

**LONG BEACH FIRE DEPARTMENT**  
**Marine Safety Division**

**TRAINING ACTION PLAN**

**A-Shift Shark Navigator  
Drill**



**Operational Period**

Date From: 03/19/2025  
Time From: 0830 Hours

Date To: 03/19/2025  
Time To: 1200 Hours

**Approved By Incident Commander:**

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**Rank, First Initial, Last Name**

## INCIDENT OBJECTIVES (ICS 202)

<b>1. Incident Name:</b>	<b>2. Operational Period:</b> Date From: _____ Date To: _____ Time From: _____ Time To: _____																
<b>3. Objective(s):</b>																	
<b>4. Operational Period Command Emphasis:</b>																	
General Situational Awareness																	
<b>5. Site Safety Plan Required?</b> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>Approved Site Safety Plan(s) Located at:</b>																	
<b>6. Incident Action Plan</b> (the items checked below are included in this Incident Action Plan): <table style="width: 100%; border: none;"><tr><td style="width: 33%;"><input type="checkbox"/> ICS 203</td><td style="width: 33%;"><input type="checkbox"/> ICS 207</td><td style="width: 34%;"><u>Other Attachments:</u></td></tr><tr><td><input type="checkbox"/> ICS 204</td><td><input type="checkbox"/> ICS 208</td><td><input type="checkbox"/> _____</td></tr><tr><td><input type="checkbox"/> ICS 205</td><td><input type="checkbox"/> Map/Chart</td><td><input type="checkbox"/> _____</td></tr><tr><td><input type="checkbox"/> ICS 205A</td><td><input type="checkbox"/> Weather Forecast/Tides/Currents</td><td><input type="checkbox"/> _____</td></tr><tr><td><input type="checkbox"/> ICS 206</td><td></td><td><input type="checkbox"/> _____</td></tr></table>			<input type="checkbox"/> ICS 203	<input type="checkbox"/> ICS 207	<u>Other Attachments:</u>	<input type="checkbox"/> ICS 204	<input type="checkbox"/> ICS 208	<input type="checkbox"/> _____	<input type="checkbox"/> ICS 205	<input type="checkbox"/> Map/Chart	<input type="checkbox"/> _____	<input type="checkbox"/> ICS 205A	<input type="checkbox"/> Weather Forecast/Tides/Currents	<input type="checkbox"/> _____	<input type="checkbox"/> ICS 206		<input type="checkbox"/> _____
<input type="checkbox"/> ICS 203	<input type="checkbox"/> ICS 207	<u>Other Attachments:</u>															
<input type="checkbox"/> ICS 204	<input type="checkbox"/> ICS 208	<input type="checkbox"/> _____															
<input type="checkbox"/> ICS 205	<input type="checkbox"/> Map/Chart	<input type="checkbox"/> _____															
<input type="checkbox"/> ICS 205A	<input type="checkbox"/> Weather Forecast/Tides/Currents	<input type="checkbox"/> _____															
<input type="checkbox"/> ICS 206		<input type="checkbox"/> _____															
<b>7. Prepared by:</b> Name: _____ Position/Title: _____ Signature: _____																	
<b>8. Approved by Incident Commander:</b> Name: _____ Signature: _____																	
ICS 202	IAP Page _____	Date/Time: _____															

1. Incident Name:	2. Date/Time Prepared:	3. Operational Period:	
	Date:	Date From:	Date To:
	Time:	Time From:	Time To:

[illegible]

ICS 205 IAP Page \_\_\_\_ Date/Time: \_\_\_\_\_

## MEDICAL PLAN (ICS 206)

<b>1. Incident Name:</b>		<b>2. Operational Period:</b> Date From: _____ Time From: _____		Date To: _____ Time To: _____			
<b>3. Medical Aid Stations:</b>							
Name	Location	Contact Number(s)/Frequency	Paramedics on Site?				
			<input type="checkbox"/> Yes <input type="checkbox"/> No				
			<input type="checkbox"/> Yes <input type="checkbox"/> No				
			<input type="checkbox"/> Yes <input type="checkbox"/> No				
			<input type="checkbox"/> Yes <input type="checkbox"/> No				
			<input type="checkbox"/> Yes <input type="checkbox"/> No				
			<input type="checkbox"/> Yes <input type="checkbox"/> No				
<b>4. Transportation</b> (indicate air or ground):							
Ambulance Service	Location	Contact Number(s)/Frequency	Level of Service				
			<input type="checkbox"/> ALS <input type="checkbox"/> BLS				
			<input type="checkbox"/> ALS <input type="checkbox"/> BLS				
			<input type="checkbox"/> ALS <input type="checkbox"/> BLS				
			<input type="checkbox"/> ALS <input type="checkbox"/> BLS				
<b>5. Hospitals:</b>							
Hospital Name	Address, Latitude & Longitude if Helipad	Contact Number(s)/Frequency	Travel Time		Trauma Center	Burn Center	Helipad
			Air	Ground			
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
					<input type="checkbox"/> Yes Level: _____	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>6. Special Medical Emergency Procedures:</b>							
<input type="checkbox"/> Check box if aviation assets are utilized for rescue. If assets are used, coordinate with Air Operations.							
<b>7. Prepared by</b> (Medical Unit Leader): Name: _____ Signature: _____							
<b>8. Approved by</b> (Safety Officer): Name: _____ Signature: _____							
ICS 206		IAP Page _____		Date/Time: _____			

