</del> 7.67	P1 P2 P3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.2	<del>3.14</del> 3.14	<del>28.7</del> 28.7	<del>7.53</del> 7.53		10.8	8.65	78.4	7.81	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	<del>10.7</del> 10.7	<del>8.67</del> 8.67	<del>78.2</del> 78.2	<del>7.73</del> 7.73		11.1	8.64	78.6	7.74	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.6	7.87	70.8	7.71	A1 A2 A3	11.2	8.62	78.5	7.69	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	<del>10.7</del> 10.7	<del>7.83</del> 7.83	<del>70.4</del> 70.4	<del>7.71</del> 7.71		R1				
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	<del>10.8</del> 10.8	<del>8.20</del> 8.20	<del>74.3</del> 74.3	<del>7.73</del> 7.73		X1				
					LTB P4 P5	X2				
						LTB	10.8	3.62	32.8	7.50
						P4				
					G4 G5	P5				
						11.0	7.81	71.1	7.72	
						10.9	7.80	70.9	7.72	
					R2 R3 LAB	R2				
						R3				
						LAB	10.8	8.04	73.2	7.74
					A4 A5 MAMA	A4				
						A5				
						MAMA	10.6	7.58	68.1	7.71
*N2 psi/sup: <del>3/4</del>					*CO2 psi/sup: <del>21/550</del>					

bacterial/fungal infection

Date & time: 1:37 pm 05/03/2024 Name of person collecting data: M. Tadg C. & Lynn

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.1 °C	7.79	69.1	7.53	G1					
					G2	10.4 °C	7.94	71.0%	7.51	
					G3	10.6 °C	7.94	71.1%	7.52	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.3 °C	3.71	33.0%	7.42	P1					
					P2	10.8 °C	3.12	28.3%	7.37	
					P3	10.7 °C	3.14	28.3%	7.38	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.1 °C	7.65	67.7	7.53	A1	10.3 °C	7.72	68.8%	7.53	
					A2	10.3 °C	7.69	68.5%	7.52	
					A3	10.4 °C	7.75	69.3%	7.51	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.4 °C	2.97	26.5%	7.22	R1					pH values
					X1					DO 60.1%
					X2					
					LTB	11.3 °C	3.72	33.9%	7.33	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.1 °C	6.83	60.5%	7.52	G4	10.5 °C	6.82	61.2%	7.51	
					G5	10.7 °C	6.87	61.7%	7.51	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.2 °C	6.73	59.7%	7.53	R2					
					R3					
					LAB	11.2 °C	7.42	67.4%	7.53	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					
					A5					
					MAMA	9.9 °C	6.63	59.6	7.53	

\*N2 psi/sup: 33.5 ; 3/4

\*CO2 psi/sup: 24 ; 600

Larve

Date & Time:		5/3/24 10 AM		Name of person collecting data: DLM						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.25	8.74	77.9	7.57	G1					Larvae
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.4	3.19	28.4	7.47	G2	10.7	8.62	77.6	7.57	
					G3	10.75	8.63	77.9	7.57	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.25	8.81	78.4	7.57	P1					MT
					P2	10.85	3.08	27.8	7.41	
					P3	10.85	3.03	27.4	7.41	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.6	3.07	27.5	7.27	A1	10.6	8.86	79.4	7.57	
					A2	10.65	8.76	78.7	7.57	
					A3	10.75	8.74	78.6	7.58	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					R1					DO 0.1%
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.3	7.31	65.1	7.56	X1					
					X2					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.4	8.69	77.8	7.61	LTB	11.1	3.80	34.4	7.41	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					P4					MT
					P5					MT
					G4	10.75	6.97	62.7	7.56	
					G5	10.75	7.15	64.6	7.58	
					R2					
					R3					Put Stopper
					LAB	10.5	8.43	75.5	7.56	to make more uniform
					A4					MT
					A5					MT
					MAMA	10.2	7.05	62.8	7.56	reduce bubbles
*N2 psi/sup: 33.5 ; 3/4					*CO2 psi/sup: 22; 600					

Date & Time: 5/21/24 2:00pm

**Name of person collecting data:** Jasmin

Date & Time:	5/27/24	2:00 PM	Name of person collecting data:	John Smith						Adjusted flow or set points?
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6 °C	10.16	93.6%	7.78	G1	11.0 °C	9.07	72.1%	7.63	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	9.9 °C	4.18	36.9%	7.33	G2	10.9 °C	8.81	80.1%	7.63	
					G3	10.3 °C	8.56	75.8%	7.57	
					P1					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.3 °C	8.92	79.5%	7.63	P2	10.3 °C	3.26	29.0%	7.45	
					P3	10.4 °C	3.24	28.8%	7.46	
					A1	11.3 °C	9.82	89.4%	7.70	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	9.9 °C	2.99	26.3%	7.44	A2	11.2 °C	9.72	88.5%	7.70	
					A3	10.5 °C	8.97	80.1%	7.56	
					R1					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					X1					
					X2					
					LTB	11.5 °C	4.62	42.2%	7.49	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.9 °C	8.48	76.7%	7.68	P4					
					P5					
					G4	10.3 °C	6.48	57.7%	7.55	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.4 °C	8.51	75.9%	7.62	G5	10.5 °C	6.65	59.4%	7.55	
					R2					
					R3					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					LAB	11.0 °C	8.50	71.1%	7.61	
					A4					
					A5					
					MAMA	13.3 °C	11.04	106.0%	7.96	

Date & time: 5-2-24 9:30 Name of person collecting data: Magnus

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.75	9.09	81.3	7.63	<b>G1</b>	10.7	9.15	82.1	7.65	
					<b>G2</b>	10.7	9.12	81.8	7.65	
					<b>G3</b>	10.75	9.09	81.7	7.65	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.4	3.46	30.8	7.45	<b>P1</b>	X	X	X	X	
					<b>P2</b>	10.6	3.30	29.5	7.45	
					<b>P3</b>	10.7	3.27	29.3	7.46	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.5	9.37	83.5	7.65	<b>A1</b>	10.7	9.45	84.8	7.65	
					<b>A2</b>	Babes				
					<b>A3</b>	10.95	9.35	84.2	7.65	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.4	7.69	68.5	7.63	<b>R1</b>	X	X	X	X	
					<b>X1</b>	X	X	X	X	
					<b>X2</b>	X	X	X	X	
					<b>LTB</b>	11.0	7.12	64.6	7.59	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	X	X	X	X	<b>P4</b>	X	X	X	X	
					<b>P5</b>	X	X	X	X	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.3	7.41	65.9	7.62	<b>G4</b>	10.6	7.24	64.7	7.61	
					<b>G5</b>	10.55	7.45	66.7	7.62	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.6	8.84	79.0	7.63	<b>R2</b>	X	X	X	X	
					<b>R3</b>	X	X	X	X	
					<b>LAB</b>	11.1	8.53	77.3	7.63	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	X	X	X	X	<b>A4</b>	X	X	X	X	
					<b>A5</b>	X	X	X	X	
					<b>MAMA</b>	10.25	7.09	62.9	7.61	

Date & time: 5-1-24		2:45		Name of person collecting data: Anna								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?		
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.7	10.63	102.4	7.99	G1	13.5	10.35	99.5	7.93			
					G2	13.4	10.03	96.0	7.90			
					G3	13.4	9.62	92.2	7.90			
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.7	3.14	30.3	7.48	P1							
					P2	13.3	3.10	31.7	7.41			
					P3	13.2	3.01	28.6	7.41			
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.1	9.26	93.6	7.86	A1	13.3	10.57	100.2	7.95			
					A2	13.3	10.13	96.7	7.89	↑ accidental cross out		
					A3	13.3	10.17	97.1	7.89			
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1							
					X1							
					X2							
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB							
					P4							
					P5							
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.6	10.44	100.3	7.98	G4	13.2	9.13	86.9	7.83			
					G5	13.2	9.35	89.1	7.87			
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					R2							
					R3							
					LAB							
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.6	10.42	100.1	7.98	A4							
					A5	13.2	10.33	98.4	7.88			
					MAMA	13.5	10.30	98.5	7.95			

\*N2 psi/sup: 401 4/5 80 psi

\*CO2 psi/sup:

Date & time: 5/1/24 9:15 am					Name of person collecting data: Lorenzo + Quinn									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?				
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.0	9.01	79.6	7.60	G1	10.4	9.14	81.4	7.61					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2	10.3	9.00	80.1	7.62					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3	10.3	8.99	79.9	7.62					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1									
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.0	5.19	45.9	7.34	P2	10.3	7.31	65.2	7.28					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3	10.3	7.70	68.6	7.35					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					A1	10.3	9.33	83.1	7.62					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2	10.4	9.14	81.6	7.62					
*N2 psi/sup: Full					A3	10.4	9.15	81.8	7.62					
					R1									
					X1									
					X2									
					LTB									
					P4									
					P5									
					G4	10.4	7.18	64.3	7.58					
					G5	10.4	7.31	65.3	7.59					
					R2									
					R3									
					LAB									
					A4									
					A5									
					MAMA	9.8	6.85	60.3	7.58					
					*CO2 psi/sup: 22 / 600psi									

Date & Time	4/30/24 2:50pm		Name of person collecting data:	Jasmine & Dylan						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.5°C	10.20	95.8%	7.87	G1	13.0°C	10.13	96.1%	7.90	
					G2	13.15°C	9.92	94.1%	7.89	
					G3	13.1°C	9.76	92.7%	7.88	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.8°C	2.98	28.1%	7.48	P1					
					P2	13.15°C	2.73	26.6%	7.43	DO ↑ 1%
					P3	13.15°C	2.79	26.5%	7.43	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.35°C	9.63	87.8%	7.66	A1	13.0°C	10.02	94.9%	7.86	
					A2	13.05°C	9.90	93.9%	7.87	
					A3	13.05°C	9.96	94.5%	7.88	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.8°C	2.74	25.9%	7.41	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB					
					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.65°C	9.47	89.1%	7.87	G4	13.0°C	9.02	85.5%	7.81	
					G5	13.05°C	9.30	88.4%	7.88	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					R2					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					R3					
					LAB					
					A4					
					A5					
					MAMA	12.5°C	9.35	87.5%	7.86	
*N2 psi/sup:	53.5	73.4			*CO2 psi/sup:	2.3	6.00			

Date & Time: 4/30/24 8:15 Am					Name of person collecting data: Dylan					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.05	8.94	79.1	7.67	G1 G2 G3	10.35	8.99	80.0	7.67	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.1	4.81	42.5	7.57		10.35	8.84	78.7	7.67	Air- flow will replace
						10.35	8.75	77.8	7.67	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.05	9.21	81.3	7.67	P1					MT
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.1	3.15	27.8	7.52	P2	10.45	4.01	35.8	7.46	pH + 0.01
					P3	10.45	4.04	36.0	7.46	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					A1	10.35	9.21	81.8	7.69	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.0	7.30	64.4	7.63	A2	10.35	9.04	80.5	7.69	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.05	8.71	77.1	7.67	A3	10.35	9.10	81.0	7.69	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					R1					
*N2 psi/sup: 35; < Full					X1					DO + 0.1%
					X2					
					LTB	9.7	3.29	28.9	7.52	pH + 0.02
					P4					MT
					P5					
					G4	10.4	6.91	61.6	7.65	
					G5	10.4	7.26	64.6	7.68	
					R2					
					R3					
					LAB	10.05	8.94	79.0	7.70	
					A4					
					A5					MT
					MAMA	9.9	7.14	62.7	7.63	
					*CO2 psi/sup: 22; 550					

Date & Time: 4/29/24 3 pm		Name of person collecting data: Neil & Dylan								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.5	10.13	94.9	7.81	G1	12.95	9.93	93.7	7.83	
					G2	12.85	9.72	91.4	7.82	
					G3	12.85	9.66	90.8	7.82	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.5	3.66	34.2	7.30	P1					MT
					P2	12.85	3.08	29.0	7.42	
					P3	12.95	3.07	29.0	7.42	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.5	10.16	95.0	7.81	A1	13.25	9.92	94.1	7.87	
					A2	13.15	9.68	91.5	7.85	
					A3	13.15	9.78	92.3	7.85	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.7	2.97	27.9	7.42	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB	13.0	3.28	30.9	7.45	
					P4					MT
					P5					MT
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.55	4.40	87.9	7.82	G4	12.75	8.75	82.2	7.80	
					G5	12.85	9.08	85.4	7.81	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.6	10.05	91.1	7.82	R2					
					R3					
					LAB	12.6	9.08	85.1	7.67	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					MT
					A5					MT
					MAMA	12.4	9.34	87.2	7.81	
*N2 psi/sup:		3.5	< Full		*CO2 psi/sup: 22; 600					

Date & Time	4/21/24 9:15 AM		Name of person		Testing data: Dylan					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.25	6.67	58.7	7.57	G1	~	~	~	~	Flow ? dec? 1a m re
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.1	3.26	28.7	7.55	G2	10.45	6.84	60.8	7.59	
					G3	10.6	6.97	62.1	7.60	
					P1	~	~	~	~	MT
					P2	10.4	5.18	28.3	7.50	DO b 0.1%
					P3	10.55	3.20	28.5	7.49	pH b 0.02
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.0	7.00	61.6	7.58	A1	10.35	7.45	66.1	7.60	
					A2	10.45	7.48	66.2	7.61	
					A3	10.4	7.57	67.3	7.57	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.2	3.21	28.3	7.50	R1	~	~	~	~	
					X1	~	~	~	~	
					X2	~	~	~	~	
					LTB	9.75	3.32	29.2	7.51	pH b 0.02; DO b 0.1%
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	~	~	~	~	P4	~	~	~	~	MT
					P5	~	~	~	~	MT
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.05	6.39	56.3	7.59	G4	10.45	6.75	60.0	7.59	
					G5	10.55	7.15	63.6	7.60	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.05	8.17	72.1	7.61	R2	~	~	~	~	
					R3	~	~	~	~	
					LAB	10.45	8.91	79.0	7.63	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	~	~	~	~	A4	~	~	~	~	MT; sieve soak
					A5	10.5	8.39	74.7	7.63	MT; chase
					MAMA	10.0	5.95	52.3	7.56	1 bubbler
*N2 psi/s		35	< Full		*CO2 psi/sup:		21	600		

Date & Time:		4/28/2K 2:20 pm		Name of person collecting data: manton						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.4	9.20	85.7	7.83	G1	13.0	9.13	86.1	7.79	larvae
					G2	13.1	9.23	87.1	7.80	
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.3	4.01	42.7	7.45	P1					
					P2	12.9	3.12	29.4	7.43	
					P3					larvae?
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.2	9.09	84.2	7.80	A1	13.1	9.97	94.0	7.86	
					A13	13.1	9.69	95.5	7.83	
					A12	12.9	9.62	90.6	7.83	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.3	2.70	25.1	7.43	R1					
					X1					
					X2					
					LTB	13.0	3.25	30.6	7.48	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.3	9.08	87.7	7.79	G4	12.8	9.36	87.8	7.80	
					G5	12.9	9.60	90.4	7.81	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.1	9.61	89.2	7.80	R2					
					R3					
					LAB	12.3	8.88	82.9	7.63	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					
					A5					
					MAMA	12.0	8.56	78.9	7.86	very full

\*CO2 psi/sup:

\*N2 psi/sup:

Date & Time: 4-28-24 8:23 am		Name of person collecting data: Dailyn								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.1	6.67	58.6	7.62	G1	10.1	6.52	52.3	7.62	Larvae
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.2	4.30	37.9	7.48	G2	10.4	6.52	52.3	7.63	all flows reset
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.1	7.25	63.8	7.62	G3	10.4	6.63	58.8	7.65	to 60m/s
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.2	3.18	28.1	7.51	P1	10.4	6.32	53.28	7.53	DO + pH
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P2	10.5	3.23	28.6	7.53	↓ 0.2
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.1	6.29	55.3	7.62	A1	10.3	7.33	64.7	7.65	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.2	8.44	74.3	7.63	A2	10.2	7.18	63.3	7.63	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A3	10.3	7.25	64.1	7.63	
<i>*N2 psi/sup: 70 psi / Full</i>					R1					
					X1					
					X2					
					LTB	10.2	3.34	29.6	7.53	DO + pH + 0.2
					P4					
					P5					
					G4	10.5	6.08	53.9	7.62	
					G5	10.4	6.21	55.2	7.63	
					R2					
					R3					
					LAB	10.2	8.75	77.3	7.66	
					A4					
					A5					
					MAMA	9.9	6.42	56.9	7.62	bubbler turned on
					<i>*CO2 psi/sup: 550 / 21 psi</i>					

Date & Time: 4/27/24 1:10 pm			Name of person collecting data: Lorenzo							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.6	9.27	86.6	7.85	G1	12.8	9.29	82.3	7.85	
					G2	12.8	8.89	83.6	7.84	
					G3	12.9	9.01	84.8	7.84	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.7	3.77	35.3	7.50	P1					
					P2	12.8	3.07	28.9	7.48	
					P3	12.9	3.05	28.7	7.48	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.1	9.04	83.5	7.80	A1	12.7	9.49	89.0	7.85	
					A2	12.7	9.24	86.7	7.84	
					A3	12.7	9.29	87.1	7.84	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.8	2.91	27.3	7.53	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB	12.7	3.24	30.3	7.53	
					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.1	8.65	80.1	7.82	G4	12.7	8.26	77.5	7.80	
					G5	12.7	8.69	81.3	7.82	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.0	9.63	88.9	7.81	R2					
					R3					
					LAB	12.1	8.70	80.6	7.65	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					
					A5					
					MAMA	11.8	8.19	75.3	7.80	

\*N2 psi/sup: F

\*CO2 psi/sup: 22 psi / 600 psi

Date & Time:		4/27/24 9:07 am		Name of person collecting data: Jasmin						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.0 °C	9.21	84.9%	7.81	G1	11.3 °C	7.85	71.3%	7.70	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					G2	11.1 °C	7.37	66.5%	7.67	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					G3	11.3 °C	7.48	67.9%	7.68	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.1 °C	3.66	33.2%	7.60	P1					empty
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P2	10.6 °C	3.33	29.7%	7.51	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					P3	10.6 °C	3.36	30.0%	7.52	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.2 °C	3.07	27.9%	7.56	A1					larvae to be removed
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					A2	11.4 °C	8.31	75.6%	7.71	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A3	11.5 °C	8.70	79.5%	7.74	
<b>R1</b>					R1					empty
<b>X1</b>					X1					
<b>X2</b>					X2					
<b>LTB</b>					LTB	10.3 °C	3.29	29.3%	7.55	
<b>P4</b>					P4					EMPTY
<b>P5</b>					P5					
<b>R2</b>					R2					EMPTY
<b>R3</b>					R3					
<b>LAB</b>					LAB	10.3 °C	8.58	75.9%	7.66	
<b>A4</b>					A4					EMPTY
<b>A5</b>					A5					
<b>MAMA</b>					MAMA	12.3 °C	10.01	92.9%	7.87	
*N2 psi/sup: 7F					*CO2 psi/sup: 550 psi ; 22 psi					

Date & time: 4/26/24 2pm		Name of person collecting data: Matt / Caitlyn								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.7°C	8.23	75.7%	7.65	G1					-
					G2	12.3°C	8.27	77.1%	7.67	-
					G3	12.5°C	8.38	78.4%	7.67	-
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.1%	3.23	29.9%	7.42	P1					-
					P2	12.7°C	2.88	27.0%	7.37	-
					P3	12.7°C	2.94	27.6%	7.37	-
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6°C	8.38	76.6%	7.64	A1					-
					A2					-
					A3	12.2°C	8.55	79.2%	7.67	-
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.2°C	3.02	28.0%	7.38	R1					-
					X1					-
					X2					-
					LTB	12.8°C	3.36	31.6%	7.41	-
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					-
					P5					-
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.7°C	8.01	73.5%	7.65	G4	12.5°C	8.02	74.9%	7.67	-
					G5	12.5°C	8.18	76.4%	7.67	-
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.0°C	9.54	88.0%	7.68	R2					-
					R3					-
					LAB	12.5°C	9.78	91.5	7.70	-
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					-
					A5					-
					MAMA	11.6°C	7.72	70.6%	7.63	-

\*N2 psi/sup:

Date & Time:		4/26/24 9 am		Name of person collecting data: Karla						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.75	9.04	84.8	7.76	<b>G1</b>	~	~	~	~	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.8	2.49	23.4	7.51	<b>G2</b>	11.8	7.49	68.8	7.62	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.8	9.49	89.3	7.76	<b>G3</b>	11.9	7.65	70.5	7.64	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.8	2.91	27.4	7.39	<b>P1</b>	~	~	~	~	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	~	~	~	~	<b>P2</b>	12.45	3.12	28.9	7.41	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.85	9.23	87.0	7.77	<b>P3</b>	12.45	3.04	28.3	7.41	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.85	10.18	96.0	7.79	<b>A1</b>	~	~	~	~	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	~	~	~	~	<b>A2</b>	~	~	~	~	
<b>*N2 psi/sup:</b>					<b>A3</b>	~	~	~	~	
					<b>R1</b>	~	~	~	~	
					<b>X1</b>	~	~	~	~	
					<b>X2</b>	~	~	~	~	
					<b>LTB</b>	11.45	3.29	30.0	7.44	
					<b>P4</b>	~	~	~	~	
					<b>P5</b>	~	~	~	~	
					<b>G4</b>	12.15	7.42	68.7	7.67	
					<b>G5</b>	12.25	7.76	72.1	7.67	
					<b>R2</b>	~	~	~	~	
					<b>R3</b>	~	~	~	~	
					<b>LAB</b>	12.35	9.56	89.3	7.69	
					<b>A4</b>	~	~	~	~	
					<b>A5</b>	~	~	~	~	
					<b>MAMA</b>	12.9	9.81	92.6	7.73	
					<b>*CO2 psi/sup:</b>					

Date & Time:	4/25/24	2:00 pm		Name of person collecting data:	Jasmin					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.3°C	7.11	64.4%	7.62	G1	11.5°C	7.15	65.3%	7.64	
					G2	11.75°C	6.92	63.4%	7.62	
					G3	11.7°C	7.15	65.3%	7.62	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.3°C	3.91	35.5%	7.43	P1					
					P2	11.75°C	3.12	28.6%	7.40	
					P3	11.8°C	3.22	29.5%	7.42	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6°C	8.62	78.7%	7.63	A1	12.15°C	8.36	77.3%	7.62	
					A2	12.85°C	7.70	72.5%	7.56	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.4°C	3.07	27.8%	7.40	R1					
					X1					
					X2					
					LTB	12.15°C	3.43	31.8%	7.43	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.3°C	7.15	64.8%	7.64	G4	11.8°C	6.82	62.7%	7.62	
					G5	11.75°C	7.10	65.2%	7.64	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.3°C	8.41	76.3%	7.64	R2					
					R3					
					LAB	11.95°C	8.08	74.2%	7.62	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					
					A5					
					MAMA					

\*N2 psi/s

>F'

\*CO2 psi/sup: 600 psi; 22

NO Stand pipe

Date & Time:		7:45 AM		4/25/24		Name of person collecting data: Dylm					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.25	8.34	77.4	7.75	G1	11.4	6.68	60.7	7.62	8:1 mix 0:1	
					G2	11.3	6.19	56.2	7.60	dead bubbler & schmutz	
					G3	11.4	6.64	60.4	7.61		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.05	2.80	25.9	7.51	P1					MT	
					P2	11.25	3.16	28.7	7.43		
					P3	11.2	3.17	28.6	7.43	0:1	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.4	8.42	76.3	7.63	A1	11.7	9.57	87.9	7.70	NO	
					A2	11.4	9.10	82.9	7.65	0:1	
					A3					Perfusion	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.45	3.17	28.8	7.43	R1						
					X1						
					X2						
					LTB	10.05	3.42	30.3	7.48		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					MT	
					P5					MT	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.6	5.94	53.6	7.55	G4	11.5	6.61	60.3	7.59	Egg low water to header	
					G5	11.5	6.95	63.3	7.61		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.25	8.18	73.7	7.64	R2						
					R3						
					LAB	10.0	7.79	68.6	7.58		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					MT	
					A5					MT	
					MAMA					MT	
*N2 psi/sup:						*CO2 psi/sup: 22 ; 600					

Wader off @ 8:04 AM

Date & Time:	4/24/24	2:00	Name of person collecting data:	Sofia						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.2	6.56	60.7	7.65	G1	11.8	6.32	57.9	7.60	
					G2	11.9	6.37	58.6	7.60	
					G3	12.1	6.96	64.3	7.64	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.0	3.57	33.0	7.51	P1	12.4	3.24	30.1	7.37	DO ↓ 0.2%
					P2	12.4	3.40	31.6	7.39	
					P3	12.3	3.98	36.9	7.41	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.7	6.63	60.6	7.63	A1					
					A2	12.2	6.83	63.1	7.67	
					A3	12.4	6.63	61.7	7.61	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.7	2.85	26.8	7.40	R1					
					X1					
					X2					
					LTB	12.2	3.71	34.3	7.38	"
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.2	8.19	79.4	7.61	P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.7	4.12	38.5	7.42	G4	12.9	3.82	36.0	7.37	"
					G5	12.9	4.10	38.5	7.39	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.2	8.05	74.6	7.61	R2					
					R3					
					LAB	12.4	8.21	76.2	7.63	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.0	9.75	92.0	7.72	A4	13.5	7.25	69.1	7.61	
					A5	13.2	8.29	78.6	7.65	
					MAMA					

\*CO2 psi/sup: 60° p: 122 °F

\*N2 psi/s:

7 Full

Date &amp; Time: 4/24/24

Name of person collecting data: Dawn

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.2	8.85	103.6		G1	13.3	8.67	101.6		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.1	4.19	49.0		G2	12.9	5.51	64.0		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	7.62	86.6		G3	12.9	8.22	95.7		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.7	2.93	39.0		P1	13.0	2.87	33.6		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P2	12.8	2.90	33.7		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.3	3.41	40.0		P3	13.1	3.35	39.1		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.9	8.25	94.5		A2	13.0	8.54	99.4		
<i>*N2 psi/sup: almost empty swapped @ 10 AM &gt; Full tank</i>					A3	12.8	5.60	65.0		
<i>*CO2 psi/sup:</i>					R1					
					X1					
					X2					
					LTB	10.5	3.25	36.4		
					P4					
					P5					
					G4	13.0	3.08	35.9		
					G5	13.2	3.07	35.9		
					R2					
					R3					
					LAB	10.5	7.36	82.6		
					A4	12.1	6.32	72.5		
					A5	12.1	6.88	79.0		
					MAMA					

\*N2 psi/sup: almost empty swapped @ 10 AM &gt; Full tank

\*CO2 psi/sup:

★BOAT TRIP DAY, YSI used, HACH pH probe not reliable

Date & Time:	Name of person collecting data: Jasmin									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.95°C	9.15	84.1%	7.69	G1	12.15°C	9.14	85.1%	7.69	
					G2	12.75°C	8.44	79.5%	7.69	
					G3	12.75°C	9.18	86.5%	7.72	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.85°C	3.52	32.4%	7.52	P1	12.05°C	3.04	28.1%	7.44	
					P2	12.15°C	3.09	28.7%	7.44	
					P3	12.15°C	3.11	28.9%	7.44	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.95°C	8.85	81.8%	7.66	A1					MT
					A2					Parturition
					A3	12.5°C	8.69	81.2%	7.68	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.45°C	3.17	29.6%	7.20	R1					MT
					X1					
					X2					
					LTB	13.0°C	3.49	33.0%	7.42	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					MT
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.85°C	3.63	33.4%	7.52	G4	12.05°C	3.32	30.8%	7.42	
					G5	12.1°C	3.35	31.0%	7.42	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.8°C	9.18	84.5%	7.65	R2					MT
					R3					
					LAB	12.65°C	8.99	84.4%	7.68	
					A4	12.8°C	9.42	88.7%	7.71	
					A5	12.8°C	9.79	92.3%	7.73	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.1°C	9.74	90.5%	7.69	MAMA					MT

Date & Time:		4.23.24 8:30 - 10:20		Name of person collecting data:		Dylan				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.05	10.37	98.3	7.90	G1	13.05	10.13	96.0	7.88	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.0	3.25	30.8	7.44	G2					6 fast bubbles
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.85	10.24	97.5	7.89	G3	12.5	8.97	83.9	7.75	Very low flow
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.0	3.11	29.4	7.45	P1	13.0	2.95	27.9	7.50	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P2	13.0	2.99	28.2	7.49	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.0	3.72	35.2	7.39	P3	12.9	3.20	30.3	7.51	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.95	9.86	93.5	7.89	A1					MT
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.95	10.14	96.2	7.86	A2					Parturition
*N2 psi/sup:	35	>F			A3	12.8	9.72	91.7	7.84	
					R1					
					X1					
					X2					
					LTB	12.8	3.28	30.8	7.53	
					P4					
					P5					MT
					G4	12.9	3.37	31.9	7.49	
					G5	12.9	3.35	31.7	7.50	
					R2					
					R3					
					LAB	13.0	8.57	81.0	7.88	
					A4	12.85	9.77	92.3	7.83	
					A5	12.85	9.88	93.1	7.81	bubbles not fine
					MAMA					MT
					*CO2 psi/sup:	21	>600			

