Memorandum

Date: August 8, 2006

To: Selected Dive Team Members

From: Department of Parks and Recreation

Alex K. Peabody, Aquatic Safety Specialist

Diving Safety Board Chairman

Subject: 2006 Dive Team Refresher Training: September 19 – 21, 2006

You have been pre-selected to attend State Park Dive Team Refresher Training beginning on Tuesday, September 19 through Thursday, September 21, 2006. Training starts promptly at 0800 hours at the Environmental Health and Safety facility on the UCSB campus. Following the classroom training session, we will reconvene at the Recreation Center Pool (please see enclosed map in the area of the large red arrow).

On day one, lunch is on your own, so BYOL. Dinner will be at the El Torito restaurant located across from the wharf which is walking distance from the Sea Landing parking lot. We will board the Truth Aquatics dive boat and depart for the Channel Islands following dinner.

Please take a moment to review the enclosed course agenda. The training program will include lecture, safety review, confined and open water skills testing, and practical exercises. A pre-training exam is included and must be completed prior to arriving at the refresher training.

<u>Please bring all of your diving equipment including a tank and weight belt</u> (unless you are flying). Also bring any equipment or diving related materials that you would like to share with the class.

The course cost for the dive boat and meals while aboard is approximately \$400.00 per diver and you will need to pay by personal check at the Truth Aquatics office located at the docks prior to boarding the vessel. This cost will be covered by the Mott Training Center when you submit your travel claim. Your District must pay for the cost of travel to/from the training.

If you are planning to stay before, or after training, please remember that lodging in the UCSB area is limited. It is strongly recommended that you **make reservations immediately**. Suggestions for affordable lodging include: Motel 6 (five locations including Goleta, Santa Barbara and Carpinteria) at \$70-\$85 per night – 1-800-4-MOTEL6, and Super 8 Motel – Santa Barbara/Goleta at \$70-\$85 per night – 1-800-800-8000.

Please notify me immediately if you are unable to attend or if you have any questions at (831) 649-7132. Cell phone (831) 402-7805. Email me at apeabody@parks.ca.gov.

2006 Dive Refresher September 19 – 21, 2006

ROSTER

Instructors:

- 1. Ken Kramer, Supt. II, Orange Coast
- 2. Paul Milosch, LGS I, Orange Coast
- 3. Loren Rex, SSPR, Monterey

Students:

NAME	TITLE	DISTRICT
4. Adama, Dale	LFGD	Orange Coast
5. Brady, Kevin	LFGD	Monterey
6. Bruck, Jeff	LFGD	San Diego Coast
7. Bynum, Joshua	LFGD	Orange Coast
8. Foster, John	ARCH	Sacramento HQ
9. Serpa, Jim	SSPR	Orange Coast
10. Kummer, Brian	LFGD	Orange Coast
11. Raducanu, Dan	LFGD	Angeles
12. Rhee-Pizano, Eddie	LFGD	Santa Cruz
13. Tallman, Karl	LGS	San Diego Coast
14. Wood, Ashford	SPR	Russian River
15. Van Der Lief, Dion	LFGD	Channel Coast
16. Marshal, Kirk	SPT	Mendocino
17. Shelby, Jens	MAINT. MECH	Mendocino
18. Fuller, Terra	ENV. SCIEN. INTN.	Mendocino
19.		
20.		
21.		
22.		
23.		
24.		

2006 Dive Team Refresher Training

AGENDA

Tuesday, September 19th

Location UCSB Pool-Lot 20 and 21

0800-1200 Introductions

State Park Dive Team Mission, Purpose, and Policy

Medical Exams

Dive Team Extranet Site Use and Review

Use of dive computers and decompression tables

Equipment Standards, Equipment Review and Show and Tell

1200-1300 Lunch: BYOL! (Bring your own lunch!)

1300 Physical Skills – Swim Test

Practical Skills Rotations-Confined Water

Basic Skills Review

Emergency Procedures / Skills Review

• Entanglement Extrication

Search and Recovery Techniques

• Low visibility and "black-out" mask practice

Dinner at the El Torito Resturant. The location is across from the wharf

which is walking distance from the Sea Landing parking lot.