## SAFETY MESSAGE/PLAN (ICS 208)

<b>1. Incident Name:</b>	<b>2. Operational Period:</b> Date From: _____ Date To: _____ Time From: _____ Time To: _____	
<b>3. Safety Message/Expanded Safety Message, Safety Plan, Site Safety Plan:</b>		
<b>4. Site Safety Plan Required?</b> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>Approved Site Safety Plan(s) Located At:</b>		
<b>5. Prepared by:</b> Name: _____ Position/Title: _____ Signature: _____		
<b>ICS 208</b>	<b>IAP Page</b> _____	Date/Time: _____



## Long Beach Fire Department Dive Team Dive Plan

**Date:** 03-19-2025

**Location:** Marine Park

**Dive Supervisor:** Morrison

<b>Depth:</b> 15'- 20'	<b>Visibility:</b> 0-5'	<b>Temp:</b> 62 deg
<b>Equipment:</b> <input checked="" type="checkbox"/> Wet <input checked="" type="checkbox"/> Dry <input type="checkbox"/> RDU	<input checked="" type="checkbox"/> SCUBA	<input checked="" type="checkbox"/> Surface Comms
<b>Dive Type:</b> Shark Navigator		
<b>Hazards:</b> <input checked="" type="checkbox"/> Entanglement <input checked="" type="checkbox"/> Overhead Environment <input type="checkbox"/> Pollution <input type="checkbox"/> Strong Current	<input type="checkbox"/> Other:	

### Dive 1 Time: 0830

<b>Divers:</b>	Reinheimer Gonzales,				
<b>RIC:</b>	Morimoto				
<b>Start P.G.:</b>	A				
<b>Depth:</b>	20 Ft.				
<b>Bottom Time:</b>	20 Min.				
<b>Safety Stop:</b>	N/A				
<b>End P.G.:</b>	B				
<b>Surface Interval:</b>					
<b>Coverage:</b>	<table><tr><td>RB-3</td><td>ABM</td></tr><tr><td>LG-7</td><td>Beach</td></tr></table>	RB-3	ABM	LG-7	Beach
RB-3	ABM				
LG-7	Beach				

### Dive 2 Time: 1000

<b>Divers:</b>	Trinkle Mathison				
<b>RIC:</b>	Morimoto				
<b>Start P.G.:</b>	A				
<b>Depth:</b>	20 Ft.				
<b>Bottom Time:</b>	20 Min.				
<b>Safety Stop:</b>	N/A				
<b>End P.G.:</b>	B				
<b>Surface Interval:</b>	5 Min				
<b>Coverage:</b>	<table><tr><td>LG-6</td><td>Beach</td></tr><tr><td>RB-1</td><td>DTM</td></tr></table>	LG-6	Beach	RB-1	DTM
LG-6	Beach				
RB-1	DTM				

### Dive 3 Time:

<b>Divers:</b>					
<b>RIC:</b>					
<b>Start P.G.:</b>	A				
<b>Depth:</b>	20 Ft.				
<b>Bottom Time:</b>	20 Min.				
<b>Safety Stop:</b>	N/A				
<b>End P.G.:</b>	B				
<b>Surface Interval:</b>					
<b>Coverage:</b>	<table><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>				

Notifications: ☐ USCG (310) 521-3815

☐ Catalina Hyperbaric Chamber (310) 510-4020

### Dive Description/Sketch:

Dirt Dive Shark Navigator

Descend PLS

Mark PLS on Navigator

360 Degree Scan

Identify nearby targets, mark targets on Shark

Navigate to marked targets

Navigate back to the PLS.

Controlled ascent to the surface.

Switch rolls if applicable and repeat

0830 RB1, LG6 (Reinheimer, Gonzales) meet at station Marine Park. LG7 cover beach, RB3 cover Bay

1000 RB2 (Fletcher, Mathison), LG7 (Trinkle) meet at station Marine Park. RB1 cover DTM, RB3 cover Bay, LG6 cover beach



# NOAA NO-DECOMPRESSION TABLE MULTIPLE AIR DIVES

WARNING: EVEN STRICT COMPLIANCE WITH THESE CHARTS WILL NOT GUARANTEE AVOIDANCE OF DECOMPRESSION SICKNESS. CONSERVATIVE USAGE IS STRONGLY RECOMMENDED.