System failure @ beginning of spot check

Date & Time: 4/22/24 2:27 PM		Name of person collecting data: Neil & Dairlyn								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.40	8.70	79.6	7.68	G1	11.70	8.81	81.3	7.67	
					G2	11.90	8.54	78.8	7.67	
					G3	12.0	8.87	82.5	7.70	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.30	3.83	35.1	7.53	P1	11.60	3.44	31.6	7.41	
					P2	11.70	3.46	31.8	7.43	
					P3	11.70	3.36	31.0	7.43	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.40	8.46	77.6	7.66	A1					
					A2	11.70	8.37	77.2	7.69	
					A3	11.70	8.40	77.5	7.68	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.10	3.10	28.9	7.40	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB	12.80	3.23	30.6	7.71	
					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.30	3.74	34.1	7.51	G4	11.80	3.60	33.2	7.44	
					G5	11.60	3.64	33.5	7.45	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					R2					
	11.40	7.93	72.5	7.63	R3					
					LAB	12.0	8.29	76.9	7.66	
					A4	12.0	8.79	81.7	7.68	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.70	8.68	80.0	7.69	A5	12.20	9.33	87.0	7.71	
					MAMA					

Date &amp; Time: 4/22/24 9:46 am

Name of person collecting data: Sam

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.2	9.58	89.3	7.76	G1	12.6	9.85	92.7	7.75	
					G2	12.5	9.13	85.8	7.74	
					G3	12.5	9.65	90.6	7.74	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.0	3.46	31.7	7.42	P1	12.6	3.19	30.0	7.45	
					P2	12.6	3.11	29.2	7.45	
					P3	12.6	3.12	29.3	7.45	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.4	7.60	72.4	7.92	A1					"no fish"
					A2	12.3	9.14	85.5	7.74	
					A3	12.3	9.25	86.6	7.75	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.7	3.03	28.7	7.80	R1					" "
					X1					↓
					X2					" "
					LTB	13.0	3.17	30.1	7.81	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					" "
					P5					↓
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.0	5.55	51.5	7.53	G4	12.5	3.40	32.0	7.45	DO is high
					G5	12.5	3.39	31.9	7.45	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.1	9.23	85.9	7.75	R2					" "
					R3					↓
					LAB	12.7	8.91	84.1	7.75	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.6	9.67	90.9	7.79	A4	12.8	9.74	92.2	7.80	
					A5	12.6	9.95	94.2	7.81	
					MAMA					
*N2 psi/sup: < 1/2 F					*CO2 psi/sup: 22/600 psi					

Date & Time:	4/21/24	2pm	Name of person collecting data:	Manbna + Dailya						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6	8.78	80.3	7.61	G1	11.7	8.27	76.1	7.57	
					G2	11.8	7.90	72.7	7.56	→ no flow?
					G3	11.8	8.43	77.6	7.59	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.3	3.22	29.3	7.42	P1	11.5	3.31	20.2	7.36	DO ↓
					P2	11.4	3.17	28.9	7.38	pH ↑
					P3	11.5	3.15	28.7	7.38	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.7	8.43	77.4	7.61	A1					
					A2	11.7	7.90	72.4	7.57	
					A3	11.7	7.94	73.1	7.57	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.6	3.10	28.4	7.43	R1					
					X1					
					X2					
					LTB	13.1	3.25	30.9	7.35	DO ↓ pH ↑
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.3	3.91	35.5	7.47	G4	11.7	3.46	31.8	7.36	DO ↓ pH ↑
					G5	11.6	3.46	31.7	7.36	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.5	8.10	73.9	7.60	R2					
					R3					
					LAB	12.4	7.80	73.3	7.57	
					A4	12.0	8.37	77.3	7.58	
					A5	12.0	8.68	80.5	7.60	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	8.40	77.0	7.58	MAMA					

\*N2 psi/s

58<sub>00j</sub>) < 1/2 full

Date &amp; Time: 4-21-24 8:20am

Name of person collecting data: Dailyn

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.3	9.76	90.5	7.79	G1	12.3	9.67	90.0	7.82	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.2	3.58	33.8	7.51	G2	12.3	9.16	84.9	7.78	
					G3	12.3	9.84	91.5	7.82	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.4	9.74	90.4	7.79	P1	12.9	3.19	30.0	7.44	pH ↓ 0.01
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.5	3.16	29.4	7.47	P2	12.6	3.08	28.7	7.45	
					P3	12.5	3.01	28.2	7.44	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					A1					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.2	4.01	37.8	7.47	A2	12.4	9.60	89.3	7.81	
<b>LH2</b> Larval Treatment 3mg/L, 7.4	12.2	9.29	86.0	7.78	A3	12.4	9.74	90.7	7.81	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.4	9.98	92.9	7.83	R1					
					X1					
					X2					
					LTB	12.6	3.36	31.4	7.50	DO ↓ 0.3%, pH ↓ 0.02
					P4					
					P5					
					G4	12.5	3.53	32.8	7.46	DO ↓ 0.3%.
					G5	12.4	3.33	30.9	7.45	pH ↓ 0.01
					R2					
					R3					
					LAB	12.6	9.69	90.7	7.82	
					A4	12.4	9.95	92.9	7.84	
					A5	12.4	10.17	94.7	7.84	bubbling
					MAMA					

\*N2 psi/sup: 55 psi / 1/2 Full

\*CO2 psi/sup: 21 / 600 psi

Date & Time: 2 pm 4/20/24					Name of person collecting data: Matt					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.8°C	8.95	81.9	7.62	G1	11.9°C	8.62	79.2%	7.59	
					G2	12.0°C	8.18	75.3%	7.58	
					G3	11.9°C	8.76	80.4%	7.60	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.7°C	3.36	30.6%	7.33	P1				Do not touch	
					P2	11.8°C	3.08	28.3%	7.30	
					P3	11.9°C	3.09	28.5%	7.41	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.0°C	7.06	83.4%	7.64	A1					
					A2	12.0°C	8.67	80.2%	7.60	
					A3	12.2°C	8.77	81.0%	7.59	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.2°C	3.26	30.2%	7.30	R1					
					X1					
					X2					
					LTB	12.0°C	3.77	34.8%	7.36	↓ DO.2; ↑ pH
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH				7.31	P4					
					P5					
					G4	11.8°C	3.71	33.9%	7.37	↓ DO.2
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.7°C	3.87	35.4%	7.31	G5	11.7°C	3.57	32.8%	7.36	↑ pH .1
					R2					
					R3					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.7°C	8.70	79.9%	7.62	LAB	12.4°C	8.70	80.9%	7.61	
					A4	12.9°C	8.39	78.8%	7.61	
					A5	12.7°C	9.47	88.8%	7.68	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.6°C	9.88	92.3%	7.65	MAMA					

\*CO2 psi/sup:

\*N2 psi/sup:

Date & Time: 4/20/24 9am					Name of person collecting data: Jasmin					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6°C	9.32	85.1%	7.68	G1	11.8°C	9.22	84.6%	7.68	
					G2					→ eggs
					G3					→ eggs
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.5°C	3.50	32.0%	7.44	P1					→ larvae
					P2					→ eggs
					P3	11.7°C	3.03	27.8%	7.41	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.7°C	9.37	85.7%	7.68	A1					→ no fish
					A2	11.8°C	9.23	84.7%	7.68	
					A3	11.8°C	9.19	84.4%	7.68	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB					
					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6°C	3.86	35.2%	7.47	G4					→ no touch
					G5	11.6°C	3.50	32.0%	7.40	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.8°C	8.96	82.2%		R2					→ no fish
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.9°C	9.86	90.8%	7.72	R3					
					LAB					
					A4					→ eggs
					A5	12.0°C	10.00	92.3%	7.72	
					MAMA					
*N2 psi/sup:					*CO2 psi/sup: 72 psi ; 560 psi					

Date & time: 4/19/24 2 pm					Name of person collecting data: Caitlyn + Matt					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.95	9.64	89.1	7.66	G1	11.7	8.61	79.1	7.58	
					G2	11.7	8.18	75.1	7.56	
					G3	11.8	8.48	78.1	7.56	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.5	3.21	30.0	7.37	P1	12.1	3.05	28.2	7.39	
					P2	11.9	3.22	29.7	7.39	
					P3	11.9	3.14	29.0	7.40	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.25	9.69	90.1	7.70	A1	11.9	8.51	78.6	7.60	
					A2	12.0	8.60	79.4	7.60	
					A3	11.95	8.60	79.4	7.60	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB					
					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.3	3.90	36.4	7.28	G4	11.75	3.09	35.9	7.38	10.3
					G5	11.75	3.74	34.4	7.38	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.45	9.98	93.3	7.73	R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.75	9.38	86.3	7.61	A4	11.8	8.95	82.4	7.57	
					A5	11.8	9.25	85.2	7.58	
*N2 psi/sup:					MAMA					
					*CO2 psi/sup:					

Date & Time: 4/19/24 9 am Name of person collecting data: Karla

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0	8.36	75.5	7.62	G1	11.5	9.31	85.1	7.72	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.95	3.52	31.7	7.43	G2	11.8	9.14	84.2	7.71	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.15	8.50	76.9	7.63	G3	11.75	8.97	82.4	7.71	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1	11.35	2.98	27.3	7.41	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P2					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.9	4.27	38.5	7.48	P3	11.55	3.08	38.1	7.42	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.95	8.11	73.1	7.60	A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.4	9.57	87.4	7.67	A2	11.7	9.12	83.6	7.71	
					A3	11.65	9.08	83.4	7.71	
					R1					
					X1					
					X2					
					LTB					
					P4					
					P5					
					G4					
					G5	11.45	3.60	32.9	7.43	
					R2					
					R3					
					LAB					
					A4	12.0	9.85	91.1	7.76	
					A5					
					MAMA					

\*N2 psi/sup:

\*CO2 psi/sup:

Date & time:		4/18/24 2:00 pm		Name of person collecting data: Jazmine						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.3°C	10.64	101.5%	7.79	G1	12.8°C	9.91	93.6%	7.74	
					G2	12.6°C	8.71	81.3%	7.63	
					G3	12.6°C	9.25	86.7%	7.68	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.2°C	3.42	32.7%	7.50	P1	12.6°C	3.24	30.4%	7.42	
					P2	12.6°C	3.25	30.4%	7.42	
					P3	12.6°C	3.12	29.7%	7.42	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.7°C	8.33	76.5%	7.60	A1					
					A2	12.6°C	9.53	89.7%	7.71	
					A3	12.8°C	9.57	90.2%	7.71	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB					
					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.5°C	3.74	35.8%	7.50	G4	13.0°C	3.86	36.6%	7.39	DO ↓
					G5	13.1°C	3.76	35.6%	7.38	
					R2					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.4°C	10.56	100.7%	7.81	R3					
					LAB					
					A4	12.5°C	9.63	90.2%	7.65	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.0°C	10.42	98.8%	7.75	A5	12.5°C	9.73	91.1%	7.63	
					MAMA					

\*N2 psi/sup: Full 35 psi

\*CO2 psi/sup: 600 psi

Date & Time: 4/18/24 10:00 AM					Name of person collecting data: Dian					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.5	6.97	77.4	7.76	G1	10.8	6.93	77.4	7.83	
					G2	10.8	6.88	76.8	7.84	
					G3	10.9	6.93	77.3	7.83	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.7	4.03	44.7	7.56	P1	11.2	3.08	34.7	7.56	
					P2	11.0	3.09	34.6	7.56	
					P3	11.1	3.08	34.6	7.56	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.6	6.85	76.2	7.77	A1					
					A2	10.9	6.93	77.5	7.86	
					A3	11.0	7.03	78.7	7.84	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB					
					P4					
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.4	4.63	51.1	7.56	G4	10.9	3.48	39.0	7.57	
					G5	11.0	3.44	38.5	7.57	
					R2					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.6	6.82	75.9	7.76	R3					
					LAB					
					A4	11.6	7.87	89.3	7.86	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.1	7.83	88.1	7.83	A5	11.5	7.53	85.6	7.87	
					MAMA					

\*N2 psi/sup: Full

\*CO2 psi/sup: 600 psi

→ PSI  
→ N2 in → CO2 in

Date & Time: 4/17/24 9:38 AM					Name of person collecting data: Dylia					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.2	7.04	63.8	7.61	G1	11.25	6.09	55.3	7.55	
					G2	11.25	5.92	53.7	7.55	
					G3	11.4	6.06	55.2	7.55	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.05	3.56	32.4	7.32	P1	11.2	4.40	39.9	7.42	
					P2	11.25	4.69	42.6	7.46	Ghost babies
					P3	11.1	4.36	39.6	7.42	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.35	6.89	62.7	7.60	A1				MT	
					A2	11.35	6.03	54.8	7.56	
					A3	11.35	6.04	55.0	7.56	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1				MT	
					X1				MT	
					X2				MT	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB				MT	
					P4				MT	
					P5				MT	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.05	4.01	36.3	7.29	G4	11.45	4.29	39.1	7.44	8995
					G5	11.5	4.30	39.3	7.43	1995
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.35	7.08	64.6	7.80	R2				MT	
					R3				MT	
					LAB				MT	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.35	7.18	65.4	7.57	A4	11.7	7.15	65.6	7.56	
					A5	12.95	9.39	88.4	7.69	5452 + more on
					MAMA				MT	
*N2 psi/sup:	35	7F911			*CO2 psi/sup:	21	600			

left line  
←

Gas5 back on @ 7:15pm

pH back to treat @ 9:30am







Date & Time: 4/15/2021 2:00 p.m.					Name of person collecting data: Neil P. D. M.					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.45	9.97	92.5	7.79	G1	12.67	9.69	90.4	7.78	
					G2	12.7	9.43	88.1	7.76	
					G3	12.75	9.44	88.7	7.76	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.45	3.07	28.5	7.36	P1	12.85	3.04	28.4	7.40	
					P2	12.65	3.04	28.5	7.40	ghost bubble??
					P3	12.85	3.04	28.4	7.40	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.5	9.16	92.6	7.79	A1	12.75	9.87	92.2	7.77	
					A2	12.75	9.22	86.3	7.74	
					A3	12.8	9.12	85.5	7.74	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.55	3.13	29.1	7.38	R1					
					X1					
					X2					
					LTB	13.0	3.26	30.7	7.38	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					
					P5					
<b>GH2</b> Gestational 3 mg/L, 7.4 pH	12.55	4.21	31.2	7.35	G4	12.7	3.88	36.4	7.35	Dab 0.00%
					G5	12.85	3.85	35.9	7.37	pH + 0.01
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.5	9.99	92.8	7.78	R2					
					R3					
					LAB	12.75	9.63	90.1	7.78	
					A4	12.95	9.53	89.6	7.74	
					A5	12.15	9.06	85.2	7.70	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.85	9.95	13.2	7.78	MAMA					

\*N2 psi/sup:

\*CO2 psi/sup:

4/15/24 8AM

Dylan

Date & Time:					Name of person collecting data:					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.85	9.35	85.7	7.76	G1	11.7	8.53	77.6	7.71	
					G2	11.5	7.99	72.3	7.68	
					G3	11.5	8.11	73.7	7.69	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.85	9.19	84.2	7.75	P1	11.5	8.08	73.4	7.70	
					P2					egg release
					P3	11.5	7.95	72.3	7.69	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.85	9.06	83.0	7.74	A1	11.5	8.70	79.1	7.69	
					A2	11.45	8.57	77.8	7.67	MT for now
					A3	11.45	8.24	74.8	7.66	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.9	3.14	28.8	7.40	R1					MT
					X1					MT
					X2					MT
					LTB	11.5	3.36	30.1	7.45	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					P4					Holden
					P5					Off
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.8	9.35	85.7	7.75	G4	11.65	8.38	76.4	7.70	
					G5					egg release
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.85	9.34	85.6	7.77	R2					MT
					R3					MT
					LAB	10.9	8.16	73.2	7.69	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.75	9.09	83.0	7.73	A4	11.5	8.88	80.8	7.70	MT for now
					A5	11.65	7.86	71.5	7.64	
					MAMA					MT ::

\*N2 psi/sup: 35, 7Fm1

\*CO2 psi/sup: 21, 550

Date & time: 4/14/24 2:20 pm					Name of person collecting data: Mahlon + Dailey					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.2	8.96	82.8	7.72	G1	12.4	9.18	85.3	7.67	
					G2	12.5	9.58	89.1	7.67	
					G3	12.5	9.75	90.8	7.67	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.0	8.82	81.2	7.72	P1	12.4	8.96	83.2	7.69	
					P2	12.4	9.15	85.0	7.69	
					P3	12.4	9.10	84.4	7.69	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.0	8.86	81.5	7.72	A1	12.4	9.10	84.4	7.69	
					A2					
					A3	12.5	9.34	87.0	7.69	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.7	2.59	24.2	7.36	R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB	12.8	3.28	30.8	7.36	
					P4					
					P5					
<b>GH2</b> Gestational 8 mg/l, 7.8- 7.9 pH	12.1	9.91	91.4	7.71	G4	12.5	9.41	87.6	7.68	
					G5	12.5	9.45	88.0	7.68	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.1	8.94	82.5	7.71	R2					
					R3					
					LAB	12.4	9.22	85.6	7.70	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.3	9.44	87.5	7.71	A4					
					A5	12.6	10.03	93.7	7.60	
					MAMA					

\*N2 psi/sup:

\*CO2 psi/sup:

Date & Time: 4-14-24

Name of person collecting data: Dailyn & Nicolle

Date & time: 4/13/24 2:36 pm					Name of person collecting data: Sam & Dry 1 min					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.7	9.17	84.3	7.72	G1	12.0	10.75	99.6	7.78	
					G2	12.0	10.79	99.9	7.78	
					G3	12.0	10.78	99.9	7.80	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.6	9.01	82.7	7.72	P1	12.0	10.34	95.8	7.78	
					P2	12.0	10.80	100.1	7.80	
					P3	12.0	10.69	99.2	7.81	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	9.03	82.8	7.72	A1	12.0	10.62	98.3	7.78	
					A2					
					A3	12.0	10.90	101.1	7.79	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.7	9.33	99.8	7.52	P4	11.9	10.25	95.1	7.77	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.7	8.90	82.0	7.72	G4	12.1	9.94	92.8	7.75	
					G5	12.1	10.47	97.4	7.77	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.7	8.79	80.7	7.72	R2					
					R3					
					LAB	11.2	9.12	82.9	7.77	
					A4	12.1	10.78	100.4	7.79	
					A5	12.1	11.13	103.7	7.82	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.9	9.99	92.6	7.78	MAMA					

\*N2 psi/sup: ~25 psi/2 full

\*CO2 psi/sup: 550/22 psi

Date & Time:	Name of person collecting data:									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6°C	10.04	92.2%	7.61	G1	11.6°C	11.28	103.6%	7.76	
					G2	11.6°C	11.38	104.4%	7.79	
					G3	11.5°C	10.95	100.5%	7.76	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					P1	11.5°C	11.21	102.9%	7.69	
					P2	11.5°C	11.05	101.3%	7.64	
					P3	11.5°C	11.50	105.6%	7.71	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					A1	11.6°C	11.60	106.6%	7.84	
					A2					
					A3	11.6°C	11.39	104.8%	7.78	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.8°C	4.11	37.9%	7.51	P4	11.6°C	11.42	104.7%	7.72	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					G4	11.6°C	10.31	94.6%	7.52	
					G5	11.6°C	10.77	98.9%	7.51	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.9°C	7.89	71.1%	7.59	R2					
					R3					
					LAB	9.8°C	7.75	68.2%	7.61	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4	11.7°C	11.48	105.7%	7.64	
					A5	11.6°C	11.72	107.5%	7.77	
					MAMA	11.8°C	10.68	98.7%	7.73	

\*N2 psi/

<sup>a</sup>CO2 psi/sup:

Air石英 taken at 4:55, P2, L2 @ 7:55 a.m.

Date & Time: 4-12-24 9:25 pm					Name of person collecting data:					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH					G1					
					G2					
					G3					
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					P1	11.6	8.79	81.2	7.46	
					P2	11.6	10.41	96.1	7.51	
					P3	11.6	9.23	85.2	7.50	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					A1					
					A2					
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					R1					
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH					LTB					
					P4	11.6	8.28	76.3	7.47	
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					G4	11.6	7.08	65.2	7.47	
					G5	11.7	8.15	75.4	7.49	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					
					A5					
					MAMA					
*N2 psi/sup:					*CO2 psi/sup:					

Date & Time:		Name of person collecting data: Matt & Caitlyn								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.3	10.63	97.4	7.66	G1	11.9	10.34	96.0	7.72	
					G2	12.0	10.27	95.4	7.73	
					G3	DO NOT DO	—	—	—	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.65	3.43	31.7	7.33	P1	12.3	3.01	28.2	7.38	
					P2	12.25	3.16	29.5	7.40	
					P3	12.3	3.33	31.2	7.40	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.25	10.74	98.2	7.67	A1	11.9	10.75	99.6	7.73	
					A2	DO NOT DO	—	—	—	
					A3	12.05	10.44	97.1	7.73	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.35	2.61	24.5	7.38	R1	X	X	X	X	
					X1	X	X	X	X	No FISH
					X2	X	X	X	X	
					LTB	11.65	3.45	31.9	7.40	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.8	3.34	30.8	7.50	P4	12.3	3.34	31.2	7.38	
					P5	12.3	3.58	33.5	7.39	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.0	3.85	35.8	7.45	G4	12.5	3.88	36.5	7.51	pH ↓ .02
					G5	12.4	3.83	36.0	7.51	DO ↓ .5%
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.55	10.34	95.0	7.10	R2	X	X	X	X	No FISH
					R3	X	X	X	X	
					LAB	11.8	10.18	94.1	7.72	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.95	10.50	97.4	7.71	A4	12.35	10.42	97.6	7.78	
					A5	12.35	10.83	101.5	7.79	
					MAMA	11.2	10.61	97.0	7.64	

\*CO2 psi/sup:

\*N2 psi/sup:

Date & Time: 4/12/24 9 AM					Name of person collecting data: Karla, Julian, Madeline					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.05	10.57	98.7	7.95	G1	11.25	9.85	90.3	7.67	
					G2	11.05	9.72	88.5	7.65	
					G3	Don't do				eggs / larvae
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.4	3.37	30.3	7.34	P1	10.8	3.18	28.9	7.41	
					P2	10.65	3.22	29.1	7.44	
					P3	10.55	3.33	30.0	7.49	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.2	9.53	85.5	7.75	A1	11.5	10.42	91.1	7.73	
					A2	Don't do				Eggs / larvae
					A3	11.25	9.96	91.0	7.66	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.35	2.66	24.0	7.35	R1					
					X1					
					X2					
					LTB	9.65	3.41	30.1	7.40	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.2	3.50	32.1	7.46	P4	10.45	3.30	29.6	7.43	DO ↓ 9.
					P5	10.4	3.47	31.2	7.45	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.9	3.91	37.1	7.61	G4	Don't do				Says "no tank" - tank
					G5	11.55	4.09	37.6	7.52	DO ↓ 9. pH ↓ .02
<b>LHZ</b> Larval Treatment 3mg/L, 7.4 pH	12.75	10.98	100.0	7.86	R2					
					R3					
					LAB	10.3	9.50	86.4	7.79	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.25	10.71	100.4	7.81	A4	10.95	9.73	88.5	7.65	
					A5	10.95	10.36	91.5	7.66	
					MAMA	13.1	11.07	105.7	7.92	
*N2 psi/sup:					*CO2 psi/sup: 22, 525					



NO  
FISH

NO  
fish

NO  
fish

Date & Time	Name of person collecting data: <u>Quinn &amp; Sam</u>									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.1	10.22	92.7	7.59	G1	11.5	10.07	92.5	7.62	
					G2	11.6	10.00	91.9	7.62	
					G3	11.7	10.08	93.0	7.62	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.7	3.47	31.9	7.41	P1	12.6	4.78	44.5	7.37	
					P2	12.0	3.21	30.1	7.37	
					P3					Part H, in
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.1	10.31	93.7	7.59	A1	11.8	10.22	94.5	7.64	←
					A2	11.8	10.43	96.6	7.64	flow Δ
					A3	11.8	10.12	93.6	7.62	↑
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.1	3.22	30.0	7.35	R1					No fish
					X1					↓
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.6	3.36	30.9	7.47	LTB	12.2	3.32	30.9	7.35	
					P4	12.0	3.25	30.2	7.37	
					P5					No fish
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6	4.10	37.7	7.44	G4	12.2	3.89	36.4	7.47	↓ pH
					G5	12.2	3.84	35.9	7.47	↓ DO
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.1	10.23	93.0	7.57	R2					
					R3					
					LAB	11.9	10.24	94.9	7.59	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	10.26	94.4	7.61	A4	12.1	9.97	92.8	7.67	
					A5	12.1	10.05	93.1	7.67	
					MAMA	11.1	9.90	89.9	7.57	

\*N2 psi/s: > Full

\*CO2 psi/sup: 20 1600

Date & time:		Name of person collecting data: Sofia								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.5	10.60	97.0	7.66	G1	11.2	10.21	93.2	7.60	
					G2	11.2	10.62	91.0	7.57	
					G3	11.3	9.69	88.3	7.55	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.5	3.50	32.1	7.33	P1	11.2	3.74	34.0	7.38	DO ↓
					P2	11.3	3.46	31.6	7.36	
					P3					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.4	10.42	95.2	7.62	A1	11.2	10.42	94.7	7.60	
					A2	11.1	10.12	91.7	7.55	
					A3	11.1	9.55	86.6	7.53	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.1	2.83	25.6	7.25	R1					
					X1					
					X2					
					LTB	10.7	3.64	32.8	7.37	DO ↓
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.4	3.62	33.0	7.48	P4	11.1	3.70	33.6	7.38	DO ↓
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.4	4.93	45.0	7.47	G4	11.1	4.27	38.7	7.46	DO ↓
					G5	11.0	4.61	41.7	7.48	DO ↓
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.5	10.4	95.5	7.63	R2					
					R3					
					LAB	11.0	9.43	85.3	7.58	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.5	10.45	95.4	7.61	A4	11.0	9.83	88.7	7.52	
					A5	11.1	10.51	95.2	7.54	
					MAMA	12.0	11.03	102.4	7.71	
*N2 psi/sup: Full 40 psi					*CO2 psi/sup: 22 / 150 psi					

Date & time: 4/10/24 2:00					Name of person collecting data: Sofia					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.1	10.0	90.1	7.51	G1	11.2	9.96	90.1	7.52	
					G2	11.3	9.86	89.4	7.52	
					G3	11.3	9.69	87.8	7.52	
					P1	11.3	3.24	29.3	7.36	
					P2	11.3	3.26	29.5	7.36	↑ pH 0.1
					P3	11.2	3.43	31.0	7.36	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.8	10.18	91.2	7.52	A1	11.2	10.08	91.1	7.52	
					A2	11.3	9.98	90.6	7.54	
					A3	11.4	9.52	86.5	7.52	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.9	3.50	31.6	7.34	R1					
					X1					
					X2					
					LTB	12.0	3.88	35.8	7.34	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.8	3.91	35.0	7.26	P4	11.2	3.85	34.9	7.35	↓ DO
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.7	4.44	39.7	7.41	G4	11.3	4.37	39.6	7.43	DO 0.0 value
					G5	11.3	4.48	40.7	7.44	↓, no water ref p2
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.3	10.2	94.9	7.65	R2					
					R3					
					DAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.5	10.11	92.1	7.55	A4	11.5	9.79	89.3	7.55	
					A5	11.5	10.57	96.3	7.57	
					MAMA	10.8	10.74	96.2	7.53	

\*N2 psi/sup:

\*CO2 psi/sup:

Date & Time:	Name of person collecting data: Quinn + Lorenzo					Adjusted flow or set points?				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.4	10.67	99.3	7.74	G1	12.4	10.28	95.3	7.71	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.6	3.17	29.6	7.41	G2	12.2	10.20	94.7	7.68	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.3	10.74	100.0	7.74	G3	12.2	10.25	95.1	7.68	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.6	3.04	28.4	7.37	P1	11.8	3.02	23.8	7.35	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.4	4.10	38.3	7.43	P2	11.8	3.19	29.3	7.35	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.4	4.62	43.0	7.64	P3	11.6	3.31	30.3	7.37	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.0	10.38	95.5	7.69	A1					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.4	10.57	98.7	7.74	A2	12.2	10.51	97.5	7.67	
*N2 psi/sup:					A3	12.2	10.29	95.3	7.65	
					R1					
					X1					
					X2					
					LTB	11.5	3.74	34.0	7.37	
					P4	11.8	3.73	34.3	7.35	↓DO
					P5					
					G4	12.1	4.41	40.8	7.54	
					G5	12.1	4.31	39.9	7.54	
					R2					
					R3					
					LAB					
					A4	12.0	9.81	90.4	7.65	
					A5					
					MAMA	12.5	10.77	100.2	7.75	
					CO2 psi/sup: 25 / 250					

Date & Time: 11/9/24		9:50 AM		Name of person collecting data: D. 16 8540							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
GH1 Gestational 8 mg/L, 7.8- 7.9 pH					G1						
PH1 Pre-Fert 3mg/L, 7.4 pH	13.05	3.33	31.3	7.33	G2						
AH1 Ambient 8mg/L, 7.8- 7.9 pH					G3						
LH1 Larval Treatment 3mg/L, 7.4 pH					P1	12.85	2.82	26.5	7.33	pH up	
PH2 Pre-Fert 3mg/L, 7.4 pH	13.05	4.02	27.9	7.25	P2	12.85	2.93	27.4	7.35	pH up	
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	12.95	10.83	101.9	7.40	P3	12.55	3.06	28.5	7.36		
LH2 Larval Treatment 3mg/L, 7.4 pH					A1						
AH2 Ambient 8mg/L, 7.8- 7.9 pH					A2						
					A3						
					R1						
					X1						
					X2						
					LTB						
					P4	12.75	3.63	34.0	7.34	pH ↑	
					P5						
					G4	12.70	9.48	13.2	7.48	B2 O2 probe reaching	
					G5	12.65	9.66	90.1	7.46	Secondary pH control	
					R2						
					R3						
					LAB						
					A4						
					A5						
					MAMA						

\*N2 psi/sup:

\*CO2 psi/sup:



Date & Time:	Header Tank	Temp	DO (mg/L)	DO %	pH	Name of person	Adult Tank	Operating data: Dailyn		Adjusted flow or set points?
								Temp	DO (mg/L)	
4-9-24 3:37 PM	GH1 Gestational 8 mg/L, 7.8- 7.9 pH						G1			
	PH1 Pre-Fert 3mg/L, 7.4 pH						G2			
	AH1 Ambient 8mg/L, 7.8- 7.9 pH						G3			
	LH1 Larval Treatment 3mg/L, 7.4 pH						P1			
	PH2 Pre-Fert 3mg/L, 7.4 pH						P2			
	GH2 Gestational 8 mg/L, 7.8- 7.9 pH						P3			
	LH2 Larval Treatment 3mg/L, 7.4 pH						A1			
	AH2 Ambient 8mg/L, 7.8- 7.9 pH						A2			
*N2 psi/°C										
R1										
X1										
X2										
LTB										
P4										
P5										
G4										
G5										
R2										
R3										
LAB										
A4										
A5										
MAMA										

Checks for G4 & 5 after turning on last night & getting probe back  
 \*CO2 psi/sup:

Date & e: 4/8/24

3:45 PM

Name of person

ecting data: Dy 16

Date & time:		4/18/24 7:30 AM		Name of person collecting data:		Dyl					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.95	10.16	93.7	7.79	G1	11.45	9.79	89.4	7.74		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.0	3.04	28.0	7.30	G2	11.2	9.45	85.6	7.70		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.65	9.62	87.1	7.74	G3	11.25	9.59	86.9	7.72		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P1	11.35	2.99	27.1	7.37		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.7	3.07	28.1	7.24	P2						
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					P3	10.85	3.27	29.3	7.39		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					A1	11.35	9.94	90.3	7.73	low flow	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A2	10.85	9.53	85.6	7.68	to	
					A3	10.85	9.19	82.5	7.66	header	
					R1						
					X1						
					X2						
					LTB						
					P4	10.85	3.06	27.6	7.41		
					P5	10.85	2.94	26.5	7.40		
					G4	10.85	9.37	84.2	7.68	chase tanks	
					G5	10.9	9.45	84.9	7.68	No fish	
					R2						
					R3						
					LAB						
					A4						
					A5						
					MAMA	11.85	9.93	91.5	7.77		
<i>*N2 psi/sup:</i>		35;	1/2		<i>*CO2 psi/sup:</i>		24;	400			

Date & Time: 4/7/2024 3:22 pm Name of person collecting data: Harla

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.35	11.98	105.4	7.56	G1	10.75	10.97	98.3	7.56	
					G2	10.8	10.86	97.2	7.56	
					G3	10.8	10.90	97.8	7.56	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.5	3.31	29.6	7.44	P1	10.9	3.10	27.9	7.37	
					P2					
					P3	10.95	3.10	28.6	7.37	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.35	11.78	104.4	7.56	A1	10.65	11.44	102.1	7.58	
					A2	10.7	11.14	99.7	7.59	
					A3	10.85	10.88	97.7	7.58	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.4	3.53	31.4	7.32	R1					
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.5	2.99	26.6	7.48	P4	10.95	3.01	27.6	7.43	
					P5	10.95	2.84	25.5	7.41	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					G4					
					G5					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.4	11.91	105.6	7.56	R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					
					A5					
					MAMA	10.2	11.94	105.3	7.57	Bubbler turned down

\*N2 psi/s

10/112 psi

\*CO2 psi/sup: 25/490 psi

Date & time: 4-7-24 7:50am					Name of person collecting data: Dailyn					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6	8.80	80.1	7.73	<b>G1</b>	11.5	8.26	75.0	7.69	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.6	3.61	32.9	7.42	<b>G2</b>	11.4	8.25	74.6	7.70	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.5	9.31	84.7	7.73	<b>G3</b>	11.4	8.37	75.6	7.70	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.6	3.19	38.5	7.53	<b>P1</b>	11.6	3.09	28.0	7.38	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.5	3.34	39.3	7.36	<b>P2</b>	11.6	3.11	39.1	7.38	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					<b>P3</b>	11.2	3.29	29.4	7.38	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.5	8.79	79.7	7.73	<b>A1</b>	11.4	9.14	82.7	7.70	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					<b>A2</b>	11.3	9.09	81.9	7.70	
					<b>A3</b>	11.3	8.85	99.8	7.68	
					<b>R1</b>	11.6	3.11	39.1	7.38	
					<b>X1</b>	11.6	3.11	39.1	7.38	
					<b>X2</b>	11.6	3.11	39.1	7.38	
					<b>LTB</b>	10.0	3.71	32.5	7.45	pH & DO ↓
					<b>P4</b>	11.1	3.48	31.3	7.38	header down -30 off
					<b>P5</b>	11.2	3.26	29.4	7.37	
					<b>G4</b>	11.6	3.11	39.1	7.38	
					<b>G5</b>	11.6	3.11	39.1	7.38	
					<b>R2</b>	11.6	3.11	39.1	7.38	
					<b>R3</b>	11.6	3.11	39.1	7.38	
					<b>LAB</b>	10.7	8.05	71.1	7.60	
					<b>A4</b>	11.6	3.11	39.1	7.38	
					<b>A5</b>	11.6	3.11	39.1	7.38	
					<b>MAMA</b>	11.6	8.90	81.1	7.73	turned up bubbles
*N2 psi/sup: 90/1/2 fw)					*CO2 psi/sup: 80/4.0 fw)					

4/16/21

Date &amp; time: 9:30 AM

Name of person collecting data: DILAN

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.35	8.83	79.6	7.64	G1	11.4	1.26	83.8	7.67	
					G2	11.45	9.35	84.6	7.67	
					G3	11.5	9.34	84.6	7.65	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.4	3.50	31.5	7.34	P1	11.65	3.04	27.5	7.36	pH ↑ 0.01
					P2					
					P3	11.7	3.16	28.7	7.37	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.5	9.55	86.4	7.64	A1	11.65	10.35	94.1	7.69	
					A2	11.65	9.95	90.4	7.68	
					A3	11.75	9.86	89.7	7.67	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.4	3.35	30.2	7.41	R1					
					X1					
					X2					-
					LTB	11.9	3.76	33.4	7.41	DO ↓ 0.2%
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.4	3.23	29.2	7.29	P4	11.85	3.47	31.6	7.36	pH ↑ 0.02
					P5	11.85	3.22	29.4	7.34	DO ↓ 0.1%
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					G4	11.7	9.64	87.6	7.67	ch. set tanks
					G5	11.75	9.74	88.6	7.68	No fish
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.4	8.54	77.1	7.64	R2					
					R3					
					LAB	11.4	9.62	86.9	7.68	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					
					A5					
					MAMA	11.3	8.20	73.8	7.63	Bubbler ↑
*N2 psi/sup:	35	1/2			*CO2 psi/sup:	22	500			

Date & Time:	4/06/24 2150PM		Name of person collecting data:	J. Smith, Lorena							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6	8.92	81.0	7.68	<b>G1</b> 11.3 <b>G2</b> 11.2 <b>G3</b> 11.2	11.3	7.24	65.3	7.56		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.3 °C	3.37	30.3%	7.46		11.2	6.82	61.3	7.51		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.3	8.69	78.3	7.64		11.2	7.25	65.2	7.55		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.2	3.34	30.0	7.24	<b>P1</b> 11.1 °C <b>P2</b> 11.0 °C	3.17	28.4	7.36	PH ↑ 0.01 DO ↓ 0.1%		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.2	3.16	28.4	7.40	<b>P3</b> 11.0 °C	3.27	29.2%	7.36			
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.4	8.55	77.3	7.65	<b>A1</b> 11.2 <b>A2</b> 11.2 <b>A3</b> 11.2	9.19	82.7	7.58			
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.4	8.53	77.2	7.65	<b>R1</b> <b>X1</b> <b>X2</b> <b>LTB</b> 11.2	3.69	33.1	7.34	DO ↓ 0.1% PH ↑ 0.01		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.4	8.57	77.4	7.65	<b>P4</b> 11.2 <b>P5</b> 11.2	3.05	27.3	7.40	DO ↑ 0.1%		
					<b>G4</b> <b>G5</b>						
					<b>R2</b> <b>R3</b> <b>LAB</b> 11.2						
					<b>A4</b> <b>A5</b> <b>MAMA</b> 12.0						

\*N2 psi/s

35' 1/2

\*CO2 psi/sup: 25 / 500

Flows balanced (all checked P9002 before balancing)

Date & Time:	Name of person collecting data: Cathlyn & Dylan									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.75	10.86	102.6	7.83	G1	12.4	9.34	87.3	7.72	
					G2	12.25	9.23	86.1	7.71	
					G3	12.25	9.4	27.7	7.72	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.45	3.10	29.0	7.32	P1	12.0	3.10	28.7	7.35	pH ↑ 0.01
					P2					
					P3	12.0	3.26	30.2	7.35	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.7	10.73	101.0	7.81	A1	12.25	10.29	96.0	7.74	
					A2	12.25	9.82	91.5	7.73	
					A3	12.25	9.64	89.9	7.72	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.6	3.17	30.1	7.34	R1					
					X1					
					X2					
					LTB	11.5	3.76	34.4	7.38	DO ↓ 0.1%
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.4	3.26	30.9	7.35	P4	12.0	3.4	31.5	7.35	pH ↑ 0.01
					P5	12.0	3.14	29.1	7.33	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					G4					
					G5					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.7	10.63	100.4	7.82	R2					
					R3					
					LAB	11.6	9.2	84.6	7.69	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					
					A5					
					MAMA	12.85	10.99	104.1	7.84	Bubbles turned down

\*N2 psi/s

Date & time:		4/5/24 9:30 AM		Name of person collecting data:		Karin ADY/9					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.6	7.89	72.4	7.70	<b>G1</b>	12.1	8.50	78.9	7.73		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.0	3.45	32.1	7.40	<b>G2</b>	12.1	8.70	81.0	7.75		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.6	8.81	81.2	7.71	<b>G3</b>	12.15	8.74	81.4	7.76		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.05	3.34	31.1	7.44	<b>P1</b>	12.0	3.06	28.4	7.38		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.9	3.35	31.1	7.49	<b>P2</b>						
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					<b>P3</b>	11.95	3.12	29.0	7.39		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.9	8.66	80.1	7.74	<b>A1</b>	12.1	9.86	91.9	7.77		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					<b>A2</b>	12.1	9.32	86.8	7.78		
<b>*N2 psi/sup:</b> 7 1/2		<b>*CO2 psi/sup:</b> 21; 575		<b>MAMA</b> 11.75 8.41 79.5 7.53 Bubble in A5S2		<b>A3</b>	12.1	9.17	85.4	7.77	
						<b>R1</b>					
						<b>X1</b>					
						<b>X2</b>					
						<b>LTB</b>	10.95	3.77	34.2	7.44	DO 60.2%
						<b>P4</b>	12.0	3.42	31.9	7.41	
						<b>P5</b>	12.05	3.03	28.2	7.39	
						<b>G4</b>					
						<b>G5</b>					
						<b>R2</b>					
						<b>R3</b>					
						<b>LAB</b>	11.75	9.16	84.6	7.77	
						<b>A4</b>					
						<b>A5</b>					

74 - POPYE

Date & Time:	4/4/24	2pm	Name of person collecting data:	RJL						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.15	10.38	99.3	7.88	G1	12.9	9.68	92.0	7.82	
					G2	12.8	9.73	92.2	7.81	
					G3	12.8	9.70	91.9	7.81	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.25	3.12	29.9	7.34	P1	12.8	3.06	29.1	7.38	
					P2	—	—	—	—	
					P3	12.65	3.31	31.2	7.38	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.05	10.28	98.1	7.87	A1	12.8	10.46	99.3	7.83	
					A2	12.75	10.06	95.2	7.82	
					A3	12.75	9.86	73.4	7.80	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.25	3.12	29.9	7.48	R1	—	—	—	—	Dob 0.2%
					X1	—	—	—	—	
					X2	—	—	—	—	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.0	3.48	33.1	7.49	LTB	12.1	3.73	34.8	7.43	
					P4	12.4	3.56	33.6	7.38	Dob 0.2%
					P5	12.4	3.24	30.5	7.37	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	—	—	—	—	G4	—	—	—	—	
	—	—	—	—	G5	—	—	—	—	
	—	—	—	—	R2	—	—	—	—	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.2	10.37	99.3	7.87	R3	—	—	—	—	
					LAB	12.7	9.80	92.7	7.83	
					A4	—	—	—	—	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	—	—	—	—	A5	—	—	—	—	
	—	—	—	—	MAMA	13.2	10.30	98.7	7.87	
	—	—	—	—						

\*N2 psi/sup: 22 ; 600

Date & time:		Name of person collecting data: Dylan								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.25	9.17	83.6	7.63	<b>G1</b>	11.4	8.98	82.4	7.66	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.2	3.50	31.9	7.41	<b>G2</b>	11.4	9.05	83.1	7.65	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.3	9.69	88.6	7.64	<b>G3</b>	11.45	9.12	83.5	7.66	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.85	3.18	29.5	7.20	<b>P1</b>	11.35	3.21	29.5	7.38	DO↓ 0.02
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.5	3.33	30.7	7.31	<b>P2</b>	—	—	—	—	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	—	—	—	—	<b>P3</b>	11.35	3.28	30.0	7.38	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.3	9.09	11.4	7.63	<b>A1</b>	11.35	10.10	72.5	7.65	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	—	—	—	—	<b>A2</b>	11.35	9.75	89.3	7.66	
<b>*N2 psi/sup:</b> 35 ; Full					<b>A3</b>	11.45	9.61	88.3	7.67	
					<b>R1</b>	—	—	—	—	
					<b>X1</b>	—	—	—	—	
					<b>X2</b>	—	—	—	—	
					<b>LTB</b>	11.85	3.96	36.7	7.42	
					<b>P4</b>	11.7	3.47	32.1	7.35	pH↑ 0.01
					<b>P5</b>	11.7	3.28	30.3	7.33	DO↓ 0.2%
					<b>G4</b>	—	—	—	—	
					<b>G5</b>	—	—	—	—	
					<b>R2</b>	—	—	—	—	
					<b>R3</b>	—	—	—	—	
					<b>LAB</b>	11.45	9.49	87.1	7.67	
					<b>A4</b>	—	—	—	—	
					<b>A5</b>	—	—	—	—	
					<b>MAMA</b>	11.2	9.24	84.2	7.64	
<b>*CO2 psi/sup:</b> 21 ; 600										

I believe this is supposed  
to be 4/3/24

Date & Time:		4/2/24		2:00 PM		Name of person collecting data: Sophia				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.5	12.14	115.6	7.81	<b>G1</b>	13.3	11.15	105.7	7.76	<7.76
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH					<b>G2</b>	13.3	11.39	107.8	7.75	7.75
					<b>G3</b>	13.3	11.51	108.9	7.75	= 7.75
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.5	11.83	112.7	7.79	<b>P1</b>	13.3	3.75	35.5	7.38	7.38
					<b>P2</b>					
					<b>P3</b>	13.3	4.05	38.4	7.38	DO ↓
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.6	4.09	39.0	7.36	<b>A1</b>	13.3	11.09	105.1	7.75	
					<b>A2</b>	13.3	11.28	107.0	7.76	
					<b>A3</b>	13.3	11.27	106.7	7.74	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.25	31.06	7.19	<b>R1</b>	12.4	4.39	40.7	7.39	
					<b>X1</b>					
					<b>X2</b>					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.6	11.30	107.9	7.79	<b>LTB</b>	12.6	4.27	39.8	7.39	
					<b>P4</b>	13.2	3.37	31.8	7.32	
					<b>P5</b>	13.3	3.24	30.6	7.35	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.6	11.89	113.5	7.81	<b>G4</b>					
					<b>G5</b>					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					<b>R2</b>					
	13.6	12.32	117.5	7.81	<b>R3</b>					
					<b>LAB</b>	12.7	10.80	101.0	7.79	
					<b>A4</b>					
					<b>A5</b>					
					<b>MAMA</b>	13.1	11.39	107.6	7.82	

Date & Time: 4/3/24		9:00 AM		Name of person collecting data: Ann - Lorenzo						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0	10.39	93.4	7.56	<b>G1</b>	11.2	10.44	94.1	7.58	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.1	3.92	35.3		<b>G2</b>	11.2	10.55	95.5	7.58	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.0	10.47	94.2		<b>G3</b>	11.2	10.55	95.5	7.59	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.6	3.39	30.8	6.01	<b>P1</b>	11.1	3.40	30.7	7.36	87 00↓
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.1	3.51	31.7		<b>P2</b>					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0	10.36	93.0		<b>P3</b>	11.2	3.42	30.9	7.34	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.9	10.38	93.2	7.58	<b>A1</b>	11.3	10.99	99.5	7.62	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.0	10.46	94.1		<b>A2</b>	11.2	10.73	96.9	7.59	
					<b>A3</b>	11.3	10.60	95.9	7.60	
					<b>R1</b>	11.7	3.18	34.7	7.38	88 -
					<b>X1</b>					
					<b>X2</b>					
					<b>LTB</b>	11.9	3.89	35.4	7.41	
					<b>P4</b>	11.3	3.36	30.5	7.39	88 -
					<b>P5</b>	11.3	3.19	29.0	7.36	
					<b>G4</b>					
					<b>G5</b>					
					<b>R2</b>					
					<b>R3</b>					
					<b>LAB</b>					
					<b>A4</b>					
					<b>A5</b>	11.2	10.75	97.2	7.62	7.62
					<b>MAMA</b>	11.1	10.28	92.6	7.58	7.58
*N2 psi/sup: 8/41ths					*CO2 psi/sup: 20 psi / 600					

Date & Time: 4-2-24 10:52pm					Name of person collecting data: Dailyn					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.1	10.09	94.5	7.83	G1	13.6	9.94	94.3	7.83	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.4	3.27	30.9	7.17	G2	13.6	10.10	95.8	7.83	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.1	10.19	95.4	7.84	G3	13.6	10.02	95.2	7.83	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.4	3.42	32.1	7.36	P1	14.3	3.04	29.2	7.35	pH 10.01
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.3	3.50	33.0	7.46	P2	13.6	10.34	97.8	7.84	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.1	10.12	94.7	7.83	P3	13.8	3.23	32.8	7.35	adjusted, 7.84
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.1	10.14	94.9	7.83	A1	13.6	10.51	99.8	7.84	bubbling
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.1	10.24	96.0	7.84	A2	13.5	10.34	97.8	7.84	
<i>*N2 psi/ 105 / &lt; Full</i>					A3	13.5	10.19	96.3	7.84	
					R1	13.6	10.34	97.8	7.84	
					X1	13.6	10.34	97.8	7.84	
					X2	13.6	10.34	97.8	7.84	
					LTB	13.3	3.48	32.8	7.38	Dob 0.2%
					P4	13.7	3.44	32.7	7.33	DO high from F1 up
					P5	13.7	2.93	27.8	7.33	pH 10.01 DO 0.2%
					G4	13.6	10.34	97.8	7.84	
					G5	13.5	9.77	92.4	7.81	
					R2	13.6	10.34	97.8	7.84	
					R3	13.5	9.54	90.3	7.81	
					LAB	13.1	10.43	97.7	7.85	
					A4	13.6	10.34	97.8	7.84	
					A5	13.5	10.29	97.4	7.82	
					MAMA	12.9	9.83	91.4	7.81	
					CO2 psi/sup: 82 / 600 psi					

Date & Time: 4/2/24 8AM					Name of person collecting data: D. T.					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.6	6.39	7.10	7.83	<b>G1</b>	10.8	6.54	75.1	7.87	
					<b>G2</b>	10.8	6.57	73.4	7.86	
					<b>G3</b>	10.9	6.58	73.5	7.87	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.7	3.05	34.0	7.54	<b>P1</b>	10.8	3.00	33.5	7.60	Empty
					<b>P2</b>					egg release
					<b>P3</b>	10.8	3.03	33.9	7.62	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.5	6.61	73.5	7.83	<b>A1</b>					
					<b>A2</b>	10.8	6.95	77.6	7.87	
					<b>A3</b>	10.9	6.87	76.9	7.86	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.6	3.34	37.1	7.64	<b>R1</b>					
					<b>X1</b>					
					<b>X2</b>					
					<b>LTB</b>	11.3	3.48	39.2	7.64	Parturition
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.8	2.93	32.7	7.56	<b>P4</b>					
					<b>P5</b>	11.1	2.72	30.5	7.59	DO 0.5%
					<b>G4</b>					Empty
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.6	6.37	70.9	7.83	<b>G5</b>	11.0	6.54	73.3	7.85	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.6	6.41	71.2	7.83	<b>R2</b>					Empty
					<b>R3</b>	10.9	6.34	71.0	7.86	
					<b>LAB</b>	10.8	5.88	65.9	7.82	Empty
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.6	6.51	72.5	7.83	<b>A4</b>					
					<b>A5</b>	11.1	7.52	84.5	7.88	
					<b>MAMA</b>	10.4	6.21	68.7	7.84	

\*N2 psi/sup:

\*CO2 psi/sup:

DO 45%

pH: Noal's Hatch

Bubbler to main tank

Date & Time: 4/01/24 3 PM					Name of person collecting data: Dylan					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.2	10.60	100.4	7.86	G1	13.4	10.08	96.1	7.85	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.45	3.44	32.9	7.30	G2	13.4	10.16	96.8	7.85	
					G3	13.4	10.12	96.4	7.85	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.15	10.64	100.8	7.86	P1	13.45	3.12	29.6	7.32	pH ↑ 0.02
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH					P2					
					P3	13.45	3.21	30.6	7.33	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.25	3.31	31.5	7.14	A1	13.4	10.56	100.5	7.86	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.2	10.54	99.8	7.87	A2	13.4	10.33	98.3	7.85	F10 min release
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.2	10.60	100.2	7.87	A3	13.4	9.94	94.7	7.82	F10 min increase
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.2	10.61	100.5	7.87	G4					
					G5	13.4	9.83	93.6	7.82	
					R2					
					R3	13.4	9.32	88.9	7.79	
					LAB					
					A4					
					A5	13.35	10.39	98.9	7.83	
					MAMA	13.15	10.62	100.5	7.97	
*N2 psi/					*CO2 psi/sup:					
< End					22 / 625					

Date & Time:		V10124 8:30 AM		Name of person collecting data:		Dylm					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.8	9.24	85.2	7.82	G1	11.1	7.32	65.2	7.70		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.7	3.62	32.4	7.34	G2	11.1	7.12	69.2	7.68		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.7	3.62	32.4	7.34	G3	11.1	7.21	65.2	7.69		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.8	7.61	76.0	7.78	P1	10.75	3.10	27.7	7.39		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.8	7.61	76.0	7.78	P2	10.75	3.21	28.8	7.41		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.8	7.61	76.0	7.78	P3	10.75	3.45	30.9	7.39		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.7	3.68	23.1	7.38	A1	11.2	8.42	76.5	7.71		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.7	3.68	23.1	7.38	A2	10.9	7.26	65.7	7.67		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.7	3.68	23.1	7.38	A3	11.0	7.44	67.3	7.66		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.9	3.24	24.3	7.32	R1						
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.9	3.24	24.3	7.32	X1	10.75	4.19	34.7	7.46		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.9	3.24	24.3	7.32	X2	10.75	3.74	33.7	7.46		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0	7.57	68.6	7.66	LTB						
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0	7.57	68.6	7.66	P4	10.85	3.23	29.5	7.39		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.0	7.57	68.6	7.66	P5	10.85	3.06	27.5	7.57		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.1	7.63	64.2	7.71	G4						
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.1	7.63	64.2	7.71	G5	10.9	7.04	68.8	7.74		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					R2						
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					R3	10.85	6.58	59.4	7.68		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					LAB						
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4						
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A5						
					MAMA	11.7	9.13	83.8	7.79		
*N2 psi/sup: ≥ 5) < Full					*CO2 psi/sup: 21 ; 575						

Date & Time: 3/31/24 2:25 pm					Name of person collecting data: Mahlon & Dailyn					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.2	10.64	101.7	7.90	G1	13.4	10.11	97.2	7.91	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.2	3.59	34.3	7.47	G2	13.4	10.07	96.7	7.90	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.2	10.67	101.9	7.90	G3	13.4	10.29	98.9	7.90	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.2	3.18	30.6	7.36	P1	13.2	3.21	30.7	7.37	DO ↓ pH ↑
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.3	5.53	52.9	7.58	P2	13.3	3.82	36.5	7.37	bubbling
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.2	10.64	101.6	7.90	P3	13.3	3.31	31.7	7.39	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.2	10.61	101.4	7.90	R1	—	—	—	—	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	—	—	—	—	X1	13.4	3.52	33.7	7.32	lightly bubbling
					X2	13.4	3.06	29.4	7.32	
					LTB	—	—	—	—	
					P4	13.4	3.07	29.4	7.33	
					P5	13.4	2.91	27.9	7.33	
					G4	—	—	—	—	
					G5	13.3	10.25	98.4	7.88	bubbling
					R2	—	—	—	—	
					R3	13.4	9.80	94.1	7.86	
					LAB	—	—	—	—	
					A4	—	—	—	—	
					A5	—	—	—	—	
					MAMA	13.1	10.65	101.6	7.90	
*N2 psi/ 100 / > Full					*CO2 psi/sup:	24 / 610 psi				

Date & Time: 3-31-24 9:01am - 9:47am					Name of person collecting data: Dailun					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.2	10.14	94.8	7.88	<b>G1</b> <b>G2</b> <b>G3</b>	11.3	8.15	74.5	7.74	All flows adjusted to 60%
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.9	3.51	32.6	7.50		11.3	8.12	74.3	7.71	P2 set point ↓
						11.2	7.93	72.3	7.73	P3 set point ↑
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.1	10.21	95.2	7.88	<b>P1</b> <b>P2</b> <b>P3</b>	10.7	3.18	39.7	7.37	empty
						10.7	3.41	30.9	7.36	down pipe off DO set point ↓
						11.4	9.19	84.4	7.80	bubbling
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.7	3.57	32.9	7.47	<b>A1</b> <b>A2</b> <b>A3</b>	11.3	8.66	79.1	7.77	
						11.4	8.62	39.0	7.78	
						10.8	3.49	31.6	7.39	DO set point 2 ↓
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.5	3.28	30.2	7.31	<b>X1</b> <b>X2</b> <b>LTB</b>	10.8	3.4	31.0	7.30	not set up
						10.8	3.19	29.1	7.25	DO set point ↓
						11.0	3.17	28.7	7.34	pH set point ↑
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					<b>G4</b> <b>G5</b>				empty	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.0	10.05	93.4	7.87						
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					<b>R2</b>				empty	
					<b>R3</b>	11.4	8.85	75.2	7.45	
					<b>LAB</b>				not set up	
					<b>A4</b>					
					<b>A5</b>					
					<b>MAMA</b>	12.2	10.36	97.1	7.91	empty
*N2 psi/sup: 170 psi / < Full					*CO2 psi/sup: 21 / 59.5 psi					

Date & Time: 3/30/24					Name of person collecting data: Sam					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.2	7.70	71.0	7.68	<b>G1</b>	11.9	7.92	73.9	7.71	
					<b>G2</b>	11.9	7.68	74.8	7.70	
					<b>G3</b>	12.0	7.92	74.1	7.71	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.8	3.39	31.6	7.31	<b>P1</b>					No fish
					<b>P2</b>	12.1	2.88	27.1	7.30	pH↑ DO↓
					<b>P3</b>	12.2	3.13	29.5	7.32	Flow↑
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.2	8.16	75.2	7.68	<b>A1</b>	11.7	8.34	77.8	7.71	
					<b>A2</b>	11.9	8.31	77.5	7.71	
					<b>A3</b>	11.9	8.31	77.5	7.71	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.8	3.23	30.2	7.43	<b>R1</b>					No fish
					<b>X1</b>	12.2	2.58	24.3	7.28	Dosis, pH↓
					<b>X2</b>	12.4	3.03	28.6	7.31	Flow↑
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.8	3.25	30.3	7.39	<b>LTB</b>					
					<b>P4</b>	12.3	2.82	26.7	7.26	pH↑ DO↑
					<b>P5</b>	12.4	2.69	25.5	7.26	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					<b>G4</b>					Empty
					<b>G5</b>					No fish
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.2	7.29	67.0	7.64	<b>R2</b>					Empty
					<b>R3</b>	11.9	7.45	69.6	7.69	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					<b>LAB</b>					
					<b>A4</b>					Empty
					<b>A5</b>					No fish
					<b>MAMA</b>	11.1	7.45	68.3	7.67	

\*N2 psi:

35 / &lt; Full

\*CO2 psi/sup:

1625

Date & Time:		Name of person collecting data: D. Lom								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.7	10.49	100.0	7.89	<b>G1</b>	12.0	9.36	27.9	7.80	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH		3.41	32.4	7.32	<b>G2</b>	11.9	9.01	84.3	7.79	
					<b>G3</b>	11.85	9.10	83.0	7.79	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.7	10.53	100.2	7.89	<b>P1</b>	11.75	3.31	30.9	7.36	pH 40.01
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH		3.24	30.7	7.54	<b>P2</b>	11.35	3.20	29.5	7.36	DO + 0.5%
					<b>P3</b>	11.3	3.34	30.8	7.37	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.3	3.14	29.6	7.27	<b>A1</b>	-	-	-	-	eggs release
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					<b>A2</b>	11.95	9.78	91.9	7.81	flows
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH		10.55	2	7.90	<b>A3</b>	11.95	9.11	85.4	7.71	fixed
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					<b>R1</b>	11.3	3.38	31.2	7.42	Observing change
					<b>X1</b>	11.35	3.54	32.7	7.44	for pH
					<b>X2</b>	11.4	3.52	32.5	7.46	
					<b>LTB</b>	-	-	-	-	
					<b>P4</b>	11.4	3.14	29.0	7.37	
					<b>P5</b>	11.4	3.04	28.1	7.37	
					<b>G4</b>	-	-	-	-	
					<b>G5</b>	-	-	-	-	
					<b>R2</b>	-	-	-	-	
					<b>R3</b>	11.7	8.11	75.5	7.72	Flow fixed
					<b>LAB</b>	-	-	-	-	
					<b>A4</b>	-	-	-	-	
					<b>A5</b>	-	-	-	-	
					<b>MAMA</b>	12.65	10.62	10.0	7.85	
*N2 psi/sup:					*CO2 psi/sup:					
<Fn 11					21, 600					