2000 Board the Dive Boat Conception – Travel to Dive Site

Wednesday, September 20th

Location: Channel Islands

0800-1100 Practical Skills Rotations - Open Water

Basic Skills Review

Emergency Procedures / Skills Review

Entanglement Extrication

Search and Recovery Techniques

Low visibility and "black-out" mask practice

1300- 1500 Search and Rescue Dive Scenarios and Evaluations

2000- Night Dive

Thursday, September 21th

Location: Channel Islands

0800-1000 Deep water dive (scheduled 80'-100' dive with instructor)

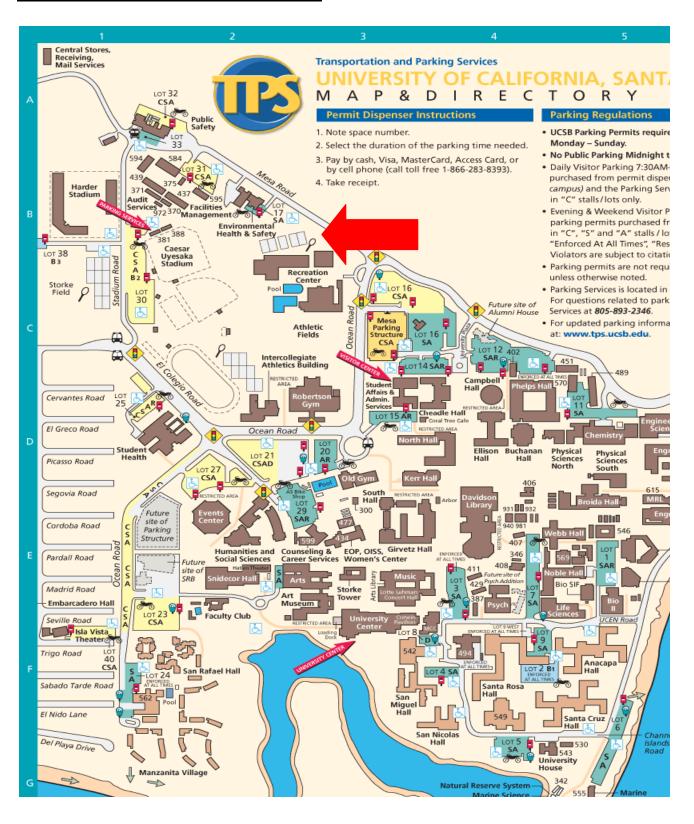
PlanDive

Debrief

1100-1300 Partner Dive

1400- Course Evaluations 1600- Back at the Dock

Directions to the UCSB Swimming Pool:



<u>Directions to the Dive Vessel Conception at the Santa Barbara Harbor:</u>



Dive Team

REFRESHER TRAINING COURSE

PRE-TRAINING EXAM

Please complete <u>prior</u> to arriving at the refresher training.						
Name:			Date: Score: / 35 pts.			
True or False (15 Points)						
1.	T	F	Each individual diver is responsible for his/her personal safety.			
2.	T	F	The dive team leader responsible for the fitness inquiry, pre-dive briefing, equipment inspection, and debriefing during each dive.			
3.	T	F	Dives may be made in unsafe conditions if the majority of the divers agree.			
4.	T	F	Non-departmental certified divers may dive with department divers if they are certified and qualified to participate in the dive project.			
5.	T	F	Department divers may SCUBA dive alone if they do not exceed 15 feet in depth.			
6.	Т	F	Repetitive dives should be plan so that the shallowest dives are first and the deepest dives are last.			
7.	T	F	The NOAA Dive Manual is the general procedural manual for all department divers.			
8.	Т	F	A minimum of 12 dives per year must be made by each DPR diver to retain Departmental dive certification.			
9.	T	F	Dives requiring decompression should be avoided.			
10.	T	F	Department dive policies may be violated when danger to life exists.			
11.	T	F	The NAUI Dive Tables should be followed when you are doing repetitive dives.			
12.	Т	F	As volume increases, pressure and density decrease.			
13.	Т	F	Saltwater is denser (weighs more) than freshwater.			
14.	Т	F	Bubbles will come out of solution faster as temperature increases.			