## CHART 1 — DIVE TIMES WITH END-OF-DIVE GROUP LETTER

RNT RESIDUAL NITROGEN TIME  
+ ABT ACTUAL BOTTOM TIME  
ESDT EQUIVALENT SINGLE DIVE TIME  
(USE ESDT TO DETERMINE END-OF-DIVE LETTER GROUP)

THESE CHARTS ARE BASED ON THE U.S. NAVY AIR DECOMPRESSION TABLES 7, 8, & 9 REV. 6

DEPTH		DIVE TIME REQUIRING DECOMPRESSION STOP																00	
		MINUTES REQUIRED AT 20 fsw (6.1 msw)																00	
		NO-STOP TIME																00	
msw	fsw	12.2	13.7	15.2	16.8	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	40	45	50	55	60	65
12.2	40	12	20	27	36	44	53	63	73	84	95	108	121	135	151	163	180	14	14
13.7	45	11	17	24	31	39	46	55	63	72	82	92	102	114	125	130	150	2	25
15.2	50	9	15	21	28	34	41	48	56	63	71	80	89	92	100	110	130	4	34
16.8	55	8	14	19	25	31	37	43	50	56	63	71	74	80	90	100			
18.3	60	7	12	17	22	28	33	39	45	51	57	60	65	74	80	90	100	4	17
21.3	70	6	10	14	19	23	28	32	37	42	47	48	55	60	70			14	23
24.4	80	5	9	12	16	20	24	28	32	36	39	45	48	50	60			17	30
27.4	90	4	7	11	14	17	21	24	28	30	35	40	45	48				14	23
30.5	100	4	6	9	12	15	18	21	25	28	33	38	43	48	55	60		15	26
33.5	110	3	6	8	11	14	16	19	20	25	30	35	40	45	50	55		14	24
36.6	120	3	5	7	10	12	15	18	20	25	30	35	40	45	50	55		14	24
39.6	130	2	4	6	9	10	15	18	20	25	30	35	40	45	50	55		14	24

fsw		40	45	50	55	60	70	80	90	100	110	120	130	GROUP LETTER
msw		12.2	13.7	15.2	16.8	18.3	21.3	24.4	27.4	30.5	33.5	36.6	39.6	
REPETITIVE DIVES SHALLOWER THAN 40 FSW (12.2 MSW) ARE TO USE THE 40 FSW (12.2 MSW) REPETITIVE SCHEDULE	13	12	11	10	9	8	7	6	5	5	5	4	4	◀A
	150	113	81	64	51	40	32	24	20	15	10	6	6	◀B
	21	18	17	15	14	12	10	9	8	8	7	6	6	◀C
	142	107	75	59	46	36	29	21	17	12	8	4	4	◀D
	29	25	23	20	19	16	14	12	11	10	9	9	9	◀E
	134	100	69	54	41	32	25	18	14	10	6	1	1	◀F
	37	32	29	26	24	20	18	16	14	13	12			◀G
	126	93	63	48	36	28	21	14	11	7	3			◀H
	45	40	35	32	29	25	22	19	17	16	14			◀I
	118	85	57	42	31	23	17	11	8	4	1			◀J
	55	48	42	38	35	29	25	22	20	18				◀K
	108	77	50	36	25	19	14	8	5	2				◀L
	64	56	49	44	40	34	29	26	23					◀M
	99	69	43	30	20	14	10	4	2					◀N
	74	64	57	51	46	39	33	29						◀O
	89	61	35	23	14	9	6							◀P
	85	73	65	58	52	44	38							◀Q
	78	52	27	16	8	4	1							◀R
	97	83	73	65	58									◀S
	66	42	19	9	2									◀T
	109	93	81	72										◀U
	54	32	11	2										◀V
	122	104	90											◀W
	41	21	2											◀X
	136	115												◀Y
	27	10												◀Z
	152	11												◀Z

## CHART 3 — REPETITIVE DIVE TIME

00 RED NUMBERS (TOP) ARE RESIDUAL NITROGEN TIMES (RNT)  
00 BLACK NUMBERS (BOTTOM) ARE ADJUSTED  
NO-STOP REPETITIVE DIVE TIMES  
ACTUAL DIVE TIME SHOULD NOT EXCEED THIS NUMBER

## CHART 2 — SURFACE INTERVAL TIME

Time Ranges in hours: minutes

Enter Chart 2 from the top,  
move down to find surface interval time,  
move left to find the next repetitive group letter.

# PUBLIC SAFETY DIVE TEAM REPETITIVE DIVE LOG

Date: March 19, 2025

Location: Marine Park

Dive Supervisor: Morrison

Tables Used: Noaa

Dive Type: Drill

### Dive Description: Shark Navigator

[illegible]

[illegible]