Date & Time: 3/29/24 2:30					Name of person collecting data: Madison					Adjusted flow or set points?
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.05	7.89	72.3	7.89	<b>G1</b>	11.00	8.34	77.4	7.93	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.45	3.42	31.6	7.54	<b>G2</b>	12.05	8.50	80.0	7.95	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.05	7.87	75.0	7.87	<b>G3</b>	11.65	8.26	76.6	7.94	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.7	3.15	29.2	7.41	<b>P1</b>	11.95	3.16	29.5	7.54	pH ↓ .01
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.7	3.01	28.0	7.49	<b>P2</b>	12.15	3.02	28.4	7.51	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.3	7.56	69.5	7.76	<b>P3</b>	12.0	3.28	30.6	7.54	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.1	7.82	71.7	7.84	<b>A1</b>	11.5	8.63	79.7	7.93	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.1	8.02	73.6	7.84	<b>A2</b>	11.5	8.58	79.4	7.95	
					<b>A3</b>	11.6	8.37	77.6	7.92	
					<b>R1</b>	12.15	2.860	26.8	7.55	DO ↑ .5%
					<b>X1</b>	-	-	-	-	pH ↓ .01
					<b>X2</b>	-	-	-	-	
					<b>LTB</b>	-	-	-	-	
					<b>P4</b>	12.0	3.15	29.4	7.56	pH ↓ .01
					<b>P5</b>	12.2	3.03	28.5	7.49	
					<b>G4</b>	NO H <sub>2</sub> O	Water	Benzo		
					<b>G5</b>	12.2	9.16	88.8	7.99	
					<b>R2</b>	NO H <sub>2</sub> O → Benzo				
					<b>R3</b>	11.6	7.85	72.8	7.93	
					<b>LAB</b>	-	-	-	-	
					<b>A4</b>	NO H <sub>2</sub> O → Benzo				
					<b>A5</b>	11.65	9.16	89.6	7.97	
					<b>MAMA</b>					
*N2 psi/					*CO2 psi/sup: 600 psi / 20					

3129124 7:45

Date & Time:		Name of person collecting data: Marion								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	9.85	6.75	59.7	7.70	<b>G1</b>	9.85	6.12	54.2	7.70	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	9.8	3.99	35.3	7.51	<b>G2</b>	9.85	6.07	53.7	7.70	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	9.85	7.72	64.3	7.68	<b>G3</b>	9.85	6.21	55.0	7.70	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.75	3.66	33.1	7.63	<b>P1</b>	10.0	3.46	30.7	7.48	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.40	3.31	29.6	7.41	<b>P2</b>	10.0	3.11	27.6	7.47	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.40	8.16	73.3	7.77	<b>P3</b>	10.0	3.38	30.0	7.42	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.35	8.08	72.4	7.76	<b>A1</b>	9.8	6.94	61.3	7.01	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.2	7.90	70.5	7.73	<b>A2</b>	9.8	6.86	60.6	7.61	
					<b>A3</b>	9.8	6.73	59.5	7.60	
					<b>R1</b>	10.0	3.22	28.7	7.53	Dab 5%
					<b>X1</b>	10.0	3.55	31.5	7.51	+41.001
					<b>X2</b>	10.0	3.46	30.7	7.49	
					<b>LTB</b>					
					<b>P4</b>	10.0	3.54	31.9	7.45	Dab 05
					<b>P5</b>	10.0	3.33	29.7	7.52	-41.005
					<b>G4</b>	9.85	6.24	55.2	7.72	
					<b>G5</b>	9.85	6.35	56.1	7.60	
					<b>R2</b>	9.95	7.81	69.1	7.68	
					<b>R3</b>	9.95	5.95	52.9	7.67	
					<b>LAB</b>					
					<b>A4</b>	9.95	8.97	79.5	7.60	
					<b>A5</b>	9.95	8.59	70.2	7.71	
					<b>MAMA</b>	11.55	10.12	93.3	7.90	
*N2 psi/sup:					*CO2 psi/sup:					



Date & Time:		Name of person collecting data: @ann							Adjusted flow or set points?	
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.7	10.59	101.4	8.19	<b>G1</b>	13.4	9.09	95.0	8.11	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.29	31.4	7.65	<b>G2</b>	13.3	9.63	91.4	8.09	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.7	10.64	101.9	8.14	<b>G3</b>	13.3	9.75	92.3	8.09	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.4	3.30	31.3	7.56	<b>P1</b>	13.2	3.23	30.6	7.62	↓ pH
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.5	3.05	26.8	7.55	<b>P2</b>	12.8	3.19	29.9	7.60	↓ DO
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.7	10.60	101.4	8.13	<b>P3</b>	12.6	3.33	31.1	7.61	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.5	10.61	101.3	8.13	<b>A1</b>	13.5	10.44	99.5	8.11	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.5	10.61	101.2	8.10	<b>A2</b>	13.4	10.21	97.1	8.03	
					<b>A3</b>	13.3	9.64	91.0	8.03	
					<b>R1</b>	12.7	3.24	30.5	7.57	↓ pH
					<b>X1</b>	12.7	3.61	33.8	7.56	↓ DO
					<b>X2</b>	12.7	3.65	34.0	7.58	
					<b>LTB</b>	12.7	3.22	30.2	7.57	
					<b>P4</b>	12.9	3.67	29.0	7.59	↓ pH
					<b>P5</b>	12.9	2.88	27.0	7.65	
					<b>G4</b>	12.9	9.35	88.2	8.08	
					<b>G5</b>	12.9	9.52	89.7	8.08	
					<b>R2</b>	12.9	9.08	85.3	8.04	
					<b>R3</b>	12.3	8.75	82.0	7.95	
					<b>LAB</b>					
					<b>A4</b>	12.8	9.39	90.2	8.07	
					<b>A5</b>	12.8	10.23	92.0	8.08	bubbles from tank
					<b>MAMA</b>	13.7	10.58	101.2	8.18	

\*N2 psi/sup: Full 180 psi

\*CO2 psi/sup: 21 / 600 psi

Date & Time:		3/27/24		4:00 PM		Name of person collecting data: Queen					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.9	6.57	58.8	7.71	G1	11.3	6.96	63.0	7.74	↑	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.2	4.49	40.4	7.43	G2	11.3	6.62	60.2	7.67	↓ Create	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.8	6.98	64.3	7.69	G3	11.5	6.98	63.4	7.73	↔ Flow & DO	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.2	3.95	35.7	7.58	P1	11.5	3.42	31.1	7.38	↑	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.4	3.04	27.6	7.27	P2	11.3	3.10	28.5	7.36	Flow D	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.8	6.46	58.0	7.68	P3	11.8	3.07	29.9	7.39	↓	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.8	6.98	57.9	7.68	R1	12.0	3.46	31.8	7.43	↓ DO	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.0	6.63	59.6	7.70	X1	12.0	3.90	35.9	7.45		
<i>*N2 psi/</i>		<i>Foul</i>		<i>LAB</i>		X2	11.9	3.92	36.0	>49	
						G4	11.6	6.80	61.9	7.71	
						G5	11.5	7.04	64.0	7.70	
						R2	11.6	6.40	58.5	7.65	
						R3	11.5	6.14	55.9	7.65	
						A4	12.0	7.00	64.4	7.72	↑ Flow A
						A5	12.8	8.89	83.0	7.83	↓
						MAMA	10.5	6.19	57.7	7.67	
						*CO2 psi/sup: 600 psi					

Date & Time:	3/27/24	10:38	Name of person collecting data:	Quinn							Adjusted flow or set points?
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH		
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.1	9.01	84.7	7.85	G1	13.1	9.06	85.6	7.86		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.0	3.14	29.6	7.44	G2	13.1	9.11	85.6	7.86		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.1	9.22	86.7	7.85	G3	13.1	9.13	86.1	7.86		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.0	4.36	41.1	7.45	P1	12.9	5.84	54.8	7.56	4 hr 16 min	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.0	3.13	29.5	7.45	P2	13.1	5.01	47.1	7.44	1 hr 45 min	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.0	8.98	84.3	7.85	P3	13.1	5.03	47.3	7.44	4 hr 16 min	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.0	3.08	34.0	7.85	A1	12.9	9.77	91.5	7.88	1 hr 51 min	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.0	9.09	85.4	7.85	A2	13.0	9.30	87.5	7.86		
					A3	13.0	9.30	87.5	7.86		
					R1	12.9	5.64	53.1	7.56		
					X1	12.9	5.99	56.1	7.56		
					X2	12.9	5.84	54.8	7.56		
					LTB	22.2	22.2	22.2	22.2		
					P4	12.9	5.20	48.7	7.55		
					P5	12.9	5.23	51.2	7.56		
					G4	13.0	9.16	86.1	7.86		
					G5	13.0	9.03	85.0	7.86		
					R2	12.9	7	7	7		
					R3	12.9	7	7	7		
					LAB	12.9	7	7	7		
					A4	13.0	5.95	54.6	7.84		
					A5	13.0	5.44	56.6	7.84		
					MAMA	12.9	9.30	86.9	7.87		

\*N2 psi/sup: Full

\*CO2 psi/sup:

Add 16oz of CO<sub>2</sub> system rest at m 9:10 AM

Date & Time: 3/26/24 7:29 pm		Name of person collecting data: Jasmin								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.85°C	10.59	97.2%	7.71	G1	12.5°C	10.34	96.3%	7.75	
					G2	12.5°C	10.37	96.5%	7.75	
					G3	12.55°C	10.40	96.9%	7.76	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.4°C	3.01	27.9%	7.38	P1	12.6°C	3.26	30.4%	7.40	
					P2	12.85°C	3.04	28.6%	7.40	
					P3	12.85°C	3.11	29.1%	7.40	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.85°C	10.74	98.4%	7.70	A1					
					A2	12.15°C	10.56	97.6%	7.73	
					A3	12.25°C	10.40	96.5%	7.73	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.1°C	2.87	26.5%	7.27	R1	12.95°C	2.91	27.4%	7.38	
					X1					
					X2	12.8°C	2.87	26.9%	7.36	
					LTB					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.1°C	3.45	31.9%	7.50	P4	12.9°C	3.04	28.6%	7.42	
					P5	12.75°C	3.17	29.7%	7.47	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.65°C	10.74	98.1%	7.71	G4	12.5°C	10.45	97.2%	7.75	
					G5	12.5°C	10.35	96.3%	7.75	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.65°C	10.73	98.0%	7.71	R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.85°C	10.69	98.2%	7.70	A4	12.5 °C	10.09	94.0%	7.73	
					A5	12.75°C	10.21	95.6%	7.76	
					MAM	11.55°C	10.75	98.0%	7.71	
*N2 psi/s	1/7	34.05			CO2 psi/sup:					

Date & Time:		8:30 AM		Name of person collecting data:		DILAN				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.65	10.63		7.96	G1	13.55	10.07		7.93	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.7	2.68	25.8	7.36	G2	13.5	10.18		7.94	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.6	10.68		7.96	G3	13.55	10.32		7.95	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.55	3.06	29.2	7.41	P1	13.45	3.09	29.4	7.41	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.65	3.28	31.3	7.45	P2	13.2	3.03	28.6	7.41	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.6	10.63		7.96	P3	13.1	3.09	29.1	7.42	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.55	10.64		7.96	A1					egg release
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.55	10.63		7.96	A2					
					A3	13.45	10.09		7.96	
					R1	13.15	3.66	31.6	7.56	DO↓ 2%
					X1	12.95	3.46	32.5	7.50	PH↓ 0.02
					X2					
					LTB					
					P4	13.2	3.19	30.2	7.42	DO↓ 0.3%
					P5	13.15	3.34	31.5	7.43	
					G4	13.3	10.19		7.93	
					G5	13.3	10.11		7.91	
					R2					
					R3					
					LAB					
					A4	12.95	9.79		7.88	
					A5	12.95	9.93		7.89	
					MAMA	13.6	10.69		7.96	

\*N2 psi/sup: 1/2

\*CO2 psi/sup: 20/600

Flows  
re-  
balanced



Date & Time: 3/25/24 3:02 pm					Name of person collecting data: Dylan, Jasmin, & Neill					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.35 °C	10.13	92.5%	7.79	G1	12.65 °C	9.66	90.7%	7.80	
					G2	12.65 °C	9.73	91.2%	7.79	
					G3	12.75 °C	9.80	92.2%	7.80	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.7 °C	3.37	31.6%	7.54	P1	12.95 °C	3.08	29.1%	7.40	
					P2	12.95 °C	2.91	27.6%	7.41	
					P3	13.05 °C	3.02	28.6%	7.41	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.45 °C	10.28	94.1%	7.72	A1					
					A2	12.4 °C	9.94	92.7%	7.78	
					A3	12.5 °C	9.78	91.5%	7.78	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.45 °C	3.91	29.8%	7.32	R1	13.1 °C	3.57	33.8	7.42	DO ↓ 1%
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.45 °C	3.45	32.1%	7.65	P4	12.95 °C	3.13	29.6%	7.45	DO ↓ 0.3%
					P5	12.95 °C	3.19	30.1%	7.44	pH ↓ 0.01
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.65 °C	10.14	92.8%	7.73	G4	13.05 °C	9.56	90.4%	7.80	
					G5	13.0 °C	9.51	89.9%	7.80	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.65 °C	10.11	92.7%	7.74	R2					
					R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.1 °C	10.05	93.1%	7.74	A4	12.95 °C	9.38	88.5%	7.79	
					A5	12.95 °C	9.50	89.7	7.80	
					MAMA	11.2 °C	10.14	92.0%	7.69	
*N2 psi/s	35 psi	1/2			CO2 psi/sup:					

Date & Time: 3/23/2024 9:20 a.m.		Name of person collecting data: Neil								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.85	10.40	98.1	7.87	G1	13.3	10.37	98.9	7.91	
					G2	13.35	10.45	99.4	7.91	
					G3	13.4	10.45	99.7	7.92	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.09	29.6	7.50	P1	13.6	3.23	30.9	7.46	Dob 0.5%
					P2	13.45	3.12	29.7	7.45	<del>pH</del> ↓ 0.01
					P3	13.35	3.18	30.2	7.46	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.9	10.62	100.1	7.89	A1	13.3	10.66	101.5	7.93	
					A2	13.3	10.43	99.2	7.91	
					A3	13.3	10.34	98.4	7.91	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.35	3.57	34.0	7.50	R1	13.35	5.25	50.1	7.53	<del>pH</del> ↓ 0.03 Dob 2%
					X1					
					X2	13.15	3.88	36.8	7.48	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.4	3.26	31.1	7.42	LTB					
					P4	13.4	3.21	30.6	7.44	Dob 0.5%
					P5	13.4	3.31	31.5	7.44	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.85	10.42	98.1	7.87	G4	13.25	10.42	99.1	7.91	
					G5	13.25	10.32	98.1	7.91	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					R2					
	12.9	10.87	102.4	7.87	R3					
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4	13.25	10.22	97.1	7.90	
	12.95	10.45	98.6	7.87	A5	13.15	10.25	97.2	7.88	
					MAMA	12.85	10.22	96.4	7.87	
*N2 psi/sup:					*CO2 psi/sup: 600/20					

Date & Time:		3/24/2024 2:29pm		Name of person collecting data: Karla						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.85	10.75	99.6	7.76	G1	11.7	10.45	96.5	7.71	
					G2	11.65	10.52	96.8	7.71	
					G3	11.65	10.52	97.1	7.71	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.75	3.24	31.4	7.42	P1	12.75	3.44	37.5	7.45	DO ↓
					P2	12.6	3.30	31.0	7.43	
					P3	12.5	3.40	31.9	7.45	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.5	10.33	99.3	7.74	A1	11.5	10.45	96.5	7.71	
					A2	11.6	10.65	98.1	7.73	
					A3	11.6	10.48	96.6	7.71	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.65	3.50	33.7	7.62	R1	12.6	3.71	34.9	7.48	DO & pH ↓
					X1	11.5	3.50	33.7	7.62	
					X2	11.5	3.50	33.7	7.62	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.55	3.36	32.3	7.35	LTB	12.55	3.34	31.5	7.45	DO & pH ↓
					P4	12.55	3.34	31.5	7.45	DO & pH ↓
					P5	12.5	3.42	32.1	7.47	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.55	10.86	102.2	7.84	G4	12.1	10.54	98.2	7.76	
					G5	12.1	10.35	96.5	7.75	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.35	10.95	100.2		R2	11.35	10.95	100.2	7.71	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.0	10.84	103.2	7.87	R3	11.35	10.95	100.2	7.71	
					LAB	11.35	10.95	100.2	7.71	
					A4	19.9	7.28	69.1	7.164	
*N2 psi/s					A5	12.9	6.62	62.7	7.165	bubble dam blown
					MAMA	14.15	10.72	104.8	7.99	out *
					CO2 psi/sup:					

Date & Time: 3-24-24 8:20am					Name of person collecting data: Dailey-Nicole					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.9	10.74	103.8	7.99	G1	13.9	9.68	93.8	8.08	
					G2	13.9	10.41	100.8	8.05	
					G3	13.9	10.52	101.8	8.06	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.9	3.26	31.7	7.61	P1	14.0	3.09	30.0	7.53	pH setpoint ↓
					P2	13.9	3.03	29.3	7.56	
					P3	13.8	3.15	30.5	7.60	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.9	10.74	104.0	8.01	A1					Empty
					A2	13.9	10.56	102.1	8.13	
					A3	13.9	10.41	100.8	8.03	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.9	3.26	31.7	7.63	R1	13.9	2.96	28.7	7.65	pH setpoint ↓
					X1					Isolating
					X2					Isolating
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.9	3.52	34.2	7.68	LTB					
					P4	13.8	3.36	32.5	7.56	pH + DO set point ↓
					P5	13.8	3.50	33.8	7.64	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.9	10.72	103.7	7.98	G4	13.9	10.46	101.2	8.17	
					G5	13.9	10.37	100.3	8.02	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.8	10.78	104.0	7.99	R2					Isolating
					R3					Isolating
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.7	10.75	103.5	7.96	LAB					
					A4	12.9	7.47	70.8	7.72	
					A5	12.7	7.07	66.6	7.77	
					MAMA	13.9	10.77	104.2	8.10	

\*CO2 psi/sup: 21/1000psi

\*N2 psi/sup: 150psi 1/2 Full

Date & Time:		3/23/24 2:00pm		Name of person collecting data:		Lorenzo, Jasmin, & Dylan		Adjusted flow or set points?		
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	11.8 °C	10.37	95.8%	7.66	G1	12.1 °C	10.12	93.3%	7.66	
PH1 Pre-Fert 3mg/L, 7.4 pH	11.7	3.66	33.7	7.37	G2	12.1 °C	10.15	94.7%	7.68	
AH1 Ambient 8mg/L, 7.8- 7.9 pH	11.6 °C	10.58	97.3%	7.77	G3	12.1 °C	10.14	94.4%	7.68	
LH1 Larval Treatment 3mg/L, 7.4 pH	11.7	3.36	31.0	7.49	P1	12.0	3.25	30.1	7.42	
PH2 Pre-Fert 3mg/L, 7.4 pH	11.6 °C	3.90	35.9%	7.52	P2	12.0	3.25	30.2	7.42	↓ DO 1%
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	11.6	10.50	96.5	7.72	P3	12.0	3.39	31.4	7.44	
LH2 Larval Treatment 3mg/L, 7.4 pH	11.5	10.52	96.7	7.71	A1					Empty
AH2 Ambient 8mg/L, 7.8- 7.9 pH *N2 psi/s	11.5 °C	10.54	97.0%	7.71	A2	11.9 °C	10.23	94.8%	7.67	
					A3	11.9 °C	10.09	93.6%	7.67	
					R1	12.0	3.27	30.3	7.44	↓ DO 1%
					X1	12.0	3.54	32.5	7.44	1/3 bubbling fixed
					X2	12.1	4.39	40.7	7.44	1/3 bubbling fixed
					LTB					
					P4	12.1	3.53	32.9	7.44	
					P5	12.1	3.64	33.8	7.44	↓ DO 1%
					G4	11.9 °C	10.09	94.0%	7.80	
					G5	12.0 °C	9.99	93.1%	7.71	
					R2	11.8 °C	10.13	93.9%	7.72	1/3
					R3	11.8 °C	10.16	94.0%	7.73	1/3
					LAB					
					A4	12.3 °C	9.41	88.0%	7.70	
					A5	12.4 °C	9.88	97.8%	7.90	
					MAMA	11.6 °C	10.49	96.6%	7.75	
								CO2 psi/sup:	23.650	



Date & Time:		Name of person collecting data:		Quinn		Adjusted flow or set points?					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH		
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	11.2°C	9.82	89.2%	7.64	G1	11.9°C	8.42	78.0%	7.64		
PH1 Pre-Fert 3mg/L, 7.4 pH	11.3°C	3.77	34.3%	7.37	G2	11.9°C	8.66	79.9%	7.64		
AH1 Ambient 8mg/L, 7.8- 7.9 pH	11.2°C	9.85	89.4%	7.66	G3	12.0°C	8.60	79.6%	7.64		
LH1 Larval Treatment 3mg/L, 7.4 pH	11.3°C	3.08	28.0%	7.46	P1	11.6°C	3.37	30.7%	7.41	* ↓DO .02	
PH2 Pre-Fert 3mg/L, 7.4 pH	11.3°C	3.27	29.8%	7.53	P2	11.9°C	3.30	30.5%	7.41		
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	11.3°C	10.05	91.4%	7.63	P3	11.9°C	3.41	31.5%	7.41		
LH2 Larval Treatment 3mg/L, 7.4 pH	11.1°C	10.04	91.0%	7.63	A1	11.7°C	9.15	84.1%	7.66		
AH2 Ambient 8mg/L, 7.8- 7.9 pH	11.4°C	9.75	88.9%	7.64	A2	11.7°C	8.74	80.2%	7.66		
*N2 psi/s		slightly below tank		LAB		R1	11.7°C	3.02	27.8%	7.39	
						X1	11.9°C	2.60	24.0%	7.40	
						X2	11.9°C	2.74	25.4%	7.40	
						LTB	11.9°C	2.74	25.4%	7.40	
						P4	12.0°C	3.42	31.6%	7.41	* ↓DO .02
						P5	12.0°C	3.59	33.1%	7.41	
						G4	11.9°C	8.58	79.2%	7.64	
						G5	11.9°C	8.47	78.2%	7.64	
						R2	11.9°C	8.58	79.2%	7.64	
						R3	11.6°C	8.83	81.1%	7.63	
						LAB	11.9°C	8.58	79.2%	7.64	
						A4	11.7°C	8.48	78.0%	7.61	
						A5	12.0°C	9.12	84.5%	7.66	
						MAMA	11.0°C	10.20	92.3%	7.64	
						CO2 psi/sup: 600 ft / 0.9m					

Date & Time:		9:37 am		Name of person collecting data: Karla & Dylan							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.1	7.12	81.7	7.98	G1	12.6	7.36	85.3	8.04		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.3	3.47	39.9	7.65	G2	12.5	7.55	87.5	8.06		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.1	7.34	84.2	7.98	G3	12.6	7.60	88.1	8.05		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.2	2.84	32.7	7.43	P1	12.7	3.08	35.8	7.6		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.3	3.34	38.4	7.67	P2	12.7	3.08	35.8	7.64		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.1	7.07	81.0	7.96	P3	12.8	3.12	30.3	7.65		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.1	7.10	81.4	7.96	A1	12.4	7.70	88.8	8.00	Oil Release	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.2	7.19	82.5	7.97	A2					*	
<i>*N2 psi/sup:</i>		<i>R1</i>		<i>X1</i>		<i>X2</i>		<i>LTB</i>		<i>P4</i>	

Date & Time:	3/21/24		9 AM	Name of person collecting data:	Quinn					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.6	8.59	79.9	3.00	G1	12.6	8.81	82.1	7.79	↑
					G2	12.6	8.86	82.6	7.89	
					G3	12.6	8.88	82.9	7.80	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.6	3.58	33.4	7.96	P1	12.9	3.40	32.0	7.42	↓ DO
					P2	12.8	3.33	31.1	7.43	
					P3	12.7	3.23	30.7	7.79	[ ] flows
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.5	8.76	81.5	7.84	A1	12.6	8.18	85.1	7.12	
					A2	12.6	8.99	83.9	7.79	
					A3	12.6	8.94	83.5	7.86	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.6	2.88	26.9	7.70	R1	12.7	3.34	31.2	7.64	↓ pH
					X1	12.7	2.55	23.8	7.48	
					X2	12.7	2.47	23.0	7.70	
					LTB	12.7	2.22	22.2	7.70	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.7	3.66	31.1	7.69	P4	12.7	3.07	20.5	7.53	↓ pH
					P5	12.7	2.97	20.5	7.53	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.5	8.47	78.9	7.95	G4	12.7	8.86	82.9	7.80	
					G5	12.7	8.82	82.5	8.02	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.7	8.53	79.3	7.85	R2	12.7	2.22	22.2	7.85	
					R3	12.7	8.65	80.7	7.85	
					LAB	12.7	2.22	22.2	7.85	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.7	8.57	80	7.80	A4	12.6	8.33	80.5	7.80	
					A5	12.6	8.25	80.6	7.80	
					MAMA	12.5	8.47	78.8	7.84	
*N2 psi/sup:	1.11	bottom	CA	230 psig	*CO2 psi/sup:	21 psig	600 psig			

Date & Time: 3/21/24 2:00pm		Name of person collecting data: Jasmin & Quinn								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.8 °C	9.85	90.3%	7.70	G1	12.3 °C	8.37	77.5%	7.66	
					G2	12.1	8.41	77.9%	7.66	
					G3	12.1	8.51	78.5%	7.66	
					P1	12.2 °C	3.24	30.0%	7.42	
					P2	12.2 °C	3.31	30.0%	7.43	
					P3	12.2 °C	3.41	31.3%	7.43	
					A1	12.0 °C	9.28	85.5%	7.67	
					A2	12.0 °C	8.86	81.5%	7.66	
					A3	12.1 °C	8.81	81.1%	7.66	
					R1	12.3 °C	3.14	29.1%	7.35	↗
					X1	12.4 °C	7.39	22.1%	7.35	↑ DO
					X2	12.3 °C	2.49	23.1%	7.35	
					LTB					
					P4	12.1 °C	3.37	31.1%	7.43	
					P5	12.1 °C	3.40	31.4%	7.43	
					G4	12.0 °C	8.12	74.8%	7.65	
					G5	12.0 °C	8.17	75.2%	7.65	
					R2					
					R3	12.0 °C	8.04	74.1%	7.64	
					LAB					
					A4	12.0 °C	8.27	76.1%	7.66	
					A5	12.1 °C	9.05	83.6%	7.66	
					MAMA	13.4 °C	10.42	99.2%	7.85	
					CO2 psi/sup:					
*N2 psi/s					slightly low from 2.30 psi					

Date &amp; Time: 3/20/24 7:00

Name of person collecting data: Sora

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.2	10.60	102.7	7.89	G1	13.5	9.11	86.9	7.75	
					G2	13.3	8.72	82.9	7.73	
					G3	13.3	9.03	85.9	7.72	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.0	4.15	40.0	7.51	P1	13.3	3.57	33.9	7.43	DO ↓
					P2	13.2	3.45	32.7	7.41	
					P3	13.1	3.27	31.0	7.40	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1	6.68	64.8	7.89	A1	13.6	9.85	94.3	7.81	
					A2	13.5	9.26	88.3	7.76	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.0	3.06	29.5	7.59	R1	13.2	3.33	31.5	7.42	✓
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.9	3.29	31.8	7.33	P4	13.4	3.88	37.0	7.45	DO ↓
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.19	98.9	7.91	G4	13.4	9.06	86.3	7.78	
					G5	13.4	9.19	87.6	7.78	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.3	10.64	103.5	7.93	R2					
					R3	13.6	9.23	88.2	7.76	
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.3	10.80	105.1	7.93	A4	13.4	9.50	90.6	7.80	
					A5	13.4	9.71	92.5	7.78	
					MAMA	14.4	11.04	107.5	7.96	

\*N2 psi/s

CO2 psi/sup:

Date & Time: 3/20/24 9:30 AM					Name of person collecting data: Larissa Cunn					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.3	8.01	72.9	7.66	G1	11.5	8.05	73.5	7.72	
					G2	11.5	7.82	71.4	7.72	
					G3	11.5	7.79	71.0	7.71	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.0	4.05	36.6	7.40	P1	11.6	3.28	30.0	7.49	← ↓ pH
					P2	11.5	3.38	30.8	7.50	
					P3	11.5	3.17	28.9	7.45	←
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.0	7.73	69.6	7.65	A1	11.4	8.25	75.3	7.76	
					A2	11.6	8.05	73.7	7.68	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.9	6.02	54.3	7.65	R1	11.5	3.84	35.1	7.64	*CO2 psi/sup: 20 psi / 600 psi ↑ pH
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.0	3.81	34.4	7.66	LTB					
					P4	11.6	3.11	28.5	7.44	~
					P5					
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.9	7.34	66.1	7.67	G4	11.5	7.36	67.2	7.63	
					G5	11.5	7.55	69.0	7.64	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.9	7.34	66.0	7.67	R2					
					R3	11.4	7.24	65.9	7.62	
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.9	7.49	67.5	7.68	A4	11.3	7.77	70.6	7.66	
					A5	11.4	8.43	76.7	7.66	
					MAMA	10.9	7.45	67.1	7.63	
*N2 psi/sup: Full					*CO2 psi/sup: 20 psi / 600 psi					