15. T F Breathing pure (100%) oxygen when scuba diving is extremely dangerous.

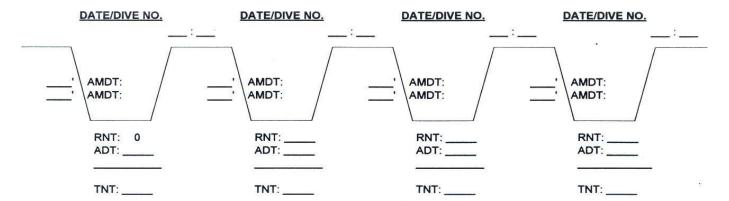
	•	artment divers are required to surface with at least psi remaining in their tank.		
	A. B. C. D.	1,000 psi 500 psi 300 psi 1500 psi		
18.	The	maximum depth for recreational scuba divers is		
	A. B. C. D.	150' 100' 130' 60'		
19.	The	he most applicable physics law in scuba diving is		
	A. B. C. D.	Kenny's Law The Milosch Rule of Diving Loren's Law Boyle's Law		
		ompression sickness is caused when is absorbed by the bodies tissues then ased in the form of bubbles into the bloodstream.		
	A. B. C. D.	oxygen carbon dioxide helium nitrogen		
21. Whe		en contact is lost with a dive buddy, what should you do?		
	A. B. C. D.	Continue diving on a reciprocal course. Make a quick 360 degree check, safely ascend to the surface and re-establish contact at the surface. Return to the beach, or boat as soon as possible and wait for your partner there. Call 9-1-1, or the Coast Guard immediately.		
22.	The proper ascent rate when diving is feet per minute.			
	A. B. C. D.	30' per minute 60' per minute 90' per minute 15' per minute		
23.	A de	A depth of 99' is equal to atmospheres absolute (ATA).		
	A. B. C. D.	3 5 6 4		

- 24. A balloon filled with 90 liters of air at 33 fsw will have a volume of _____liters at 66 fsw. 4.5 Α. B. 6 C. 12 D. 18 25. 55 fsw is equal to _____ATA. A. 3 B. 2.6 C. 6 D. 1.5
- 26. A cylinder of air filled at the surface (sea level) will have _____ the volume of air at 33' feet.
 - A. 1/4
 - B. ½
 - C. 3/4
 - D. the same

Dive Table Problem (10 Points)

A buddy pair dives their first dive to 80' for 15 minutes. They have a surface interval of 2 hours. Their second dive is to 55' for 30 minutes. They have a surface interval of 2 hour and 50 minutes. Their final dive of the day is to a wreck that is located at 50 feet. What will be their maximum bottom time without having to decompress?

DIVE PROFILE INFORMATION



NAUI DIVE TABLES

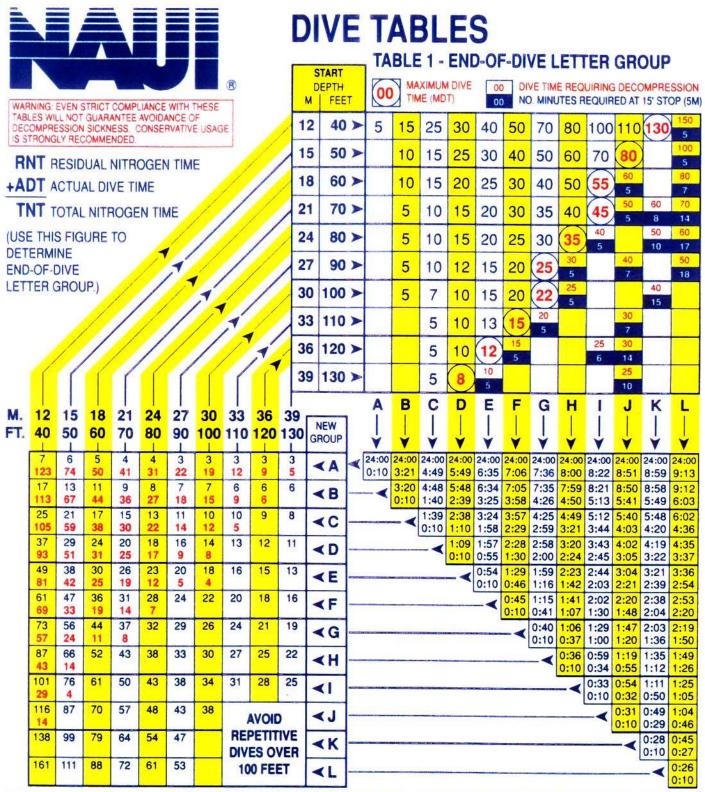


TABLE 3 - REPETITIVE DIVE TIMETABLE

TABLE 2 - SURFACE INTERVAL TIME (SIT) TABLE

LIGHT FACE NUMBERS ARE RESIDUAL NITROGEN TIMES (RNT)

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