Date & Time: 3/14/24 3:20 PM					Name of person collecting data: Dylan & Jason					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.3	10.84	105.6	7.94	<b>G1</b>	14.7	10.68	104.7	7.94	S
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.8	4.07	39.9	7.52	<b>G2</b>	14.7	10.39	102.0	7.91	S
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.3	10.60	103.1	7.94	<b>G3</b>	14.7	10.13	99.4	7.90	S
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.6	3.51	37.2	7.35	<b>P1</b>	14.7	3.27	32.0	7.42	DOL 0.5%
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.6	3.66	35.8	7.21	<b>P2</b>	14.6	3.18	31.0	7.11	S
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.5	10.77	105.0	7.97	<b>P3</b>	14.6	3.15	30.7	7.40	S
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.5	10.85	105.7	7.95	<b>A1</b>	14.7	10.01	98.0	7.90	S
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.5	10.88	106.1	7.99	<b>A2</b>	14.6	9.81	95.8	7.87	S
*N2 psi/s					<b>A3</b>	14.6	9.80	95.7	7.87	S
					<b>R1</b>	14.6	3.41	33.4	7.29	PHT0.3 Dab 2%
					<b>X1</b>	14.8	4.91	48.1	7.31	CO2 pressure
					<b>X2</b>					
					<b>LTB</b>					
					<b>P4</b>	14.6	3.29	32.1	7.39	DOL 1%
					<b>P5</b>					0.11 reluse
					<b>G4</b>	14.3	9.76	95.1	7.88	PHT0.01 CO2 pressure down
					<b>G5</b>	14.3	10.09	98.3	7.91	S
					<b>R2</b>	14.5	10.41	101.6	7.88	S
					<b>R3</b>	14.3	9.60	93.3	7.86	S
					<b>LAB</b>					
					<b>A4</b>	14.5	10.24	100.0	7.92	S
					<b>A5</b>	14.5	10.27	100.1	7.92	S
					<b>MAMA</b>	14.1	10.51	101.8	7.94	
					CO2 psi/sup: 23 / 675					

Date & Time:		Name of person collecting data:								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or se points?
GH1 Gestational 8 mg/L, 7.8- 7.9 pH					G1	11.8	8.39	77.0	7.68-	
PH1 Pre-Fert 3mg/L, 7.4 pH					G2	11.8	8.33	76.5	7.68	
AH1 Ambient 8mg/L, 7.8- 7.9 pH					G3	11.85	8.19	75.8	7.68	
LH1 Larval Treatment 3mg/L, 7.4 pH					P1	12.2	3.41		7.48	
PH2 Pre-Fert 3mg/L, 7.4 pH					P2	12.05	3.27	30.1	7.48	
GH2 Gestational 8 mg/L, 7.8- 7.9 pH					P3	12.95	3.28		7.48	
LH2 Larval Treatment 3mg/L, 7.4 pH					A1	11.8	8.35	76.8	7.66	bubbly
AH2 Ambient 8mg/L, 7.8- 7.9 pH					A2	11.9	7.99	73.5	7.67	
					A3	11.9	8.04	73.9	8.67	
					R1	11.95	3.48	32.0	7.43	
					X1	12.05	4.67	43.0	7.45	bubbly
					X2					
					LTB					
					P4	11.95	3.22	29.7	7.48	
					P5	11.95	3.18	29.2	7.48	
					G4	11.95	7.91	72.9	7.67	
					G5	11.85	8.24	75.8	7.68	
					R2	11.85	8.84	81.2	7.69	bubbly
					R3	11.8	8.00	73.4	7.66	
					LAB					
					A4	11.85	8.17	75.0	7.67	
					A5	12.0	9.40	26.5	7.89	bubbly
					MAMA					
*N2 psi/sup:		*CO2 psi/sup: 15/650						↑ from up to 20		

16.6° 8.34 pH

Date & Time:		Name of person collecting data:									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.05	9.94	95.8	7.92	G1	14.6	10.22	99.9	7.94		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.3	3.74	353	7.53	G2	14.6	10.08	98.6	7.92		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.0	10.09	97.6	7.92	G3	14.6	9.95	97.2	7.92		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.2	4.52	48.9	7.53	P1	14.0	2.93	28.3	7.44	D01	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.35	3.54	33.8	7.34	P2	14.05	2.61	25.2	7.43		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.7	9.64	92.6	7.90	P3	14.0	2.65	25.5	7.43		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.75	9.69	93.0	7.90	A1	14.4	10.06	98.1	7.94		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.8	9.87	95.0	7.92	A2	14.4	9.94	96.9	7.92		
*N2 psi/s					A3	14.4	9.88	96.3	7.93		
					R1	14.05	3.03	29.3	7.37		
					X1						
					X2						
					LTB						
					P4	13.95	2.75	26.7	7.40	D01	
					P5	14.15	2.83	27.3	7.41		
					G4	14.35	9.63	93.7	7.88		
					G5	14.4	9.75	94.9	7.89		
					R2						
					R3	14.35	9.99	97.1	7.91		
					LAB						
					A4	14.4	10.17	98.9	7.95		
					A5	14.4	10.16	98.9	7.92		
					MAMA	13.55	7.35	89.4	7.88		
					CO2 psi/sup: 20; 100						

Date & Time: 3/18/24 9:30 AM				Name of person collecting data: D-1						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	13.05	9.75	123	7.88	G1	12.95	8.92	83.6	7.80	
PH1 Pre-Fert 3mg/L, 7.4 pH	12.3	3.28	305	7.46	G2	12.6	8.74	81.6	7.79	
AH1 Ambient 8mg/L, 7.8- 7.9 pH	13.0	9.46	89.2	7.86	G3	12.6	8.65	80.8	7.79	
LH1 Larval Treatment 3mg/L, 7.4 pH	12.6	3.47	32.4	7.62	P1	12.35	3.33	30.9	7.13	
PH2 Pre-Fert 3mg/L, 7.4 pH	12.65	3.64	34.1	7.56	P2	12.35	3.07	28.4	7.41	
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	12.75	9.31	87.3	7.89	P3	12.35	3.17	29.4	7.44	
LH2 Larval Treatment 3mg/L, 7.4 pH	12.75	9.35	87.7	7.88	A1	12.6	9.02	84.4	7.81	water level high
AH2 Ambient 8mg/L, 7.8- 7.9 pH	12.85	9.46	88.9	7.91	A2	12.6	8.73	81.5	7.79	
					A3	12.6	8.63	80.6	7.78	
					R1	12.35	3.43	31.8	7.38	Lots of squid 900
					X1					
					X2					
					LTB-					
					P4	12.45	3.10	29.0	7.40	
					P5	12.45	2.94	27.8	7.39	
					G4	12.5	8.60	80.1	7.79	
					G5	12.5	8.61	80.3	7.80	
					R2					
					R3	12.45	8.60	80.1	7.79	
					LAB					
					A4	12.45	8.75	81.6	7.79	
					A5	12.45	9.18	85.5	7.77	
					MAMA	13.3	10.19	96.7	7.91	
*N2 psi/sup:	35 PS				*CO2 psi/sup: 25 (CO2 psi: 100 psi)					



Date & Time:		Name of person collecting data: Dalyn and Nicolle							Adjusted flow or set points?	
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.5	10.52	100.4	7.94	G1	13.0	9.94	93.6	8.04	
					G2	12.8	9.85	92.2	8.01	
					G3	12.7	9.73	91.2	8.01	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.34	32.0	7.41	P1	11.8	3.52	32.3	7.53	pH + DO ↓
					P2	11.8	3.24	29.7	7.56	
					P3	11.7	3.36	30.8	7.67	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.9	7.33	70.4	7.94	A1	13.2	10.17	96.3	8.14	
					A2	12.9	9.85	92.3	7.86	
					A3	13.0	10.06	94.9	7.90	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.1	3.62	34.2	7.31	R1	11.8	3.02	27.6	7.58	pH ↓
					X1					
					X2					
					LTB					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.7	3.69	35.3	7.26	P4	11.7	3.40	31.2	7.40	DO ↓
					P5	11.8	3.13	28.8	7.44	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	10.15	97.6	7.97	G4	12.8	9.64	90.7	7.88	
					G5	12.6	9.46	88.4	7.81	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.9	10.54	101.4	7.97	R2					
					R3	12.5	9.55	89.0	7.79	
					LAB					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.9	10.59	102.0	8.01	A4	13.0	9.92	93.6	7.86	
					A5					
					MAMA	14.1	10.62	102.3	8.13	

\*N2 psi/sup: 230 psi / full

\*CO2 psi/sup: 190 psi / 1180 psi

Date & Time: 3/16/24 1:00 PM					Name of person collecting data: Sam & Lorenzo					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.7	10.73	102.7	7.90	G1	13.9	10.10	97.5	7.83	flow ↑
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.35	32.2	7.37	G2	13.8	10.41	100.1	7.86	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.4	10.85	103.9	7.88	G3	13.8	10.33	99.5	7.86	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.5	3.55	34.0	7.57	P1	13.6	3.37	32.4	7.43	DO ↓ 1° set point
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.61	35.1	7.24	P2	13.6	3.34	32.0	7.41	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.5	10.76	101.9	7.89	P3	13.6	3.31	31.7	7.41	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.5	10.65	102.1	7.89	A1	13.6	10.54	101.2	7.88	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.6	10.75	103.0	7.89	A2	13.6	10.30	99.1	7.86	flow ↑
*N2 psi/s	160/140				A3	13.6	10.52	101.7	7.88	
					R1	13.4	3.54	33.9	7.37	DO ↓ 1° set point
					X1	—	—	—	—	
					X2	—	—	—	—	
					LTB	—	—	—	—	
					P4	13.6	3.46	33.2	7.35	↓
					P5	13.6	3.20	30.7	7.35	DO ↓ 1° set point
					G4	13.6	10.22	98.1	7.86	
					G5	13.6	9.93	95.3	7.81	
					R2	—	—	—	—	
					R3	13.6	10.06	96.4	7.83	
					LAB	—	—	—	—	
					A4	13.6	10.01	96.3	7.84	flow ↑
					A5	13.6	10.29	99.1	7.87	
					MAMA	13.5	10.89	104.0	7.89	
					CO2 psi/sup: 26 psi / 250 psi					

Date & Time: 3/16/24 10:20 am					Name of person collecting data: Jasmin & Sam					Adjusted flow or set points?
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.8 °C	10.09	92.8%	7.74	<b>G1</b> <b>G2</b> <b>G3</b>	11.1 °C	9.46	85.6%	7.64	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.5 °C	2.66	24.9%	7.51		11.1 °C	9.75	88.3%	7.66	
						11.1 °C	9.67	87.6%	7.69	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.9 °C	10.23	91.9%	7.64	<b>P1</b> <b>P2</b> <b>P3</b>	11.9 °C	3.56	32.8%	7.45	
						11.8 °C	3.47	31.8%	7.43	
						11.7 °C	3.48	31.9%	7.43	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.8 °C	5.54	50.8%	7.41	<b>A1</b> <b>A2</b> <b>A3</b>	11.0 °C	9.27	83.8%	7.61	flow increased
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.3 °C	3.90	36.3%	7.47	<b>R1</b> <b>X1</b> <b>X2</b> <b>LTB</b>	11.5 °C	4.92	45.0%	7.40	DO ↓ 3% set points
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.8 °C	10.06	92.6%	7.73	<b>P4</b> <b>P5</b>	11.8 °C	3.51	32.3%	7.39	DO ↓ 1° set points
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.9 °C	10.03	92.4%	7.73	<b>G4</b> <b>G5</b>	11.4 °C	9.33	84.8%	7.65	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.0 °C	10.09	93.2%	7.75	<b>R2</b> <b>R3</b> <b>LAB</b>	11.4 °C	9.17	83.4%	7.66	
*N2 psi/sup:	F / 230 psi				<b>A4</b> <b>A5</b> <b>MAMA</b>	11.5 °C	7.47	68.2%	7.59	low flow, adjusted 1°
						12.7 °C	10.24	96.1%	7.81	
						*CO2 psi/sup: 26 psi / 351 psi				

Date & T		3/15/14		7:00 PM		Name of person collecting data:		DYLAN SHRIKH		Adjusted flow or set points?	
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH		
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.95	10.90	99.0	7.67	G1	10.95	10.55	95.4	7.53		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	10.75	3.80	35.0	7.51	G2	10.9	10.72	97.1%	7.64		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	10.75	11.0	99.3	7.65	G3	10.85	10.68	96.5%	7.63	DO↓	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	10.85	4.41	31.9%	7.43	P1	11.4	3.51	32.1%	7.45		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	10.75	4.30	39.0%	7.41	P2	11.3	3.35	30.6%	7.43		
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	10.6	10.87	77.8	7.65	P3	11.3	3.25	29.7%	7.42		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.6	10.85	77.7	7.64	A1	10.95	10.79	98.0	7.65		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	10.65	10.84	77.7	7.63	A2	11.1	10.71	97.5	7.64		
*N2 psi/s					A3	11.1	10.67	97.2	7.64		
					R1	11.65	4.98	46.0%	7.26	pH↑, DO↓	
					X1						
					X2						
					LTB						
					P4	11.2	3.65	53.4%	7.27		
					P5	11.2	3.14	33.3%	7.25	pH↑, DO↓	
					G4	11.0	10.56	76.0	7.63		
					G5	11.05	10.37	74.5	7.63		
					R2						
					R3	11.05	10.17	95.2	7.63		
					LAB						
					A4	11.05	10.43	95.0	7.63		
					A5	11.25	10.27	94.0	7.63		
					MAMA	11.45	11.07	101.7%	7.72		
					CO2 psi/sup:	7.5	350				

Name of person collecting data:										
Date & Time:	3/15/24 9:30									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.5	8.69	100.3	7.46	G1	11.55	8.09	91.5	7.37	
					G2	11.80	8.37	95.2	7.37	
					G3	11.78	8.26	94.3	7.39	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.05	3.37	37.0	7.08	P1	10.75	3.44	38.3	7.06	
					P2	10.75	3.20	35.7	7.06	
					P3	10.85	3.21	35.9	7.06	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.5	8.49	91.4	7.46	A1	12.10	8.56	97.9	7.40	
					A2	11.75	8.37	95.2	7.37	
					A3					new position
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	1.0	3.98	44.6	7.09	R1	11.05	4.58	51.5	6.96	
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.65	3.61	41.0	6.10	LTB	11.45	4.40	49.7	6.96	
					P4	11.70	3.61	41.0	6.95	
					P5	11.70	3.44	89.2	6.93	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.98	8.97	104.0	7.47	G4					
					G5	12.20	8.10	92.8	7.38	
<b>LH2</b> Larval Treatment 3mg/L, 7.4	12.0	8.43	96.4	7.40	R2					Drained
					R3	11.25	7.73	87.7	7.31	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.95	9.05	105.1	7.48	LAB	11.80	8.03	91.1	7.35	12.0 °C Sub 1.0°C C b
					A4	12.10	8.19	12.8	7.40	
					A5	12.15	8.20	94.4	7.30	
*N2 psi/sup:	25.0				MAMA	13.0	9.18	106.8	7.50	
										*CO2 psi/sup: 26.00

pH - 10th's batch - 10-181

3/14/24 7:26 pm					Name of person collecting data: Jasmin & Quinn					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.2°C	10.69	101.7%	7.83	G1	13.5°C	10.46	100.1%	7.81	
					G2	13.5°C	10.50	100.5%	7.81	
					G3	13.5°C	10.46	100.1%	7.81	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.2°C	3.13	29.8%	7.53	P1	13.3°C	3.27	31.3%	7.48	
					P2	13.5°C	3.12	29.9%	7.47	↓ pH
					P3	13.6°C	3.16	30.4%	7.47	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.2°C	10.72	101.9%	7.83	A1	13.3°C	10.43	99.6%	7.81	
					A2	13.4°C	10.32	98.6%	7.81	
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.2°C	4.30	40.9%	7.29	R1	13.7°C	5.29	51.0%	7.39	↓ DO
					X1					
					X2					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.2°C	3.87	36.9%	7.46	LTB	13.6°C	5.00	48.1%	7.36	↓ DO
					P4	13.5°C	3.45	33.1%	7.27	↓ DO
					P5	13.5°C	3.39	32.5%	7.27	↑ pH
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.0°C	10.71	101.7%	7.83	G4	13.3°C	10.24	97.9%	7.80	
					G5	13.3°C	10.22	97.7%	7.80	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.0°C	10.74	101.9%	7.83	R2					
					R3	13.5°C	10.25	98.3%	7.80	
					LAB	12.8°C	10.48	99.1%	7.72	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.0°C	10.78	102.4%	7.83	A4	13.3°C	10.31	98.6%	7.80	
					A5	13.3°C	10.29	98.5%	7.80	
					MAM	13.0°C	10.79	102.5%	7.84	
*N2 psi/sup:	full				*CO2 psi/sup:	450	125			

Date & Time		5/14/2024 9:30		Name of person collecting data: Sofia		Adjusted flow or set points?			
Header	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.8	3.53	33.3	7.45	P1	12.2	4.28	39.8	7.48
					P2	12.2	3.78	35.1	7.44
					P3	12.0	3.85	35.6	7.44
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	12.9	10.74	101.4	7.82	G1	12.4	9.24	86.2	7.73
					G2	12.4	10.30	96.1	7.77
					G3	12.4	10.44	97.4	7.76
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	12.8	10.64	100.3	7.81	A1	12.6	10.24	96.0	7.76
					A2	12.4	10.44	97.5	7.75
					A3				
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.8	3.66	34.4	7.29	R1	12.2	5.94	55.3	7.25
					LTB	12.7	4.89	46.0	7.29
					LAB	12.2	10.14	93.4	7.71
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.8	4.38	41.3	7.36	P4	12.4	3.80	35.4	7.26
					P5	12.4	4.22	39.3	7.31
					G4	12.5	10.31	96.4	7.75
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	13.0	10.66	100.7	7.83	G5	12.5	10.26	95.7	7.74
					A4	12.4	10.38	96.8	7.76
					A5	12.4	10.34	96.4	7.74
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.0	10.78	101.9	7.83	R2				
					R3	12.6	10.28	96.3	7.74
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.0	10.74	101.6	7.83	MAMA	12.7	10.74	101.1	7.82
*N2 psi/sup:	Full	*CO2 psi/sup:							

Date & Time	3/13/24									Name of person collecting data:	Alison + Sophia	Adjusted flow or set points?
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH			
PH1 Pre-Fert 3mg/L, 7.4 pH	12.8	2.46	23.1	7.63	P1	13.4	3.09	29.5	7.55			
	12.7	2.94	27.5	7.74	P2	13.5	3.11	29.6	7.59			
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	13.3	10.34	97.8	7.89	P3	13.5	2.86	27.3	7.59			
AH1 Ambient 8mg/L, 7.8- 7.9 pH	12.9	10.55	99.0	7.89	G1	13.1	10.17	95.9	7.89			
LH1 Larval Treatment 3mg/L, 7.4 pH	12.8	5.63	52.7	7.60	G2	13.2	10.21	96.4	7.89			
PH2 Pre-Fert 3mg/L, 7.4 pH	12.8	3.34	31.2	7.24	G3	13.2	10.07	95.2	7.89			
					A1	13.0	10.31	96.9	7.89			
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	12.6	10.34	96.4	7.88	A2	13.0	10.37	97.6	7.89			
AH2 Ambient 8mg/L, 7.8- 7.9 pH	12.6	10.44	96.2	7.75	A3	13.0	10.33	97.4	7.89			
LH2 Larval Treatment 3mg/L, 7.4 pH	12.6	10.48	97.7	7.88	R1	13.3	4.57	43.4	7.42			
*N2 psi/sup: 220	Full	*CO2 psi/sup: 25			L1B	13.7	5.86	55.5	7.44			
					L1D	13.9	16.17	97.7	7.91			
					P4	13.3	3.39	32.1	7.20			
					P5	13.3	3.16	29.9	7.29			
					G4	12.9	10.05	94.5	7.80			
					G5	12.8	10.19	95.6	7.80			
					A4	12.8	9.64	90.4	7.73			
					A5	13.0	9.96	94.0	7.80			
					R2							
					R3	12.8	10.08	94.4	7.80			
					MAMA	11.5	10.68	97.2	7.73			
						500psi						

I believe this is  
probably supposed  
to be 3/13/24

Date & Time	3/15/24 9:30		Name of person collecting data: Lorenzo + Quan		Adjusted flow or set points?				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.2	3.30	31.3	7.60	P1	13.3	3.59	34.1	8.01
					P2	13.3	3.43	32.4	8.04
					P3	13.2	3.22	30.4	8.08
					G1	13.2	10.28	97.4	7.98
					G2	13.2	10.31	97.5	7.95
					G3	13.2	10.24	96.8	7.97
					A1	13.2	10.42	98.7	7.97
					A2	13.2	10.41	98.5	7.97
					A3	13.2	10.35	97.8	7.99
					R1	12.9	3.88	36.4	7.44
					LTB	12.9	5.08	47.8	7.43
					LBS	13.3	10.56	100.0	7.83
					P4	13.5	23.39	31.7	7.43
					P5	13.5	3.17	30.2	7.41
					G4	13.4	10.08	95.7	7.95
					G5	13.4	10.29	97.7	7.96
					A4	13.2	9.75	92.2	7.91
					A5	13.2	10.56	91.9	7.98
					R2	13.3	10.09	95.7	7.93
					R3				OFF
					MAMA	13.1	10.53	99.2	7.95
*N2 psi/sup:	Tank	*CO2 psi/sup: 20 psi		500 psi					

Date & Time:		3/17/74 2:50 pm		Name of person collecting data:		Dylan & Jamin				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.4°C	3.62	33.4%	7.53	P1	12.7°C	3.00	28.1%	7.40	
					P2	12.8°C	2.95	27.5%	7.39	
					P3	12.8°C	2.81	26.3%	7.39	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.8°C	10.36	94.8%	7.82	G1	12.1°C	10.05	92.7%	7.81	
					G2	12.3°C	9.90	91.7%	7.82	
					G3	12.3°C	9.63	89.1%	7.79	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.0°C	10.47	96.2%	7.82	A1	12.2°C	10.19	94.2%	7.81	
					A2	12.2°C	9.84	91.1%	7.79	
					A3	12.2°C	9.89	91.6%	7.79	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.1°C	3.93	36.3%	7.24	R1	12.8°C	2.84	26.6%	7.30	PH ↑ 0.03
					LTB	13.2°C	4.78	45.3%	7.38	
					LAB	13.0°C	10.35	97.5%	7.82	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.3°C	3.37	31.1%	7.36	P4	12.5°C	2.84	26.4%	7.34	PH ↑ 0.01
					P5	12.5°C	2.76	25.6%	7.34	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.55	10.32	94.0	7.80	G4	12.05	9.63	89.0	7.79	
					G5	12.05	10.05	92.8	7.81	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.7	10.30	94.2	7.80	A4	12.25	9.33	86.3	7.77	
					A5	12.5	9.29	86.3	7.79	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.6	10.32	94.1	7.80	R2					Empty
*N2 psi/sup:	*CO2 psi/sup: 74 ° 525 psi		R3	12.3	9.38	87.0	7.76			
			MAMA	11.45	10.42	94.7	7.79			

Date & Time	3/12/24 9 am		Name of person collecting data:		Dy/16 & Aimee					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.7	3.91	37.4%	7.64	P1	13.6	3.44	32.7	7.47	
					P2	13.55	3.34	31.7	7.45	
					P3	13.45	3.29	31.3	7.46	
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	13.65	10.84	103.7%	8.05	G1	13.65	10.56	100.8%	8.03	
					G2	13.65	10.24	97.6%	8.01	
					G3	13.55	9.97	95.0%	7.99	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	13.4	10.82	103.2	8.05	A1	13.4	10.78	98.1	8.00	No flow noted 7:30 am 1/20/24
					A2	13.4	10.36	99.0	8.02	7:30 am 1/20/24
					A3					Oil release (small)
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.55	3.94	38.2	7.36	R1	13.25	3.27	30.9	7.38	
					LTB	13.5	4.60	43.8	7.44	
					LAB					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.65	3.33	31.8	7.41	P4	13.55	2.97	28.4	7.44	
					P5	13.55	2.93	24.9	7.41	
					G4	13.55	10.09	96.2	8.04	
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	13.65	10.78	103.1	8.03	G5	13.55	10.43	99.6%	8.04	
					A4	13.45	9.80	93.0	7.96	
					A5					Oil release (small)
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.65	10.85	103.5	8.03	R2					Empty
					R3	13.4	10.12	96.2	7.99	
					MAMA	13.8	10.88	104.4%	8.08	

\*N2 psi/sup: 1 F11 \*CO2 psi/sup: 24.525

LN2 Tank Swap 8:50 AM

Date & Time:		2/11/24 1:30 PM		Name of person collecting		Data: New Dyno				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.15	3.69	34.1	7.33	P1	13.0	3.04	28.7	7.31	PH ↑ O2
					P2	12.7	2.95	27.6	7.31	
					P3	12.9	2.90	27.3	7.31	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.55	10.10	92.1	7.77	G1	11.95	9.84	90.8	7.81	
					G2	12.2	9.52	88.1	7.79	
					G3	12.15	9.36	86.7	7.81	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	11.65	10.34	94.7	7.79	A1	11.95	10.07	92.8	7.79	
					A2	12.15	9.89	91.4	7.79	
					A3	12.15	9.78	90.5	7.79	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.95	3.86	35.5	7.40	R1	12.45	3.14	29.2	7.34	PH ↑ 0.01
					LTB	13.2	3.74	35.4	7.36	
					LAB	13.35	10.16	96.6	7.81	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.05	3.60	33.1	7.21	P4	12.55	3.22	30.0	7.33	PH ↑ 0.02
					P5	12.55	3.10	28.9	7.33	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	11.65	10.05	91.8	7.77	G4	12.3	9.53	88.4	7.78	
					G5	12.3	9.64	89.5	7.80	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	11.75	10.08	91.3	7.77	A4	12.4	9.06	84.4	7.79	
					A5	12.5	9.41	87.8	7.81	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	11.65	10.05	91.9	7.77	R2					Empty
					R3	12.15	9.53	88.3	7.78	
					MAMA	11.6	10.08	92.1	7.77	

\*N2 psi/sup: 35.0 1/2

\*CO2 psi/sup: 23, 600

Date & Time	3/11/22	8:10 AM	Name of person collecting data:	D. T. M.							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.45	3.57	34.1	7.35	P1	13.3	3.14	29.8	7.39		
					P2	13.2	2.99	28.3	7.39		
					P3	13.1	3.04	28.7	7.39		
					G1	13.3	10.37	98.7	7.98		
					G2	13.25	10.30	99.7	7.96		
					G3	13.25	10.24	99.2	7.96		
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.3	10.75	102.1	7.97	A1	13.25	10.53	100.1	7.97		
					A2	13.2	10.40	98.7	7.98		
					A3	13.15	10.33	98.1	7.96		
					R1	13.4	2.84	27.1	7.41	DO↑ 1%	
					L8	12.75	3.66	34.3	7.43		
					AB	[REDACTED]	10.39	97.6	7.80	Temp 12.75	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.45	3.04	29.0	7.37	P4	13.25	3.14	29.8	7.37		
					P5	13.15	2.97	28.1	7.37	Flow increased back to 60	
					G4	13.3	16.27	97.6	7.97		
					G5	13.3	10.42	99.3	7.98		
					A4	13.15	9.85	93.2	7.93		
					A5	12.95	9.92	93.6	7.92		
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.45	3.33	31.8	7.32	R2						
					R3	13.1	10.16	96.1	7.94		
					MAMA	13.1	10.96	103.7	7.96	Empty	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.3	10.80	102.5	7.96							
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.3	10.81	102.7	7.96							
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.3	10.80	102.5	7.96							
*N2 psi/sup:				1/2 F41 *CO2 psi/sup:		20	575	Mang flow -1 to 10w			

Date & Time:		3/10/24 2:57PM					Name of person collecting data:		Mashon	
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	11.3	3.65	33.1	7.27	P1	11.9	3.34	30.7	7.33	pH set point ↑
					P2	11.9	3.09	28.4	7.32	
					P3	11.9	3.22	29.7	7.32	
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	11.3	9.41	85.3	7.73	G1 <sup>A</sup>	11.4	9.07	82.7	7.73	
					G2 <sup>A</sup>	11.5	8.96	81.8	7.73	
					G3 <sup>A</sup>	11.5	8.84	80.50	7.72	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	11.0	9.91	89.3	7.73	A1	11.4	9.74	88.4	7.73	
					A2	—	—	—	—	parturition
					A3	11.5	9.69	88.4	7.73	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	11.1	3.40	30.7	7.42	R1	11.8	3.28	30.1	7.34	
					LTB	12.8	4.55	42.8	7.39	
					LAB	12.4	9.40	87.5	7.73	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	11.2	3.58	32.5	7.47	P4	11.8	3.33	30.50	7.36	
					P5	11.9	3.54	32.0	7.36	
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	10.8	9.61	86.1	7.72	G4 <sup>A</sup>	11.4	9.04	82.4	7.73	
					G5	—	—	—	—	parturition
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	10.8	9.65	86.6	7.72	A4	11.4	8.96	81.6	7.73	
					A5	11.4	9.59	87.3	7.73	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	10.8	9.58	85.9	7.72	R2 <sup>A</sup>	—	—	—	—	Dylan said skip
					R3 <sup>A</sup>	11.4	8.86	80.5	7.71	
					MAMA	10.7	9.86	88.1	7.72	

\*N2 psi/sup:

\*CO2 psi/sup:

Date & Time	3-10-24 9:17am		Name of person collecting data:		Daiyun		Nicolle	Adjusted flow or set points?	
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.4	3.44	32.7	7.30*	P1	13.2	5.14	44.6	7.94
					P2	13.3	5.89	55.8	7.93
					P3	13.3	5.65	53.5	7.93
					G1	13.4	10.06	95.5	7.96
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.4	8.61	81.7	7.98	G2	13.4	9.95	94.5	7.94
					G3	13.4	9.78	92.8	7.93
					A1	13.4	10.19	96.8	7.95
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	13.3	10.47	98.9	7.95	A2				
					A3	13.4	10.20	96.8	7.95
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.3	4.05	38.4	7.44	R1*	13.3	9.80	93.0	7.93
					LT1	13.0	8.17	77.0	8.17
					LA1	13.1	9.91	93.4	7.79
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.3	3.42	32.4	7.25*	P4	13.4	9.54	90.5	7.88
					P5	13.3	9.34	88.3	7.90
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.0	9.55	89.7	7.92	G4	13.3	9.98	94.5	8.36
					G5	13.4	10.26	94.8	7.87
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.0	10.31	97.0	7.93	A4	13.3	9.82	93.1	7.94
					A5	13.4	10.25	97.3	7.97
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.0	10.26	96.5	7.93	R2	13.3	9.84	93.3	7.92
					R3	13.3	9.76	92.4	7.92
					MAMA	12.4	10.23	95.4	7.92

\*N2 psi/sup:

\*CO2 psi/sup:

Increase CO2 pressure  
to 21 psi @ 10:14

Date & Time	3-10-24 10:46 am					Name of person collecting data:	Dailun Nuelle			
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH				*	P1	13.3	4.46	42.3	7.56	
					P2	13.3	4.34	41.2	7.56	
					P3	13.3	4.49	42.6	7.58	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH					G1					
					G2					
					G3					
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH					A1					
					A2					
					A3					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH				*	R1	13.3	4.79	45.5	7.66	
					LT1	13.3	7.67	72.8	7.63	
					LA1					
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH				*	P4	13.2	4.22	39.9	7.48	
					P5	13.2	5.14	48.6	7.56	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH					G4					
					• G5					
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH					A4					
					A5					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH					R2					
					R3					
					MAMA					

\*N2 psi/sup:

\*CO2 psi/sup:

Date & Time:		3-9-24 1:15pm		Name of person collecting data:		Sam Lorenzo				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.5	3.53	32.9	7.20	P1	12.7	3.24	31.2	7.27	pH↑ 0.02
					P2	12.6	3.14	29.3	7.27	
					P3	12.6	3.23	30.2	7.27	
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	12.2	10.47	97.2	7.82	G1	12.4	10.12	99.3	7.80	
					G2	12.6	10.18	94.9	7.80	
					G3	12.6	10.06	94.0	7.80	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	12.2	10.66	98.6	7.82	A1	12.5	10.47	97.5	7.82	
					A2	12.5	10.18	94.8	7.80	
					A3	12.5	10.41	97.3	7.81	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.4	3.38	31.5	7.30	R1	12.7	3.09	28.9	7.31	pH↑ 0.01
					LT1	3.0	3.87	36.5	7.33	
					LA2	13.0	10.48	99.0	7.81	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.4	3.61	33.0	7.25	P4	12.6	3.39	31.6	7.31	pH↑ 0.02
					P5	12.6	3.18	29.8	7.30	DO 10.5%
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	12.5	10.65	99.3	7.85	G4	12.5	10.17	94.9	7.82	
					G5	12.5	10.20	95.2	7.82	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	12.9	10.76	101.3	7.91	A4	12.6	10.13	94.9	7.83	
					A5	12.6	10.54	98.3	7.83	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.9	10.77	101.4	7.91	R2	12.6	9.88	92.4	7.80	
					R3	12.5	10.05	93.7	7.80	
					MAMA	13.2	10.81	102.5	7.96	
*N2 psi/sup: 17		*CO2 psi/sup: 19 / 600								

Date & Time	3/9/24 4:20PM	Name of person collecting				ata: 5m	Adjusted flow or set points?			
Header Tank	°C Temp	DO (mg/L)	DO %	pH	Adult Tank	°C Temp	DO (mg/L)	DO %	pH	
PH1 Pre-Fert 3mg/L, 7.4 pH	13.2	3.58	33.9	7.45	P1	13.4	3.23	30.7	7.37	
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	12.5	10.38	96.3	7.88	P2	13.5	3.08	29.3	7.37	
					P3	13.5	3.03	28.8	7.37	
					G1	13.0	10.32	97.0	7.93	
					G2	13.2	10.33	97.4	7.93	
					G3	13.3	10.14	95.8	7.91	
AH1 Ambient 8mg/L, 7.8- 7.9 pH	12.5	10.56	98.1	7.89	A1	13.2	10.35	97.5	7.90	
					A2	13.2	10.06	94.8	7.90	
					A3	13.2	10.20	96.2	7.90	
					R1	13.5	2.82	26.8	7.39	DO ↑ 0.9%
					L42	13.4	0.54	100.00	7.91	
LH1 Larval Treatment 3mg/L, 7.4 pH	13.3	2.83	26.96	7.42	LT1	13.7	3.41	32.6	7.41	
					P4	13.5	3.17	30.2	7.36	pH ↑ 0.01
					P5	13.5	2.96	28.1	7.35	
					G4	13.3	10.27	97.2	7.93	
					G5	13.4	10.42	98.8	7.95	
AH2 Ambient 8mg/L, 7.8- 7.9 pH	12.9	10.49	98.3	7.91	A4	13.3	10.15	95.9	7.92	
					A5	-				Released rest of larvae
					R2	13.3	10.30	97.4	7.93	
					R3	13.3	10.16	96.1	7.93	
					MAMA	12.3	10.17	94.0	7.85	

\*N2 psi/sup: < 1.0

\*CO2 psi/sup: 14 / 600

Date &amp; Time:

3/08 2PM

Name of person collecting data: Caitlyn + Matt + Dylan

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
PH1 Pre-Fert 3mg/L, 7.4 pH	13.7	3.62	34.6%	7.31	P1	13.7	3.35	32.1%	7.25	
					P2	13.8	3.28	31.3%	7.25	pH↑ 0.05
					P3	13.8	3.17	30.4%	7.23	DO ↓ 1%
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	13.6	10.74	102.4%	7.94	G1	13.6	10.20	97.2	7.91	
					G2	13.7	9.82	93.8%	7.89	
					G3	13.6	9.76	93.1%	7.88	
AH1 Ambient 8mg/L, 7.8-7.9 pH	13.6	10.69	101.9%	7.95	A1	13.5	10.22	97.1%	7.91	
					A2	13.5	9.87	93.8%	7.88	
					A3	13.5	10.22	97.1%	7.90	
LH1 Larval Treatment 3mg/L, 7.4 pH	13.5	3.45	32.8%	7.37	R1	13.6	3.11	29.7%	7.29	pH↑ 0.03
					LTB	14	3.44	33.1%	7.29	DO ↓ 1%
					LAB	14.1	9.55	92.2%	7.89	
PH2 Pre-Fert 3mg/L, 7.4 pH	13.6	3.67	35.1%	7.25	P4	13.5	3.65	34.8%	7.30	pH↑ 0.03
					P5	13.5	3.52	33.6%	7.30	DO ↓ 3%
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	13.6	10.77	102.7%	7.95	G4	13.6	10.06	95.8%	7.90	
					G5	13.6	10.32	98.4%	7.92	
AH2 Ambient 8mg/L, 7.8-7.9 pH	13.5	10.75	102.2%	7.93	A4	13.5	9.72	92.3%	7.88	
					A5					Perfumition
LH2 Larval Treatment 3mg/L, 7.4 pH	13.5	10.73	102.1%	7.94	R2					BCN2O
					R3	13.5	9.63	92.1%	7.87	
					MAMA	13.6	10.76	102.6%	7.95	

\*N2 psi/sup: 25, &gt; 1/2 \*CO2 psi/sup: 20, &gt; 1/2

DO (mg/L) 2.8 ; pH 7.3

Date & Tim:		8:31; 3/5/24		Name of person collecting data: Madison + Karla						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
PH1 Pre-Fert 3mg/L, 7.4 pH	13.7	3.71	35.2	7.54	P1	13.55	3.41	32.4	7.54	pH ↓ .03
					P2	13.50	3.23	30.6	7.54	
					P3	13.5	3.16	30.0	7.54	
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	13.4	10.00	94.6	8.12	G1	13.5	9.79	93.0	8.13	
					G2	13.5	9.74	92.6	8.13	
					G3	13.5	9.62	91.4	8.11	
AH1 Ambient 8mg/L, 7.8-7.9 pH	13.4	10.22	96.8	8.12	A1	13.5	10.00	95.0	8.13	
					A2	13.5	9.75	92.6	8.11	
					A3	13.6	10.07	95.8	8.11	
					R1	13.45	2.83	27.0%	7.54	pH ↓ .01
LH1 Larval Treatment 3mg/L, 7.4 pH	13.4	3.36	31.9	7.51	Larval A	13.4	10.32	97.7	8.17	
					Larval B	13.6	3.52	33.6	7.57	
					P4	13.5	3.35	31.8%	7.54	
PH2 Pre-Fert 3mg/L, 7.4 pH	13.4	3.58	34.0	7.63	P5	13.6	3.11	29.5	7.53	pH ↓ .03
					G4	13.6	9.80	93.2	8.14	
					G5	13.6	10.04	95.5	8.16	
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	13.3	9.99	94.5	8.12	A4	13.6	9.62	91.4	8.14	
AH2 Ambient 8mg/L, 7.8-7.9 pH	13.5	9.99	94.6	8.13	A5					Babies! Partial Part.
LH2 Larval Treatment 3mg/L, 7.4 pH	13.3	9.96	94.2	8.13	R2					
					R3	13.5	9.63	91.3	8.13	
					MAMA	13.2	10.20	97.2	8.11	

\*N2 psi/sup:

\*CO2 psi/sup: 20

Date & Time		3/7/24	9 AM	Name of person collecting data:		Quinn				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.9	3.53	33.3	7.45	P1	13.2	3.27	31.8	7.50	flows Δ pH ↓ 0.02
					P2	13.2	3.19	30.1	7.50	
					P3	13.2	3.01	28.6	7.49	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.3	10.44	97.6	7.99	G1	13.1	10.12	95.9	8.07	
					G2	13.2	10.19	96.9	8.06	
					G3	13.2	10.12	96.0	8.06	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.3	10.44	97.3	7.98	A1	12.9	10.21	96.3	8.02	
					A2	13.0	10.26	97.0	8.02	
					A3	13.0	10.09	95.4	8.03	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.8	3.82	35.9	7.55	R1	13.3	3.01	28.6	7.48	pH ↓ 0.02
					LTB	13.2	3.85	36.5	7.52	
					LAB	13.2	10.41	99.0	8.08	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.8	3.87	36.4	7.54	P4	13.1	3.64	34.5	7.51	← second 1/2 of part. reduced pH ↓ 0.02
					P5	13.1	3.43	30.7	7.51	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.4	10.44	97.4	7.98	G4	13.3	9.61	91.5	8.06	Δ flows
					G5	13.1	9.59	91.1	8.05	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.6	10.41	97.4	7.99	A4	13.2	9.82	93.3	8.04	
					A5	13.0	9.98	94.4	8.02	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.4	10.43	97.4	7.98	R2	13.1	10.41	98.5	8.06	(no flow)
					R3	13.0	10.16	96.0	8.02	
					MAMA	12.3	10.32	96.3	7.96	

\*N2 psi/sup: 250 psi 7 1/2 full \*CO2 psi/sup: 20 psi 600 psi

Date & Time	3/7/24 8:30 PM Name of person collecting: Jazmin + Quinn									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.4°C	3.46	33.7%	7.56	P1	14.4°C	3.26	31.9%	7.47	3 ↓ pH 0.02
					P2	14.4°C	3.08	30.0%	7.46	
					P3	14.4°C	3.01	30.3%	7.46	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.2°C	10.84	105.0%	8.17	G1	14.2°C	10.39	101.0%	8.15	
					G2	14.2°C	10.24	99.5%	8.12	
					G3	14.2°C	10.12	98.3%	8.13	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2°C	10.74	104.1%	8.16	A1	14.2°C	10.43	101.3%	8.14	
					A2	14.2°C	10.11	98.6%	8.14	
					A3	14.2°C	10.39	100.8%	8.14	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.2°C	3.35	32.6%	7.50	R1	14.3°C	3.25	31.6%	7.50	3 ↓ pH 0.02
					LTB	14.5°C	3.48	36.0%	7.52	
					LAB	14.6°C	10.46	102.6%	8.09	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.2°C	3.75	36.5%	7.59	P4	14.2°C	4.15	40.3%	7.50	strand pipe was off to PO ↓ from down out tank
					P5	14.1°C	3.22	31.1%	7.49	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1°C	10.87	105.2%	8.16	G4	14.1°C	10.25	99.5%	8.12	
					G5	14.1°C	10.32	100.2%	8.13	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1°C	10.87	105.3%	8.16	A4	14.1°C	10.18	98.8%	8.13	
					A5	14.1°C	10.19	98.9%	8.11	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.1°C	10.87	105.2%	8.16	R2	14.1°C	10.69	103.6%	8.13	
					R3	14.1°C	10.07	97.5%	8.11	
					MAMA	14.0°C	11.07	106.9%	8.16	

\*N2 psi/sup:

\*CO2 psi/sup: 600 psi / 20 psi

Date & Time: 3/6/24 1:52 Name of person collecting: Sofia

Date & Time:	5/6/29	6 L	Name of person collecting data:	Sofia						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.1	3.47	33.8	7.48	P1	14.2	3.56	34.7	7.44	
					P2	14.2	3.29	32.1	7.43	
					P3	14.2	3.27	31.9	7.43	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.24	99.6	8.08	G1	14.1	9.84	95.8	8.07	
					G2	14.1	10.14	98.8	8.09	
					G3	14.1	9.88	96.3	8.08	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1	10.54	102.5	8.11	A1	14.1	10.23	99.6	8.09	
					A2	14.1	10.15	98.7	8.09	
					A3	14.1	9.96	96.9	8.08	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.1	3.48	33.8	7.51	R1	14.2	3.11	30.3	7.45	
					LTB	14.4	3.67	35.9	7.46	
					LAB	14.7	9.28	91.4	8.06	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.2	3.49	34.0	7.54	P4	14.3	7.04	68.8	7.58	post partition
					P5	14.3	3.60	35.1	7.47	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.2	7.45	72.6	8.09	G4	14.2	9.48	92.3	8.05	
					G5	14.2	9.81	95.5	8.07	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2	10.64	103.6	8.11	A4	14.2	9.87	96.2	8.07	
					A5	14.2	9.97	97.1	8.07	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.2	10.55	102.7	8.11	R2	14.2	10.62	103.4	8.11	
					R3	14.2	10.16	98.9	8.09	
					MAMA	14.3	10.59	103.1	8.11	

Date & Time		9:00 AM 3/6/24		Name of person collecting data: Loreen Z.						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.8	3.52	34.0	7.63	P1	13.4	3.49	33.4	7.54	pH ↓ 0.2
					P2	13.2	3.32	31.8	7.54	
					P3	13.1	2.99	28.4	7.52	
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	13.6	10.64	102.6	8.13	G1	13.1	9.55	91.3	8.04	
					G2	13.1	10.00	95.1	8.07	
					G3	13.2	9.67	92.3	8.05	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	13.0	10.40	98.8	8.05	A1	13.5	10.09	97.2	8.10	
					A2	13.5	10.11	97.3	8.11	
					A3	13.4	9.72	93.3	8.05	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.8	3.60	34.9	7.51	R1	13.4	3.14	30.1	7.52	pH ↓ 0.2
					LTB	14.0	3.82	37.1	7.53	
					LAR	13.7	10.41	100.7	8.08	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.8	4.24	41.1	7.62	P4					pH ↓ 0.2
					P5	13.7	3.39	32.7	7.50	
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	13.8	10.81	104.9	8.19	G4	13.5	9.34	89.7	8.06	
					G5	13.5	9.64	92.7	8.05	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.8	10.86	105.4	8.17	A4	13.5	9.83	94.5	8.08	
					A5	13.6	9.89	95.4	8.11	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.8	10.86	105.3	8.17	R2	13.6	10.58	102.0	8.12	
					R3	13.6	10.14	97.8	8.10	
					MAMA	13.8	10.84	105.0	8.17	

\*N2 psi/sup: 1/2

\*CO2 psi/sup: 10/600

Date & Time: 3/5/24 2:07 pm					Name of person collecting: Dylan & Jasmin					Adjusted flow or set points?
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.0°C	3.41	33.0%	7.38	P1	14.1°C	3.34	32.4%	7.42	
					P2	14.1°C	3.07	29.9%	7.42	
					P3	14.1°C	2.91	28.2%	7.41	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0°C	10.73	103.8%	8.10	G1	14.1°C	3.84	30.1%	7.44	
					G2	14.1°C	10.13	98.3%	8.07	
					G3	14.1°C	9.99	97.0%	8.07	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1°C	10.71	103.6%	8.10	A1	14.1°C	10.19	98.5%	8.08	
					A2	14.1°C	10.31	99.8%	8.08	
					A3	14.1°C	10.04	97.2%	8.06	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.1°C	3.51	34.0%	7.47	R1	14.1°C	3.10	30.1%	7.44	
					LTB	14.3°C	3.88	31.9%	7.48	
					LAB	14.3°C	10.70	104.4%	8.08	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.1°C	3.43	33.2%	7.41	P4	14.1°C	3.35	32.5%	7.43	
					P5	14.1°C	3.25	31.5%	7.43	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0°C	10.69	103.4%	8.10	G4	14.1°C	10.00	96.8%	8.06	
					G5	14.1°C	9.86	95.5%	8.07	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.0°C	10.79	104.1%	8.11	A4	14.1°C	9.87	95.7%	8.07	
					A5	14.1°C	9.91	96.5%	8.06	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.0°C	10.75	103.8%	8.11	R2	14.0°C	10.14	98.2%	8.08	
					R3	14.0°C	10.27	99.4%	8.08	
					MAMA	14.0°C	10.76	100.0%	8.11	

\*N2 psi/sup: 35 / L full \*CO2 psi/sup: 19 , 600 psi

Date & Time	3/5/24 8:30 am		Name of person collecting data: Dylan							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.5	3.44	32.9	7.55	P1	13.1	3.64	34.4	7.49	pH ↓ 0.01
					P2	13.05	3.34	31.5	7.47	DO ↓ 1%
					P3	12.95	3.16	29.8	7.45	
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	13.7	10.76	103.0	8.12	G1	13.3	9.85	93.5	8.02	all 3 were bubble over
					G2	13.23	10.01	95.0	8.02	
					G3	13.23	10.12	96.0	8.04	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	13.7	10.79	103.4	8.12	A1	13.5	10.35	98.8	8.07	
					A2	13.55	10.37	99.0	8.09	
					A3	13.35	9.96	94.9	8.04	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.7	3.61	34.6	7.59	R1	13.25	3.00	28.4	7.49	pH ↓ 0.01
					LB	13.25	3.63	34.3	7.52	
					LAB	13.25	10.64	101.2	8.08	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.7	3.83	36.7	7.48	P4	13.4	3.44	32.7	7.50	DO ↓ 1%
					P5	13.3	3.40	32.3	7.49	pH ↓ 0.02
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	13.8	10.81	103.9	8.15	G4	13.2	9.85	93.3	8.04	
					G5	13.2	9.69	91.9	8.02	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.75	10.82	103.8	8.12	A4	13.25	9.86	93.6	8.05	
					A5	13.25	9.91	94.1	8.04	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.8	10.81	103.8	8.13	R2	13.3	10.07	95.7	8.04	
					R3	13.3	10.24	97.4	8.05	
					MAMA	13.8	10.82	104.0	8.13	

\*N2 psi/sup: 35 ; <f>11 \*CO2 psi/sup: 19; 600

Flow rate of 100 ml/min T = 25°C

Date & Time:		3/24/14 3:30		Name of person collecting:		ia: Dylan				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.2	3.58	34.6	7.50	P1	14.14	2.76	26.9	7.34	pH 10.02
					P2	14.15	2.47	24.0	7.33	DO 1% Flow very low +0.9113
					P3	14.15	2.30	22.4	7.32	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.95	10.80	104.2	8.09	G1	14.35	9.72	94.5	8.05	
					G2	14.35	16.45	83.0	7.86	
					G3	14.35	9.82	95.2	8.05	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.95	10.75	103.5	8.09	A1	14.2	10.13	97.9	8.06	
					A2	14.25	10.19	98.5	8.08	
					A3	14.15	9.71	94.0	8.05	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.9	3.31	31.9	7.37	R1	14.25	2.62	25.4	7.34	DO 12%
					LTB	14.55	3.52	34.3	7.45	
					LAB	14.55	18.83	105.7	8.09	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.05	4.14	39.9	7.49	P4	14.15	3.24		7.43	
					P5	14.15	3.10	29.9	7.42	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.05	10.83	104.3	8.09	G4	14.15	9.77	94.3	8.03	
					G5	14.15	9.32	90.2	8.01	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.15	10.79	104.0	8.08	A4	14.15	9.85	95.3	8.04	
					A5	14.15	9.70	93.8	8.02	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.05	10.81	104.1	8.08	R2	14.15	10.04	97.0	8.04	
					R3	14.15	10.08	97.3	8.04	
					MAMA	14.15	10.83	104.2	8.09	

\*N2 psi/sup:

\*CO2 psi/sup: 20.625

Date & Time	Name of person collecting data:									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.8	3.49	33.4	7.55	P1	13.55	3.29	31.3	7.46	
					P2	13.55	2.99	28.5	7.44	
					P3	13.45	2.96	28.1	7.44	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0	10.68	102.7	8.11	G1	13.8	9.82	94.0	8.07	
					G2	13.45	8.03	76.3	7.98	
					G3	13.7	9.88	94.5	8.06	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	14.05	10.75	103.3	8.11	A1	13.85	10.15	97.5	8.07	
					A2					
					A3	13.85	9.74	93.5	8.05	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.75	3.40	32.5	7.55	R1	13.7	3.05	29.0	7.52	turned N2 pressure down
					LTB	13.7	3.55	33.9	7.54	pH b 0.02
					LAB	14.0	10.55	101.4	8.09	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.75	4.07	39.0	7.55	P4	13.55	3.57	34.1	7.44	Low flow in bath; flows fixed
					P5	13.25	2.48	23.4	7.40	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.95	10.80	103.8	8.12	G4	13.5	9.52	90.6	8.06	
					G5	13.6	9.44	89.9	8.06	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.95	10.85	104.1	8.11	A4	13.7	10.19	97.4	8.09	
	8.1h				A5	13.75	10.02	96.0	8.07	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.95	10.81	103.8	8.11	R2	13.45	8.85	84.0	8.02	low flow in bath
	\$8.1h				R3	13.6	9.79	93.4	8.06	
					MAMA	14.05	10.89	104.6	8.48	

\*N2 psi/sup:30 psi/sup: 51.544 Kpsi/sup: \*CO2 psi/sup: 19.590

Date & Time:		Name of person collecting					a: Mahlon S			
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.0	3.74	35.4	7.46	P1	14.1	3.39	32.8	7.37	
					P2	14.1	2.95	28.5	7.36	
					P3	14.1	3.01	29.1	7.36	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.0	10.88	97.9	7.92	G1	14.2	10.02	97.1	8.05	
					G2	14.2	9.30	90.2	8.02	
					G3	14.2	9.97	96.6	8.05	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.1	10.57	100.4	7.98	A1	13.9	10.00	96.4	8.02	
					A2	—	—	—	—	Parturition/birth
					A3	13.9	9.87	95.2	8.02	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.2	3.29	31.2	7.54	R1	13.6	(2.22)	21.2	7.41	
							???			
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.2	4.10	39.0	7.58	P4	13.3	(3.72)	35.4	7.43	
					P5	13.5	3.02	28.9	7.41	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.0	10.50	99.3	7.94	G4	13.7	9.71	93.2	7.96	
					G5	13.6	9.60	91.9	7.95	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.0	10.31	97.3	7.93	A4	13.3	10.09	96.2	7.98	
					A5	13.5	10.06	96.4	7.99	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.2	10.43	98.8	7.95	R2	13.6	9.65	92.3	7.95	
					R3	13.6	9.84	94.2	7.96	
					MAMA	13.0	10.04	94.8	7.95	

\*N2 psi/sup:

\*CO2 psi/sup:

TR: 12 3 12 mm 1 20 3 17.171

AB: 12.5 110.49 1100.2 1x m

Date & Time	Name of person collecting data: Dailyn + Nicolle									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.1	4.11	39.7	7.43	P1	13.8	3.55	34.2	7.45	DO + pH set points ↓
					P2	13.8	3.34	32.1	7.44	
					P3	13.8	3.31	31.8	7.44	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.74	103.8	8.09	G1	13.9	10.33	99.6	8.07	
					G2	13.9	9.83	94.6	8.05	
					G3	13.9	9.92	95.6	8.06	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	14.1	9.99	96.7	8.09	A1	14.0	10.19	98.3	8.07	
					A2	—	—	—	—	parturition!
					A3	14.0	10.18	98.2	8.06	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.1	3.41	32.9	7.46	R1	14.1	3.10	30.0	7.47	DO + pH set points ↓
					P4	13.8	3.05	29.2	7.41	
					P5	13.8	2.91	27.9	7.41	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0	10.82	104.6	8.09	G4	14.1	9.98	96.5	8.06	
					G5	14.0	9.70	93.6	8.05	
					A4	14.0	10.58	102.2	8.08	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	14.0	10.70	103.3	8.09	A5	14.0	10.57	102.0	8.08	flows set at 70ml/s
					R2	14.0	10.15	97.8	8.05	
					R3	13.9	10.58	101.9	8.05	found 1 dead fish
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.0	10.71	103.5	8.09	MAMA	14.1	9.98	96.3	8.11	
					all adult flows adjusted to ~45 ml/s					

\*N2 psi/sup: 235 psi / full \*CO2 psi/sup: 26 / 600 psi

all adult flows adjusted  
to ~45 ml/s

Date & Time: 3/2/24 1:30 pm					Name of person collecting data: Sam					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.2	3.59	34.9	7.45	P1	14.2	3.02	32.4	7.39	
					P2	14.2	3.02	29.4	7.32	
					P3	14.2	3.00	29.3	7.37	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.73	104.2	8.08	G1	14.1	10.22	99.4	8.06	
					G2	14.1	9.76	94.9	8.05	
					G3	14.1	9.68	99.0	8.04	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1	10.71	104.1	8.08	A1	14.1	10.14	98.6	8.06	
					A2	14.1	9.87	96.0	8.05	
					A3	14.1	9.88	96.1	8.05	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.3	2.91	28.5	7.48	R1	14.2	2.82	27.5	7.42	variable today DO No adjustments made but should monitor
					P4	14.2	2.78	27.1	7.34	100% 1.5"
					P5	14.2	2.72	26.6	7.39	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.2	3.51	34.1	7.42	G4	14.3	9.89	96.6	8.03	
					G5	14.3	9.90	96.7	8.05	
					A4	14.2	10.45	101.6	8.06	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.2	10.81	105.2	8.08	A5	14.2	10.44	101.6	8.07	
					R2	14.2	9.35	96.1	8.03	+flow increased
					R3	14.3	9.31	92.9	8.03	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2	10.68	103.9	8.08	MAMA	14.1	10.73	104.1	8.09	

\*N2 psi/sup: ~1/2 > 1/3 \*CO2 psi/sup: ~10 / 600

Date & Time: 7/2/2024 9:00 AM					Name of person collecting: J. Smith					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.2°C	3.43	33.4%	7.54	P1	14.0°C	4.29	41.6%	7.48	Down pipes off, ↑ O <sub>2</sub> 2%
					P2	13.9°C	3.46	33.4%	7.45	
					P3	13.9°C	3.22	31.2%	7.45	pH adjusted down 0.3
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.73	104.4	8.08	G1	14.1	10.27	99.7	8.07	
					G2	14.0	10.01	97.1	8.07	
					G3	14.0	9.62	93.3	8.03	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1	10.81	105.2	8.08	A1	14.1	10.21	99.7	8.07	
					A2	14.1	9.87	95.9	8.04	
					A3	14.1	9.90	96.2	8.04	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.2	3.13	30.5	7.35	R1	14.0	3.06	29.7%	7.49	pH adjusted down 0.3
					P4	14.1	3.81	36.9	7.42	Adjusted O <sub>2</sub> down 2%
					P5	14.1	3.65	35.3	7.40	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.70	104.1	8.08	G4	14.0	9.81	95.1	8.04	
					G5	13.9	9.67	93.7	8.04	
					A4	14.2°C	10.30	100.1%	8.06	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2	10.77	104.8	8.08	A5	14.2°C	10.43	101.4%	8.06	
					R2	13.9	9.56	92.5	8.04	
					R3	13.9	9.60	92.9	8.04	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.0	10.66	103.5	8.08	MAMA	14.1	10.81	105.3	8.09	

\*N2 psi/sup: < 20, 00

\*CO2 psi/sup: < 12, 71/3

Date & Time:					Name of person collecting					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.8	3.54	34.2	7.46	P1	14.0	3.24	31.5	7.47	pH ↓ .01
					P2	14.05	2.96	28.8	7.45	
					P3	14.1	3.05	29.7	7.45	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.95	10.57	102.4	8.04	G1	14.05	9.92	96.5	8.00	
					G2	14.05	9.72	94.0	8.00	
					G3	14.05	9.71	94.5	8.00	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.0	10.56	102.3	8.04	A1	13.95	9.82	95.3	8.00	
					A2	14.05	9.70	94.2	8.00	
					A3	14.05	9.81	95.4	8.00	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.85	3.33	32.2	7.56	R1	14.25	3.01	29.4	7.50	pH ↓ .01
										OK
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.85	4.14	40.0	7.54	P4	14.15	3.05	29.6	7.43	
					P5	14.1	2.93	28.5	7.41	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.05	10.45	101.5	8.03	G4	14.25	9.74	94.8	8.01	
					G5	14.25	9.53	92.9	8.01	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.0	10.50	101.8	8.03	A4	14.50	7.87	77.7	7.95	Flow Adjusted and now they're good!
					A5	14.05	7.34	72.2	7.93	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.05	10.57	104.0	8.09	R2	14.25	9.34	91.2	8.00	
					R3	14.25	9.45	92.2	8.00	
					MAMA	14.05	10.58	102.7	8.05	

\*N2 psi/sup: F111 \*CO2 psi/sup: 18 / (000)

Date & Time	Name of person collecting data:									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.45	3.41	33.3	7.50	P1	14.35*	3.30	32.2	7.52	pH ↓ .02
					P2	14.2	3.01	29.2	7.50	
					P3	14.2	3.10	30.2	7.56	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.25	10.66	103.9	8.14	G1	14.25	10.09	98.3	8.10	
					G2	14.25	9.79	95.4	8.14	
					G3	14.25	9.85	95.8	8.09	
					A1	14.25	9.23	89.8	8.09	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.25	10.15	104.7	8.18	A2	14.25	9.91	96.5	8.10	
					A3	14.25	9.84	95.9	8.09	
					R1	14.2	3.06	29.7	7.57	pH ↓ .03
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.35	3.18	31.0	7.55	P4	14.1	3.10	30.0	7.43	
					P5	14.1	3.13	30.3	7.43	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.25	10.05	103.7	8.10	G4	14.25	9.79	95.4	8.06	
					G5	14.30	9.64	93.9	8.06	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.25	10.74	104.5	8.10	A4	14.30	9.72	94.8	8.06	
					A5	14.30	9.68	94.5	8.10	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.30	10.65	103.6	8.10	R2	14.20	9.48	92.0	8.04	
					R3	14.25	9.70	94.4	8.00	
					MAMA	14.3	10.80	103.2	8.10	

\*N2 psi/sup:

\*CO2 psi/sup: 18 / 570

Date & Time:	Name of person collecting				Date: 12/24/24					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.6	3.65	35.8	7.49	P1	14.6	3.39	33.2	7.51	PH1 0.03
					P2	14.6	3.08	30.1	7.51	DO 1%
					P3	14.6	3.24	31.6	7.51	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.55	10.93	107.2	8.09	G1	14.55	10.23	100.0	8.05	
					G2	14.55	9.75	95.2	8.01	
					G3	14.45	9.70	94.8	8.01	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	14.55	10.94	107.2	8.09	A1	14.55	10.20	99.8	8.05	
					A2	14.55	9.88	96.8	8.03	
					A3	14.55	9.96	97.1	8.05	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.55	3.43	33.6	7.55	R1	14.56	3.40	33.2	7.56	PH1 0.03 / DO 2%
					P4	14.45	2.73	26.5	7.41	DO 2%
					P5	14.4	2.80	27.2	7.42	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.65	10.90	106.8	8.09	G4	14.45	9.84	96.1	8.02	
					G5	14.45	9.73	95.0	8.00	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	14.65	10.90	106.7	8.09	A4	14.56	10.28	100.6	8.05	
					A5	14.56	10.22	100.0	8.05	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.65	10.89	106.6	8.09	R2	14.45	9.32	90.8	7.98	
					R3	14.4	9.66	94.1	8.01	
					MAMA	14.56	10.99	107.7	8.09	

DO: 8 am ; pH: 10 am										
Date & Time	Name of person collecting data: D. 10 am and Nicolle									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.9	3.55	42.0	6.84	P1	13.7	3.39	40.0	6.51	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	9.38	111.1		P2	13.5	3.28	38.5	6.79	
					P3	13.5	3.31	38.9	6.78	
					G1	13.5	8.96	105.6		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.8	9.35	110.7	7.02	G2	13.4	8.64	101.4		
					G3	13.3	8.52	99.9		
					A1	12.7	3.13	36.4		No flow (down pipe)
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.8	3.08	36.5	6.79	A2	13.5	8.57	100.9		
					A3	13.5	8.60	101.0	7.01	
					R1	13.5	3.32	39.0	6.68	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.32	39.1	6.88	P4	12.8	3.12	36.3	6.89	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.9	9.35	110.7	7.17	P5	12.8	3.05	35.4	6.68	
					G4	13.5	8.59	100.9	7.05	
					G5	13.4	8.60	100.8		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.7	9.20	108.5		Header flow decreased slightly					
					A4	13.2	8.35	97.5		flow increased
					A5	12.9	3.50	40.8		flow increased
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.8	9.30	110.1		Header flow increased					
					R2	13.1	8.19	95.6		
					R3	13.2	8.39	98.2		
					MAMA	13.8	9.30	110.0		

\*N2 psi/sup: 30 psi / full \*CO2 psi/sup: 19 / 600

Black not Super friend with no idea did about it. I think it's all fine

Date & Time:		2/28/24 3:00 pm		Name of person collecting:		Data: Dina + Saphira				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.4	3.77	35.0	7.52	P1	12.6	3.56	33.3	7.45	Flow △
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.4	9.83	91.6	7.77	P2	12.8	3.33	31.2	7.42	Flow △
					P3	12.8	3.35	31.5	7.42	Flow △
					G1	13.0	9.20	86.7	7.79	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	12.4	10.17	94.8	7.78	G2	13.0	8.89	83.9	7.78	
					G3	13.0	8.92	84.2	7.78	
					A1	13.0	8.73	82.3	7.78	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	12.5	3.57	33.3	7.49	A2	13.0	9.01	85.0	7.78	
					A3	13.1	8.78	83.2	7.78	
					R1	12.9	3.75	35.4	7.47	pH no △, issue with manometer
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.5	3.96	36.9	7.40	R2	7.48	DO no change → pipe was "bubbling" + flow			
					P4	13.2	3.22	30.5	7.39	Flow △
					P5	13.1	3.28	31.1	7.43	+ leaving for now to decide future
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	12.5	9.78	91.4	7.76	G4	13.0	9.07	85.6	7.80	
					G5	13.0	8.79	83.1	7.80	
					A4	12.9	8.92	84.0	7.79	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.7	10.17	95.5	7.79	A5	13.1	8.96	84.9	7.80	
					R2	13.0	8.52	80.6	7.77	
					R3	12.8	9.16	86.0	7.76	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.5	10.35	96.6	7.78	MAMA	13.0	10.89	103.2	7.86	MAP manometer dropped due to shut off for cleaning + refilled during measurement

\*N2 psi/sup: 22/300 psi

\*CO2 psi/sup: ~21 psi / 600 psi

Date & Time	Feb 28, 2024 1:30pm					Name of person collecting data: Dunn + Lorenzo				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.1	3.69	35.6	7.98	P1	14.1	3.48	33.7	7.53	
					P2	14.1	3.09	29.9	7.49	Flow ↑
					P3	14.1	3.19	31.0	7.49	pH ↓ overshoot yesterday w/c pH runs too low
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0	10.12	97.7	7.97	G1	14.2	9.93	96.3	7.97	
					G2	14.2	9.66	93.9	7.95	
					G3	14.2	9.60	93.3	7.95	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1	10.13	98.0	7.97	A1	14.2	9.77	94.8	7.95	
					A2	14.2	9.68	93.8	7.95	
					A3	14.2	9.79	95.1	7.95	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.1	3.65	35.4	7.95	R1	14.1	3.78	36.6	7.49	Flow ↓ OH ↓ gas flow appears to be less / much required than old headers
					P4	14.0	3.04	29.3	7.42	
					P5	14.0	2.97	28.7	7.41	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.19	98.7	7.99	G4	14.2	9.67	93.8	7.97	
					G5	14.2	9.61	93.3	7.96	
					A4	14.1	9.42	91.4	7.95	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.0	10.23	98.8	7.98	A5	14.1	9.38	91.0	7.94	
					R2	13.9	9.39	90.6	7.93	
					R3	14.1	9.44	91.4	7.95	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.9	10.17	98.2	7.98	MAMA	13.9	10.02	96.7	7.97	

\*N2 psi/sup: 16 psi <1/4 in \*CO2 psi/sup: 600 psi 200 psi

A \ O .. 2A ...

Date & Time: Feb 27th, 2024 2:50pm					Name of person collecting data: Dunn + Swain					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	12.5 °C	3.63	33.9%	7.13	P1	12.8 °C	3.34	31.4%	7.18	←
					P2	12.9 °C	3.16	29.7%	7.16	Flow adjusted for DO
					P3	13.1 °C	2.94	27.9%	7.16	← pH ↑
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.6 °C	10.22	98.0%	7.90	G1	13.0 °C	9.18	86.9%	7.80	
					G2	13.0 °C	8.75	82.9%	7.78	
					G3	13.0 °C	8.83	83.5%	7.78	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.7 °C	10.44	100.5%	7.92	A1	13.0 °C	9.49	89.9%	7.81	
					A2	13.0 °C	9.09	85.8%	7.79	
					A3	13.0 °C	9.05	85.5%	7.78	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.1 °C	3.86	36.6%	7.13	R1	14.0 °C	2.50	24.2%	7.18	← pH ↑ OR ↑
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	12.8 °C	3.81	35.8%	7.37	P4	13.0 °C	2.87	27.1%	7.38	✓ OH ↑ prob cleaned
					P5	13.0 °C	2.82	26.7%	7.36	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.0 °C	9.62	90.6%	7.83	G4	12.9 °C	8.73	82.5%	7.78	
					G5	12.9 °C	8.70	82.1%	7.78	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	12.9 °C	9.56	89.9%	7.85	A4	13.0 °C	8.61	81.5%	7.78	
					A5	13.2 °C	8.92	84.8%	7.79	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	12.9 °C	9.76	92.1%	7.83	R2	12.9 °C	8.37	78.9%	7.76	
					R3	12.8 °C	8.67	81.6%	7.76	
					MAMA	14.1 °C	10.67	103.3%	7.96	

\*N2 psi/sup: 245 psi <1/2 full \*CO2 psi/sup: 24 psi 60°

Date & Time	2/27/24 7 Am					Name of person collecting data: Madison				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.6	3.52	33.8	7.37	P1	13.6	3.28	31.4	7.43	
					P2	13.55	3.18	30.1	7.42	
					P3	13.45	3.06	29.2	7.42	
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	13.8	10.54	101.3	7.96	G1	13.7	9.93	95.1	7.94	
					G2	13.6	9.61	91.9	7.93	
					G3	13.6	9.70	93.4	7.93	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.8	10.56	101.5	7.97	A1	13.75	10.02	96.2	7.94	
					A2	13.6	9.85	94.3	7.93	
					A3	13.6	9.77	93.5	7.93	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.45	3.96	37.8	7.59	R1	13.4	3.00	30.5	7.45	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.65	3.60	34.6	7.40	P4	13.45	3.01	28.7	7.41	
					P5	13.4	2.87	27.3	7.41	
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	13.65	10.46	100.4	7.96	G4	13.45	9.74	92.9	7.93	
					G5	13.4	9.49	90.5	7.91	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.65	10.52	100.6	7.96	A4	13.4	9.42	89.8	7.91	
					A5	13.4	9.37	89.3	7.91	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.65	10.52	100.9	7.96	R2	13.4	9.23	87.8	7.90	
					R3	13.4	9.52	90.7	7.91	
					MAMA	13.8	10.59	101.8	7.97	

\*N2 psi/sup:

\*CO2 psi/sup:

Date & Time					Name of person collecting data:					Adjusted flow or set points?		
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH			
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.95	3.49	33.6	7.94	P1	13.7	3.24	31.1	7.35	pH↑ 0.02		
					P2	13.6	3.13	27.9	7.34	DO↓ 1%		
					P3	13.6	3.12	29.9	7.34			
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	10.33	99.5	7.92	G1	13.8	9.91	95.4	7.91			
					G2	13.8	9.80	94.1	7.91			
					G3	13.8	9.83	94.7	7.91			
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.8	10.32	99.3	7.92	A1	13.8	10.07	97.0	7.92			
					A2	13.8	9.76	93.9	7.91	1 f. s. looking very plump		
					A3	13.8	9.79	94.1	7.91			
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.65	3.64	35.0%	7.48	R1	13.6	3.43	32.8	7.35	pH↑ 0.02, DO↓ 2%		
					P4	13.65	2.99	28.6	7.33	pH↑ 0.03, DO↓ 1%		
					P5	13.6	2.88	27.5	7.33			
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	10.45	100.6	7.92	G4	13.65	9.88	94.8	7.90			
					G5	13.65	9.84	94.3	7.90			
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.8	10.38	99.9	7.92	A4	13.65	9.91	95.0	7.90			
					A5	13.65	9.83	94.2	7.90			
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.8	10.37	99.8	7.92	R2	13.65	9.54	91.3	7.88			
					R3	13.65	9.84	94.3	7.90			
					MAMA	13.8	10.33	99.3	7.92			

\*N2 psi/sup: 35-lb/psig \*CO2 psi/sup: 18 psig; 600

High salt, 100% N2, 100% CO2, 100% air, 100% water

Date & Time:		4:45 9/26/24		Name of person collecting		Data:		DO, pH		Adjusted flow or set points?	
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH		
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.35	3.32	32.4	7.95	P1	14.1	2.95	28.6	7.37	pH ↑ 0.01	
					P2	14.0	2.83	27.4	7.37	DO ↑ 1%	
					P3	14.0	2.83	27.4	7.38		
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.2	10.52	102.4	7.96	G1	14.15	9.80	95.1	7.91		
					G2	14.1	9.44	91.5	7.88		
					G3	14.0	9.45	91.5	7.87		
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2	10.53	102.5	7.96	A1	14.1	9.97	96.9	7.92		
					A2	14.1	9.65	93.6	7.91		
					A3	14.0	9.47	91.7	7.89		
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.05	3.68	35.7	7.40	R1	14.05	2.57	25.0	7.32	DO ↑ 3% pH ↑ 0.03	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.15	3.54	34.5	7.50	P4	13.9	2.82	27.2	7.35	pH ↑ 0.01	
					P5	13.9	2.75	26.5	7.36	DO ↑ 1%	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.2	10.37	100.9	7.95	G4	13.9	9.43	91.0	7.85		
					G5	13.8	9.36	90.4	7.85		
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.15	10.47	101.8	7.95	A4	13.8	9.39	90.6	7.85		
					A5	13.9	9.49	90.8	7.85		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.15	10.48	102.0	7.95	R2	13.8	9.27	89.4	7.84		
					R3	13.8	9.17	91.4	7.85		
					MAMA	14.2	10.56	102.7	7.96		

\*N2 psi/sup: 35-40; \*CO2 psi/sup: 19; 625

Date & Time: 1-25-24 1:51pm					Name of person collecting: Daigant Marion					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.4	3.60	34.3	7.41	P1	14.1	3.26	31.5	7.34	slightly bubbling down pipe
					P2	13.6	3.10	29.7	7.32	
					P3	13.7	3.00	28.8	7.32	pH setpoint ↑
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	10.06	96.8	7.95	G1	13.4	8.72	83.2	7.85	
					G2	13.0	8.48	81.2	7.85	
					G3	13.5	8.71	83.0	7.85	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	13.5	9.80	93.5	7.92	A1	13.4	9.12	80.8	7.87	bubbling down pipe
					A2	13.4	8.60	81.8	7.84	
					A3	13.4	8.08	82.8	7.84	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.4	3.95	37.6	7.45	R1	14.2	2.85	27.5	7.32	DO + pH setpoint ↑
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.2	3.49	33.2	7.39	P4	13.5	2.90	27.6	7.34	DO + pH setpoint ↑
					P5	13.5	2.76	26.4	7.34	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	9.87	94.8	7.94	G4	13.6	8.64	82.7	7.86	
					G5	13.6	8.63	82.6	7.86	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.8	10.07	96.9	7.94	A4	13.5	8.75	83.6	7.86	
					A5	13.8	9.14	86.0	7.86	bubbling down pipe
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.8	10.09	97.0	7.94	R2	13.5	8.25	78.9	7.83	
					R3	13.5	8.02	76.7	7.82	flow adjusted ↑
					MAMA	14.1	10.46	101.4	7.99	

\*N2 psi/sup: 245 psi/sup: 1/2 \*CO2 psi/sup: 21 / 1050 psi

Date & Time		2-25-24 8:41am		Name of person collecting data: Dailyn + Nicolle						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.0	3.73	36.9	7.23	P1	14.0	3.52	33.8	7.30	DO setpoint ↓
					P2	13.9	3.22	30.9	7.28	pH setpoint ↑
					P3	13.9	3.16	30.4	7.28	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0	10.10	97.4	7.97	G1	14.0	9.38	90.4	7.95	
					G2	14.0	9.36	90.1	7.95	
					G3	14.0	9.56	92.1	7.95	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.0	7.97	97.3	7.97	A1	14.0	9.93	95.8	7.96	
					A2	14.1	9.73	93.9	7.95	
					A3	14.1	9.64	93.3	7.95	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.0	4.09	39.3	7.39	R1	13.9	3.79	36.5	7.35	DO setpoint ↓, pH setpoint ↑
					P4	13.9	3.16	30.3	7.33	DO setpoint ↓, pH setpoint ↑
					P5	13.9	3.16	30.4	7.33	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.05	97.2	7.98	G4	14.1	9.43	90.9	7.95	
					G5	14.1	9.26	89.5	7.94	
					A4	14.1	9.82	95.0	7.98	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1	10.07	97.3	8.01	A5	14.1	9.82	94.9	7.96	
					R2	14.1	9.44	91.1	7.95	
					R3	14.1	9.17	88.5	7.92	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.1	10.10	97.5	7.98	MAMA	13.9	10.00	96.4	8.00	

\*N2 psi/sup: 145 psi / 1/2 fad \*CO2 psi/sup: 19 / 600 psi

all flows adjusted to 1/2 fad.

Date & Time:		1:06 pm 2/24/20		Name of person collecting data: Sam, Joey, & Loreta							
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.2	3.64	36.3	7.08	P1	14.7	3.35	33.0	7.15	↑ pH set point	
					P2	14.6	3.00	29.4	7.13		
					P3	14.6	3.00	29.6	7.13		
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	14.0	10.20	92.7	7.93	G1	14.4	9.60	94.1	7.90		
					G2	14.5	9.42	92.2	7.89		
					G3	14.5	9.56	93.6	7.89		
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	14.0	10.16	98.3	7.93	A1	14.3	9.74	95.0	7.90		
					A2	14.3	9.67	94.4	7.90		
					A3	14.3	9.38	91.7	7.90	Flow off, 9.38 mg/L DO	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.2	3.83	37.3	7.29	R1	14.6	3.74	36.7	7.14	↑ pH set point 0. ↓ DO	
					P4	14.3	3.18	31.1	7.22	↑ pH set point	
					P5	14.3	3.07	30.0	7.22		
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	14.1	10.06	97.6	7.93	G4	14.6	9.43	92.5	7.90		
					G5	14.6	9.5	93.2	7.90		
					A4	14.6	9.76	95.4	7.91		
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	14.2	10.10	98.0	7.93	A5	14.6	9.67	94.7	7.90		
					R2	14.3	9.25	90.1	7.89		
					R3	14.3	9.22	88.8	7.89		
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.1	10.13	98.2	7.93	MAMA	14.0	10.26	99.4	7.93		

\*N2 psi/sup: ~245 psi;  $\text{CO}_2$  psi/sup: ~10 psi

Date & Time	Name of person collecting					Data: Sam & Jazmin				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.1	3.82	32.0	7.48	P1	14.1	3.42	33.1	7.48	*high DO pH↑
					P2	14.1	3.12	30.2	7.48	
					P3	14.1	3.10	30.0	7.48	↓
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	14.0	10.48	101.1	8.25	G1	14.0	9.88	95.2	8.23	
					G2	14.0	9.88	92.5	8.21	
					G3	14.0	9.69	93.5	8.21	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	14.0	10.49	101.3	8.25	A1	14.1	10.18	98.4	8.24	
					A2	14.1	9.86	95.4	8.22	Very plump fish
					A3	14.1	9.91	95.5	8.22	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.1	3.51	33.9	7.95	R1	14.1	3.15	30.4	7.56	* little high
					P4	14.1	3.85	32.4	7.53	High DO, ↓ pH
					P5	14.1	2.99	28.9	7.50	
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	14.1	10.34	99.9	8.25	G4	13.9	9.42	90.7	8.20	
					G5	13.9	9.45	91.0	8.20	
					A4	13.9	10.03	96.7	8.23	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	14.0	10.48	101.2	8.25	A5	13.9	9.70	94.1	8.21	lots of bubbles
					R2	13.8	9.51	91.5	8.21	
					R3	13.9	9.45	91.0	8.21	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.0	10.47	101.1	8.25	MAMA	14.1	10.45	100.9	8.23	

\*N2 psi/sup: 1/2 full \*CO2 psi/sup: ~20 psi

\*pH probe read high this morning. Calibrated @ 12:15pm, 7.15 pH read for present treatments

Date & Time	2/23/24 → 1:30					Name of person collecting	Data: Madison, Caitlyn, Monte			
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.1°C	3.85	37.2	7.47	P1	14.4°C	3.42	33.3	7.44	
					P2	14.3°C	3.12	30.3	7.43	
					P3	14.3°C	3.08	30.0	7.43	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0°C	10.29	99.4	8.24	G1	14.3°C	9.84	95.7	8.19	
					G2	14.3°C	9.68	94.0	8.20	
					G3	14.3°C	9.57	93.0	8.18	
					A1	14.2°C	10.05	97.4	8.30	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.0°C	10.25	98.9	8.24	A2	14.2°C	9.58	93.0	8.17	
					A3	14.2°C	9.95	96.5	8.20	
					R1	14.3°C	3.02	29.4	7.53	↓ pH .02
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.1°C	3.32	32.1	7.60	P4	14.2°C	2.87	27.9	7.49	↑ DO 19, ↓ pH .01
					P5	14.1°C	2.86	27.7	7.49	
					G4	14.2°C	9.56	92.8	8.26	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0°C	10.26	99.3	8.24	G5	14.2°C	9.35	90.8	8.18	
					A4	14.2°C	9.33	90.4	8.17	
					A5	14.2°C	9.24	89.7	8.17	
					R2	14.2°C	9.43	91.4	8.19	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1°C	10.27	99.3	8.23	R3	14.2°C	9.40	91.2	8.19	
					MAMA	14.0°C	10.22	98.5	8.24	

\*N2 psi/sup: 12 psi

\*CO2 psi/sup:

550 psi

Date & Time	2/23/24 9:00 11:20					Name of person collecting data: Madison, Karla, Skyler				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.85	3.77	36.3	7.40	P1	13.75	3.53	33.9	7.48	pH .01 ↓ ✓
					P2	13.75	2.97	28.4	7.46	
					P3	13.75	3.06	29.3	7.46	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	10.39	99.6	8.24	G1	13.85	10.32	99.1	8.22	
					G2	13.75	10.28	98.6	8.21	
					G3	13.75	10.25	98.4	8.21	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.8	10.51	100.8	8.24	A1	13.85	10.51	100.9	8.22	
					A2	13.75	10.39	99.6	8.20	
					A3	13.75	10.51	100.0	8.21	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.8	3.28	31.5	7.67	R1	13.75	2.79	26.7	7.56	*137. DO ↓ 0.02 PH ✓
					P4	13.65	2.87	27.4	7.49	
					P5	13.6	2.91	27.9	7.49	↓0.01 pH ↑1% DO
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	10.37	99.5	8.24	G4	13.45	9.60	91.6	8.20	
					G5	13.45	9.65	92.1	8.21	
					A4	13.10	6.00	56.7	8.02	took stand pipe off & back on
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.8	10.34	99.3	8.24	A5	13.10	3.36	31.7	7.85	took stand pipe off and back on
					R2	13.55	9.56	91.6	8.21	
					R3	13.45	9.28	88.3	8.20	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.8	10.36	99.4	8.24	MAMA	13.80	10.36	99.4	8.24	

\*N2 psi/sup: 75 1/2 + 11 \*CO2 psi/sup: 21 psi / 300

I believe this is  
supposed to be  
2/22/24

Date & Time: 2/23/24 2:11pm					Name of person collecting: Dan + Janice					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.3°C	3.51	33.8%	7.38	P1	14.4°C	3.58	34.7%	7.45	→ NO fish ↓ ↗
					P2	14.5°C	3.08	30.0%	7.39	
					P3	14.65°C	2.98	29.1%	7.39	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.2°C	10.44	100.5%	8.21	G1	14.5°C	10.42	101.3%	8.19	
					G2	14.6°C	10.35	100.7%	8.19	
					G3	14.6°C	10.33	100.6%	8.19	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2°C	10.62	102.3%	8.21	A1	14.6°C	10.35	100.6%	8.18	
					A2	14.6°C	10.23	99.8%	8.16	
					A3	14.6°C	10.38	101.3%	8.17	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.4°C	3.25	31.5%	7.51	R1	14.65°C	2.56	24.9%	7.36	DO ↑
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.25°C	3.34	32.2%	7.56	P4	14.4°C	2.83	27.4%	7.45	Header bubbling (most stable DO)
					P5	14.4°C	2.83	27.4%	7.45	DO ↑
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.2°C	10.62	102.3%	8.21	G4	14.5°C	9.91	96.2%	8.18	
					G5	14.5°C	9.96	96.6%	8.18	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2°C	10.56	101.8%	8.21	A4	14.6°C	9.09	88.4%	8.13	
					A5	14.7°C	9.23	90.1%	8.13	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.2°C	10.54	101.4%	8.21	R2	14.3°C	10.09	97.3%	8.18	
					R3	14.4°C	9.83	94.9%	8.18	
					MAMA	14.2	10.36	99.5%	8.21	

\*N2 psi/sup: 3144 ft CUL 240 psi \*CO2 psi/sup: 23 psi 310 psi

Date & Time	Name of person collecting data: Sofia + Quinn									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.7	3.72	35.5	7.45	P1	13.6	3.73	35.3	7.47	↓ pH
					P2	13.5	5.12	48.5	7.47	lower set point (14)
					P3	13.5	3.59	34.1	7.45	cleared at air bubbles in line
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.7	10.01	95.3	8.16	G1	13.7	10.28	97.6	8.19	
					G2	13.5	10.33	97.9	8.17	
					G3	13.5	10.38	98.4	8.17	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.5	10.07	95.6	8.20	A1	13.5	10.45	98.9	8.01	
					A2	13.4	10.44	98.6	8.15	
					A3	13.4	10.57	99.7	8.17	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.6	3.55	33.8	7.47	R1	13.6	3.24	30.8	7.43	
					P4	13.6	3.34	31.8	7.49	↓ pH set point
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.6	4.24	40.4	7.53	P5	13.6	3.13	29.8	7.48	↓ pH set point
					G4	13.7	9.41	89.4	8.17	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.7	9.80	93.4	8.17	G5	13.6	9.49	90.1	8.17	
					A4	13.7	9.55	90.6	8.16	
					A5	13.7	9.24	87.8	8.15	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.7	9.92	94.4	8.20	R2	13.6	9.48	90.0	8.18	
					R3	13.6	9.33	88.4	8.18	
					MAMA	13.7	9.95	94.8	8.20	
*N2 psi/sup: 3/4 psi full 24psi *CO2 psi/sup: 25 psi 400 psi water table										
temp   DO (mg/L)   DO %   pH					ambient temp   DO (mg/L)   DO %   pH					
14.0   9.72   93.2   8.15					L   14.0   9.72   93.2   8.15					

Date & Time		Name of person collecting				Data:				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.4	3.57	34.5	7.4	P1	14.5	3.67	35.8	7.42	Up <sup>4</sup>
					P2	14.5	3.15	30.6	7.40	
					P3	14.6	3.30	32.3	7.46	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.3	10.39	100.3	8.15	G1	14.6	10.48	101.9	8.17	
					G2	14.6	10.35	100.9	8.15	
					G3	14.6	10.24	100.0	8.14	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	14.2	10.65	102.7	8.18	A1	14.9	10.23	100.4	8.08	
					A2	14.8	10.28	100.6	8.14	
					A3	14.8	10.41	101.7	8.14	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.4	2.95	28.6	7.38	R1	14.5	3.08	30.0	7.36	Hold for now
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.3	4.64	39.0	7.54	P4	14.4	3.23	31.4	7.46	Up <sup>11</sup>
					P5	14.4	3.11	30.1	7.46	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.3	10.57	102.1	8.14	G4	14.4	10.02	97.2	8.14	
					G5	14.4	10.00	97.1	8.14	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	14.2	10.82	104.3	8.17	A4	14.4	9.26	89.8	8.11	
					A5	14.5	9.55	92.8	8.12	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.4	10.00	97.1	8.14	R2	14.2	10.30	99.4	8.15	
					R3	14.2	10.09	97.4	8.41	
					MAMA	14.2	11.40	110.0	8.18	

\*N2 psi/sup: 242 psi -3/4 \*CO2 psi/sup: 23 psi 500 psi

Date & Time	2/21/24 Name of person collecting data: Quinn + Lorenzo									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.9	3.80	36.3	*	P1	13.9	3.82	36.7	7.47	* Flow adjust 3 pH ↓
				7.44	P2	13.9	3.27	31.4	7.44	
				7.49	P3	13.9	3.25	31.3	7.44	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.9	10.25	98.6	8.18	G1	13.9	10.28	98.8	8.16	
					G2	13.9	10.29	99.0	8.16	
					G3	13.9	10.33	99.5	8.15	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	13.9	10.30	99.0	8.19	A1	13.9	10.39	99.7	8.14	
					A2	13.9	10.34	99.7	8.12	{ flows adjust}
					A3	13.9	10.51	100.8	8.12	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.9	3.04	29.3	7.38	R1	13.9	2.70	26.0	7.47	* pH ↓
					P4	13.9	3.63	34.9	7.46	* pH ↓
					P5	13.9	3.68	35.5	7.46	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.9	10.34	95.5	8.17	G4	13.9	9.60	92.3	8.15	
					G5	13.9	9.58	92.1	8.15	
					A4	14.1	9.69	93.2	8.15	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.9	10.50	100.9	8.18	A5	14.1	10.04	96.8	8.16	
					R2	14.0	9.60	92.2	8.15	
					R3	14.0	9.30	89.3	8.13	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.0	10.65	102.4	8.18	MAMA	14.0	11.23	107.9	8.18	

\*N2 psi/sup: 0.4 psi < Full \*CO2 psi/sup: 22 psi

Date & Time: 2/20/14 7:00pm					Name of person collecting: Dylan & Jasmin					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.1°C	3.40	33.0%	7.19	P12	14.3°C	2.87	28.0%	7.40	→P2 DO↑ 1%
					P13	14.3°C	2.82	27.4%	7.40	→P3
					P3					
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.15°C	10.57	102.5%	8.16	G1	14.15°C	10.15	98.6%	8.15	
					G2	14.25°C	9.67	94.0%	8.13	
					G3	14.25°C	9.75	94.9%	8.14	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.15°C	10.66	103.3%	8.16	A1	14.25°C	10.14	98.5%	8.14	
					A2	14.25°C	9.67	94.2%	8.12	
					A3	14.25°C	9.66	94.0%	8.12	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.3°C	3.13	30.5%	7.56	R1	14.4°C	2.85	27.7%	7.47	DO↑ 1% → H↓ 0.01
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.3°C	4.02	39.1%	7.59	P4	14.3°C	2.97	28.9%	7.46	Header tank actively bubbling; variable flow P1 ↓ 0.02
					P5	14.3°C	3.08	30.0%	7.45	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.15°C	10.54	102.2%	8.16	G4	14.3°C	9.92	96.5%	8.14	
					G5	14.3°C	9.87	96.0%	8.14	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.15°C	10.48	101.6%	8.16	A4	14.3°C	10.02	97.4%	8.14	
					A5	14.3°C	10.06	97.8%	8.14	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.15°C	10.53	102.0%	8.16	R2	14.3°C	9.78	95.1%	8.12	
					R3	14.3°C	9.59	93.4%	8.12	
					MAMA	14.1°C	10.54	102.1%	8.17	

\*N2 psi/sup: 245 psi / full \*CO2 psi/sup: 500 psi / 22

\* TANKS G1-A3 on bubbler overnight due to periods of low flow to G1 & A1

Date & Time		Name of person collecting data: Aimee & Dylan								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.0°	3.68	35.3%	7.46	P1	14.0	2.23	21.6	7.39	Flow stopped over night / <del>A2 &amp; 4</del> <del>fish in tank</del>
					P2	13.9	2.03	28.6	7.41	
					P3	13.9	2.93	28.2	7.41	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0	10.83	102.7%	8.16	G1	14.0	10.27	99.3%	8.15	
					G2	14.0	9.96	96.3%	8.13	
					G3	14.1	10.06	97.4%	8.13	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	14.0	10.61	102.5%	8.16	A1	14.0	10.46	101.0%	8.16	
					A2	14.0	9.93	95.9%	8.13	
					A3	14.0	9.91	95.6%	8.13	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.95	3.10	29.9%	7.40	R1	13.9	3.64	35.1%	7.44	DO ↓ <del>2%</del> ; pH ↓ 0.01 2.5%
						13.9				
					P4	<del>13.9</del>	3.34	32.2	7.47	DO ↓ 2% ; pH ↓ 0.01
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.9	3.70	35.7%	7.49	P5	13.9	3.45	33.2	7.47	
					G4	14.0	9.93	95.7%	8.14	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.0	10.66	100.0%	8.16	G5	14.0	10.07	97.2%	8.14	
					A4	14.0	10.03	96.8%	8.14	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	14.0	10.87	103.0%	8.16	A5	<del>14.0</del>	9.73	93.9%	8.12	
					R2	13.85	9.88	95.1%	8.13	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.0	10.67	102.9%	8.16	R3	13.85	<del>9.87</del>	<del>91.1%</del>	<del>8.12</del>	
					MAMA	14.1	10.99	106.2	8.16	

\*N2 psi/sup: 45 psi / full \*CO2 psi/sup: 24 psi / 500 psi

Wardens 7-4 larval growth over night: no all alive & healthy!

Date & Time:		2-19-24 2:00 - 3:30pm		Name of person collecting data:		Dailyn + Noi				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.6	3.29	32.4	7.38	P1	14.7	3.27	32.3	7.36	DO setpoint ↓, now 32.5
					P2	14.7	3.12	30.8	7.37	
					P3	14.7	3.13	30.9	7.37	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.5	10.62	104.0	8.13	G1	14.7	9.57	94.4	8.12	
					G2	14.7	9.91	92.7	8.10	
					G3	14.7	10.19	100.5	8.11	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.5	10.51	103.1	8.13	A1	14.6	10.39	102.1	8.12	
					A2	14.7	9.88	97.3	8.09	
					A3	14.7	9.84	96.8	8.09	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.5	4.50	44.2	7.40	R1	14.7	3.70	36.4	7.45	not sure if 1 or 7, leaching until morning
					P4	14.7	3.07	30.3	7.11	
					P5	14.6	3.27	32.2	7.41	flows the same, idk why so diff.
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.6	10.57	103.8	8.13	G4	14.7	9.99	98.4	8.11	
					G5	14.7	10.08	99.2	8.11	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.7	10.43	102.5	8.13	A4	14.7	10.02	98.6	8.11	
					A5	14.7	9.74	95.8	8.09	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.5	10.53	103.3	8.13	R2	14.7	3.01	398.2	8.09	
					R3	14.7	9.71	95.6	8.08	
					MAMA	14.3	11.12	108.6	8.13	bubbles coming from mama after water turn off & back on

\*N2 psi/sup: 245 psi / full \*CO2 psi/sup: 23 / 580 psi

Date & Time		2-19-24 9:58am		Name of person collecting data: Dailyn + Neil		11:49am end				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.1	3.63	35.3	7.47	P1	13.8	3.37	32.6	7.40	DO setpoint ↓, now
					P2	13.8	3.21	31.1	7.38	33.0
					P3	13.8	3.19	30.9	7.38	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.65	103.4	8.12	G1	14.1	10.12	98.4	8.09	
					G2	14.1	9.80	95.2	8.06	
					G3	14.1	10.02	97.4	8.09	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.0	10.61	103.0	8.13	A1	14.1	10.45	101.7	8.06	
					A2	14.1	10.14	98.6	8.07	
					A3	14.1	10.05	97.7	8.08	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.1	4.24	41.2	7.56	R1	14.1	3.15	30.6	7.43	DO setpoint ↓, now 32.5
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.1	3.84	37.3	7.43	P4	13.9	3.21	31.1	7.34	DO setpoint ↓, now 32.5
					P5	13.9	3.29	31.9	7.34	pH setpoint ↑, now 7.4
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.52	102.3	8.12	G4	14.1	10.05	97.8	8.09	
					G5	14.1	10.05	97.8	8.09	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2	10.49	102.0	8.12	A4	14.1	10.10	98.2	8.10	
					A5	14.2	10.01	97.5	8.08	bubbling
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.0	10.60	103.0	8.12	R2	14.2	9.94	96.9	8.09	
					R3	14.2	9.86	95.9	8.08	
					MAMA	14.0	10.58	102.7	8.13	

\*N2 psi/sup: 24.3 psi / Full \*CO2 psi/sup: 22 / 500 psi

Date & Time: 2-18-24 3:01 pm					Name of person collecting: Dailyn + Nicolle					Adjusted flow or set points?
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.3	3.54	34.7	7.41	P1	14.4	3.68	36.1	7.36	reset all adult flows to 45mls/s
					P2	14.4	3.59	34.8	7.36	
					P3	14.6	4.06	40.1	7.4	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.33	100.8	8.08	G1	14.4	10.08	99.0	8.07	
					G2	14.4	9.83	96.5	8.04	
					G3	14.4	9.91	97.3	8.04	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1	10.01	100.8	8.09	A1	14.1	10.32	100.8	8.10	
				103.5	A2	14.2	9.94	97.5	8.08	
					A3	14.3	10.07	98.7	8.10	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.1	3.98	38.9	7.26	R1	14.5	3.48	34.3	7.55	
					P4	14.6	3.71	36.6	7.40	
					P5	14.6	3.62	35.6	7.37	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.1	3.68	35.9	3.68	G4	14.4	9.88	97.2	8.05	
					G5	14.4	9.81	96.5	8.06	
					A4	14.4	9.89	97.1	8.05	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.37	101.4	8.12	A5	14.4	9.97	97.8	8.06	bubbling
					R2	14.4	10.01	98.1	8.07	
					R3	14.4	9.98	97.9	8.06	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.1	10.61	103.4	8.09	MAMA	14.0	10.66	103.7	8.09	
	↑									
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.1	10.64	103.8	8.09						
	↓									

\*N2 psi/sup:

\*CO2 psi/sup: 23 / 600 psi

System check up at 11:10 a.m. Mon., rolled over to set point change.

Date & Time	Name of person collecting data:									
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.2	3.67	35.8	7.35	P1	13.9	9.58	92.6	8.07	
					P2	13.9	9.37	90.4	8.06	
					P3	13.9	9.24	89.4	8.05	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.2	10.51	102.4	8.08	G1	14.0	10.06	97.5	8.05	
					G2	14.0	9.96	96.5	8.05	
					G3	14.0	9.77	94.5	8.03	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2	9.96	97.2	8.08	A1	13.6	9.89	95.0	7.79	had no flow until downpipe off @11:16am
					A2	14.0	10.13	98.3	8.05	
					A3	14.1	9.97	96.9	8.05	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	14.2	3.87	37.7	7.21	R1	14.0	9.94	96.3	8.04	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	14.1	10.27	99.7	8.07	P4	13.9	9.87	84.7	8.04	
					P5	13.9	8.99	86.9	8.05	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	14.1	10.43	101.4	8.07	G4	14.1	9.86	95.7	8.04	
					G5	14.1	9.83	95.7	8.04	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	14.2	down pipe was off			A4	14.2	10.16	98.8	8.06	
	10.39		101.1	8.07	A5	14.2	10.12	98.6	8.06	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	14.1	10.43	101.4	8.07	R2	14.1	10.11	98.3	8.05	
					R3	14.1	10.11	98.4	8.05	
					MAMA	14.1	10.71	104.1	8.09	

\*N2 psi/sup: 240psi, Full \*CO2 psi/sup: 23 / 1600 psi

Date & Time	Name of person collecting					Adjusted flow or set points?				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.9	3.59	34.6	7.41	P1	13.9	3.34	32.4	7.33	high
					P2	13.9	3.15	30.5	7.33	little high on DO
					P3	13.9	3.03	29.4	7.33	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	10.35	100.2	8.02	G1	13.8	9.90	95.9	8.00	
					G2	13.8	9.67	93.6	8.00	
					G3	13.8	9.53	92.2	8.00	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	13.8	10.49	101.9	8.03	A1	13.8	9.68	93.7	8.00	
					A2	13.8	10.06	97.5	8.01	
					A3	13.8	9.40	96.0	8.00	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.9	3.19	30.4	7.11	R1	13.9	2.95	28.6	7.43	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	System Kicked off.	Set point turned off	unit 1 tomorrow	7.13	P4	13.8	3.13	30.2	7.89	System crash went to ambient
					P5	13.9	3.39	32.8	7.92	
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.8	10.39	100.3	8.00	G4	13.8	9.85	95.2	7.99	
					G5	13.8	9.81	94.9	7.99	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.8	10.40	100.5	8.00	A4	13.8	10.06	97.3	7.99	
					A5	13.8	10.11	97.7	7.99	lots of bubbles
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.8	10.37	100.2	8.00	R2	13.9	10.06	97.3	8.04	
					R3	13.9	9.72	94.1	7.99	↑ flow slightly
					MAMA	13.8	10.33	99.8	8.02	

\*N2 psi/sup: 250

\*CO2 psi/sup: 22



Date & Time		2/16/24 9:00 am		Name of person collecting data: ms, DH, karsa						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.65	3.44	32.9	7.53	P1	13.65	3.41	32.5	7.45	DO b 1%
					P2	13.65	3.07	29.3	7.43	pH b 0.02
					P3	13.65	3.05	29.1	7.43	
<b>GH1</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.7	10.17	97.5	8.07	G1	13.6	9.69	92.7	8.04	
					G2	13.6	9.60	91.7	8.04	
					G3	13.6	9.43	90.0	8.03	
<b>AH1</b> Ambient 8mg/L, 7.8- 7.9 pH	13.7	10.33	98.8	8.06	A1	13.55	9.98	95.0	7.98	lost flow overnight
					A2	13.6	9.90	94.0	8.05	
					A3	13.6	9.56	91.2	8.04	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.7	3.38	32.4	7.32	R1	13.65	3.25	31.3	7.42	DO b 3%
					P4	13.5	9.39	89.6	7.41	↑↑
					P5	13.5	9.81	93.5	7.42	*header probe not regulating, fixed at 10:17
<b>GH2</b> Gestational 8 mg/L, 7.8- 7.9 pH	13.65	10.34	98.8	8.07	G4	13.5	9.69	92.3	8.05	
					G5	13.5	9.73	92.8	8.05	
					A4	13.4	9.52	90.5	8.04	
<b>AH2</b> Ambient 8mg/L, 7.8- 7.9 pH	13.65	10.31	98.4	8.08	A5	13.4	9.50	90.2	8.04	
					R2	13.65	9.78	93.2	8.05	
					R3	13.65	9.74	93.0	8.05	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.65	10.22	97.8	8.08	MAMA	13.65	10.13	96.8	8.07	

\*N2 psi/sup: 35 psi / 74 psi \*CO2 psi/sup: 21 psi / 600 psi

Date & Time	2/16/24 2:15		Name of person collecting data: ED		MS, MB					
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.9°C	3.39	32.5	7.35	P1	14.3°C	3.23	31.3	7.42	DO up 1% ✓
					P2	14.2°C	2.88	24.8	7.41	
					P3	14.2°C	2.91	28.1	7.41	
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	14°C	10.38	99.9%	8.05	G1	14.1°C	9.71	95.8%	8.01	
					G2	14.1°C	9.65	93.2%	8.01	
					G3	14.1°C	9.51	91.9%	8.01	
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	14°C	10.70	102.9%	8.05	A1	14.0°C	9.73	93.7%	7.98	
					A2	14.1°C	10.45	100.9%	8.01	
					A3	14.1°C	10.15	98.0%	8.01	
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.9°C	3.00	28.9%	7.45	R1	14.3°C	2.97	28.8	7.32*	DO up 1%. pH ↑.01 ✓
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.8°C	3.92	37.5%	7.60	P4	14.1°C	4.01	38.4	7.43	DO up 2%.
					P5	14.1°C	3.96	38.2	7.43	
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	14°C	10.22	98.5	8.06	G4	14.1°C	9.70	93.8	8.02	
					G5	14°C	9.88	95.5	8.02	
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.9°C	10.44	100.7	8.05	A4	14.1°C	9.00	84.0	8.00	
					A5	14.1°C	8.90	85.9	7.98*	
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.9°C	10.09	47.0%	8.07	R2	14°C	9.98	96.2	8.03	
					R3	14°C	9.95	96.2	8.03	
					MAMA	13.85°C	10.13	97.3	8.07	

\*N2 psi/sup:

\*CO2 psi/sup:

pH: 3:00pm

Date & Time		2/15/24 DO: 2:00pm		Name of person collecting		Data: D411				
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
PH1 Pre-Fert 3mg/L, 7.4 pH	13.5°C	3.37	(actively breeding) 39.7%	7.28	P1	13.9°C	3.24	38.5%	7.39	DO ↑ 1%
GH1 Gestational 8 mg/L, 7.8- 7.9 pH	13.6°C	9.19	108.5%	7.95	P2	13.9°C	2.92	34.6%	7.39	
AH1 Ambient 8mg/L, 7.8-7.9 pH	13.6°C	9.38	110.7%	7.95	P3	14.0°C	2.81	33.4%	7.39	
LH1 Larval Treatment 3mg/L, 7.4 pH	13.6°C	2.99	35.4%	7.30	G1	13.9°C	8.88	105.6%	8.02	
PH2 Pre-Fert 3mg/L, 7.4 pH	13.5°C	3.44	40.2%	7.30	G2	13.9°C	8.83	104.8%	8.02	
GH2 Gestational 8 mg/L, 7.8- 7.9 pH	13.6°C	9.10	107.5%	7.99	G3	13.9°C	8.67	103.1%	8.02	
AH2 Ambient 8mg/L, 7.8-7.9 pH	13.5°C	9.17	108.1%	7.98	A1	13.7°C	9.11	108.7%	8.00	
LH2 Larval Treatment 3mg/L, 7.4 pH	13.5°C	9.17	108.0%	7.95	A2	13.7°C	9.09	107.7%	7.99	
					A3	13.8°C	8.93	105.9%	7.98	
					R1	14.1°C	2.88	34.3%	7.38	DO ↑ 2%
					P4	13.8°C	3.24	38.5%	7.41	DO ↑ 2%
					P5	13.8°C	3.31	39.2%	7.42	
					G4	13.8°C	8.83	104.7%	8.02	
					G5	13.9°C	8.80	104.6%	8.02	
					A4	14.1°C	8.61	102.6%	8.03	
					A5	14.1°C	8.66	103.2%	8.03	
					R2	13.7°C	8.89	105.1%	8.00	
					R3	13.7°C	8.88	105.1%	7.99	
					MAMA	12.7°C	8.66	100.5%	7.93	

\*N2 psi/sup: 35 psi / &gt;full \*CO2 psi/sup: 22°, 625

Salinity: 33.05 ish

Date & Time:		2/15/23 9am - 10am									Name of person collecting data:	Dylan		
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?				
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	13.7	3.41	40.4	7.07	P1	13.8	3.23	38.3	7.04	<del>100% N2</del>				
					P2	13.6	3.03	35.8	7.06	<del>100% N2</del>				
					P3	13.7	2.94	34.8	7.04	<del>100% N2</del>				
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	13.6	8.79	103.7	7.65	G1	13.3	8.35	18.0	7.62					
					G2	13.2	8.26	96.6	7.63					
					G3	13.1	8.03	93.8	7.63					
<b>AH1</b> Ambient 8mg/L, 7.8-7.9 pH	13.5	8.87	104.6	7.74	A1	12.9	8.71	101.4	7.49	Bubbled over w/ H2O				
					A2	13.2	8.19	95.9	7.66					
					A3	12.9	7.46	86.8	7.66					
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.7	3.22	38.1	6.92	R1	13.7	2.90	34.4	7.04	DO 12%	<del>N2 100%</del>			
					P4	13.5	3.50	41.3	7.11	N2 5% increased				
					P5	13.5	3.57	42.1	7.01	<del>100% N2</del> DO 2%				
<b>GH2</b> Gestational 8 mg/L, 7.8-7.9 pH	13.6	4.14	48.9	7.10	G4	13.4	8.33	97.9	7.71					
					G5	13.5	8.35	98.4	7.67					
					A4	13.4	8.26	97.2	7.73					
<b>AH2</b> Ambient 8mg/L, 7.8-7.9 pH	13.6	9.09	107.2	7.81	A5	13.3	8.32	97.6	7.75					
					R2	13.4	8.64	101.5	7.76					
					R3	13.5	8.60	101.3	7.76					
<b>LH2</b> Larval Treatment 3mg/L, 7.4 pH	13.6	8.91	105.3	7.79	MAMA	13.5	9.24	108.9	7.80					

\*N2 psi/sup:

\*CO2 psi/sup:

H1 valve fell off, flows wonky

Salinity: 33.07ish [High not super trustworthy]

Date & Time		Name of person collecting						ata: Sophia + Quinn		
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<b>PH1</b> Pre-Fert 3mg/L, 7.4 pH	14.5	2.05	20%	7.45	P1	14.3	3.41	33.2	7.45	
					P2	14.3	3.26	31.5	7.43	
					P3	14.1	3.14	30.3	7.43	
					G1	13.9	9.66	93.2	8.05	
					G2	13.9	9.60	92.5	8.05	
					G3	13.9	9.47	91.3	8.04	
<b>GH1</b> Gestational 8 mg/L, 7.8-7.9 pH	13.9	9.27	89.3%	8.04	A1	13.8	9.80	94.0	8.02	
					A2	13.9	9.80	94.2	8.04	
					A3	13.9	9.69	93.2	8.04	
					R1	14.0	2.67	25.7	7.33	
										L1100 *pH
<b>LH1</b> Larval Treatment 3mg/L, 7.4 pH	13.7	2.90	27.9	7.98	P4	13.7	3.61	34.6	7.41	
					P5	13.8	3.00	34.6	7.41	
					G4	13.7	9.67	92.9	8.04	
					G5	13.9	9.66	93.0	8.04	
<b>PH2</b> Pre-Fert 3mg/L, 7.4 pH	13.5	3.55	33.9	7.39	A4	13.7	8.09	77.5	7.95	
					A5	13.7	7.73	74.1	7.90	
					R2	13.7	9.70	93.1	8.01	
					R3	13.6	9.51	90.9	8.01	
					MAMA	12.5	9.17	85.4	7.92	

\*N2 psi/sup: > Full, 40 psi \*CO2 psi/sup: 21 psi / 600 psi

Exchanged gas mid day

Date & Time: 2-14-2024 9:40 AM				Name of person collecting data: Quinn and Lorenzo						
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
<del>Buoyant (BH1)</del> 2.8 mg/L X 7.3pH	13.7	3.70	37.1	7.42	P <sub>A1</sub>	13.6	3.53	33.7	7.44	DO + 2%
P <sub>I1</sub>					P <sub>A2</sub>	13.4	3.32	31.6	7.44	3 samples taken
					P <sub>A3</sub>	13.4	3.19	30.3	7.43	pH - while DO dropped
<del>High (H1)</del> 3.5 mg/L X 7.4 pH	13.6	10.03	96.1	8.08	G <sub>H1</sub>	13.7	9.68	92.8	8.05	
G <sub>H1</sub>					G <sub>H2</sub>	13.6	9.56	91.5	8.05	
					G <sub>H3</sub>	13.6	9.30	89.0	8.04	
<del>Moderate (MH1)</del> 4.5 mg/L X 7.5 pH	13.7	9.94	95.4	8.08	A <sub>M1</sub>	13.7	10.00	95.9	8.07	
A <sub>M1</sub>					A <sub>M2</sub>	13.7	9.67	92.7	8.06	
					A <sub>M3</sub>	13.7	9.47	90.8	8.04	
<del>Ambient (AH1)</del> 8 mg/L X 7.8-7.9 pH	13.7	3.01	29.2	7.37	R <sub>A1</sub>	13.7	2.97	28.5	7.38	
R <sub>A1</sub>										
<del>Extreme (EH1)</del> 2.8 mg/L X 7.3pH	13.6	2.94	28.0	7.43	P <sub>E4</sub>	13.3	2.82	26.8	7.42	3 day flow
P <sub>E2</sub>					P <sub>E5</sub>	13.3	2.92	27.7	7.42	pH -
<del>High (H2)</del> 3.5 mg/L X 7.4 pH	13.7	9.94	95.6	8.07	G <sub>H4</sub>	13.5	9.61	91.7	8.05	
G <sub>H2</sub>					G <sub>H5</sub>	13.6	9.67	92.4	8.06	
<del>Moderate (MH2)</del> 4.5 mg/L X 7.5 pH	13.7	10.33	97.9	8.09	R <sub>M3</sub>	13.5	9.68	92.4	8.06	
R <sub>M2</sub>					R <sub>M4</sub>	13.5	9.70	92.7	8.06	
<del>Ambient (AH2)</del> 8 mg/L X 7.8-7.9 pH	13.7	10.18	97.5	8.09	A4	13.3	8.79	83.4	8.01	
					A5	13.1	8.51	80.5	7.97	
					MAMA	13.0	10.44	98.2	8.09	
Tris measured:	Tris actual:	Temp:	ΔTris:		*N2 psi/sup:	1/2 full	40 psi	*CO2 psi/sup:	21 psi	/ 600 psi

Date & Time: 2/13/24 4:30pm Name of person collecting data: Dylan

Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
PH1	13.14	4.19	40.5	7.31	P1_E1	13.3	3.87	36.8	7.48	pH decreased by 0.05
					P2_E2	13.2	3.60	34.1	7.47	DO decreased by 5%
					P3_E3	13.2	3.61	34.4	7.47	
GH1	12.9	10.40	98.1	8.04	G1_H1	12.9	9.78	92.1	7.98	
					G2_H2	12.8	9.79	92.1	7.95	
					G3_H3	12.9	9.66	91.2	7.95	
AH1	12.95	10.59	100.3	8.04	A1_M1	13.25	10.24	97.4	8.00	was bubbling (low flow)
					A2_M2	12.85	10.19	96.1	7.96	
					A3_M3	12.85	10.04	94.8	7.96	
LH1	13.25	4.24	40.4	7.53	R1_A1	13.2	4.16	39.5	7.40	pH decreased by 0.01
					R2_A2					
					R3_A3					
PH2	13.35	3.42	32.8	7.53	P4_E4	13.15	3.07	29.1	7.52	pH decreased by 0.1
					P5_E5	13.1	3.15	29.8	7.53	DO decreased by 2%
GH2	12.9	10.37	97.8	8.03	G4_H4	13.0	9.81	92.7	7.97	
					G5_H5	13.0	9.75	92.2	7.97	
LH2	12.95	10.39	97.4	8.03	R2_M4	12.75	9.89	93.1	7.96	
					R3_M5	12.85	9.85	92.9	7.97	
AH2	13.2	10.42	98.8	8.06	A4	13.05	9.67	91.5	7.98	
					A5	13.15	9.65	91.7	7.98	
					MAMA	13.55	10.25	78.2	8.07	

This measured: This actual: Temp:  $\Delta$ Tris: \*N2 psi/sup: \*CO2 psi/sup: 21 psi / 600 psi

Date & Time:		Name of person collecting data: Dylan & Amie								
Header Tank	Temp	DO (mg/L)	DO %	pH	Adult Tank	Temp	DO (mg/L)	DO %	pH	Adjusted flow or set points?
1 P1 26-1 3 A1 4 LH1 5 P2 6 G2 8 A2 7 LA2	Extreme (EH1) 2.8 mg/L X 7.3 pH	Actual flow 50 l/min		8.08	E1P1	13.75	9.52	91.4%	8.05	
					E2P2	13.65	9.22	88.3%	8.01	
					E3P3	13.55	9.30	89.1%	8.03	
	High (HH1) 3.5 mg/L X 7.4 pH	13.65	10.36	99.4	H1G1	13.65	9.96	95.6	8.05	Bubbled over night
					H2G2	13.65	9.88	94.6%	8.05	
					H3G3	13.65	9.72	93.1%	8.04	
	Moderate (MH1) 4.5 mg/L X 7.5 pH	13.60	10.32	98.8	M1H1	13.45	9.96	94.9%	8.03	Bubbled overnight (very poor flow)
					M2H2	13.65	9.78	93.8%	8.03	
					M3H3	13.65	9.81	94.1%	8.03	
	Ambient (AH1) 8 mg/L X 7.8-7.9 pH	13.45	10.22	97.4	A1R1	12.85	8.93	84.2%	7.75	Flow was 10 L over night
					A2					
					A3					
	Extreme (EH2) 2.8 mg/L X 7.3 pH	13.65	10.30	98.8	E4P4	13.45	9.27	88.6%	8.04	
					E5P5	13.5	9.12	87.4%	8.03	
					H4G4	13.5	9.79	93.7	8.05	
	High (HH2) 3.5 mg/L X 7.4 pH	13.65	10.30	95.6	H5G5	13.65	9.81	94.3	8.05	
					M4H4	13.35	9.80	93.3	8.06	Bubbled overnight
					M5H5	13.25	9.62	91.4	8.03	Bubbled over night
	Moderate (MH2) 4.5 mg/L X 7.5 pH	13.7	10.29	98.6%	M4A4	13.35	9.80	93.3	8.06	
					M5A5	13.25	9.62	91.4	8.03	
					A4R4	13.65	9.97	75.5%	8.05	Bubbled overnight
	Ambient (AH2) 8 mg/L X 7.8-7.9 pH	13.6	10.37	94.3%	A5R3	13.7	9.78	76.0%	8.05	Bubbled overnight
					MAMA	13.65	10.06	96.4%	8.06	
Tris measured:		Tris actual:	Temp:	ΔTris:	*N2 psi/sup: 40psi / V2full *CO2 psi/sup: 22psi / 600psi					

Treatment 5 turned on @ 10:40 am  
probably