

MONTEREY BAY AQUARIUM RESEARCH INSTITUTE
DIVING PROJECT PROPOSAL AND DIVE PLAN

Project Leader: Scott Jensen

Divemaster for the Project: Eric Castillo (Aquarium of the Pacific, Assistant DSO)

(Note: It is the responsibility of the Divemaster to ensure that all divers and equipment used are approved).

Name and Description of Project: ESP Recovery

Project Dates, Location and Duration: 29 April 2010; about 5 miles off the coast of Newport Beach, Ca.

Description of Dive Plan: Two dives will be made to recover the two ESP instruments and surface buoys.

Ship arrives on site of mooring. Crew is briefed on recovery plan including diver responsibilities. Divers are provided; two bale locking pins with hair pin cotter pins and, buoy recovery strap. Once boat operator signals it is safe to do so divers enter water and crew hands end of lifting line to diver. Divers swim to buoy and attach recovery strap. Divers then proceed to master link about 34 meters down and attach lifting line using screw pin shackle on the end of the line. Divers then ascend to bale and pin. Divers finish ascent at buoy and are recovered.

Anticipated number of dives, maximum depths and bottom time required to complete project:

Two dives will be made to recover the two ESP units. The dive will have a max depth of approximately 112 feet, and an estimated bottom time of 10 minutes.

Divers will be utilizing a NITROX mix of 29%. Dive plan generated from EAD of 110 feet NAUI Air Table. Divers will be utilizing NITROX computers for decompression purposes.

Based on EAD, divers will not exceed a depth greater than 120 FSW and shall not exceed a total bottom time of 15 minutes.

Surface interval time between Dive 1 and Dive 2 shall be calculated from the Diver's NITROX computers to allow sufficient bottom time for required task. NAUI Air Dive Table may be used to cross reference maximum bottom time for second dive.

Using the EAD a 110/15, will require a minimum surface interval of 3:58 (Hours:Minutes).

Note: Actual depth and bottom time will dictate surface interval.

List any special equipment, diving conditions, or boats to be used:

Mooring recovery and dives will be from the R/V Shana Rae.

Other divers (and affiliation, if other than MBARI) involved with the project:

Name	Affiliation	Certification Depth
1) Eric Castillo	Aquarium of the Pacific	130fsw
2) Steve Lang	Aquarium of the Pacific	130fsw

Emergency Plan.

USCG, VHF Channel 16; EMS, 911; Newport Beach Fire/Lifeguard 949.644.3047; Catalina Hyperbaric Chamber 562.5101053; LA County Medic Alert 866.940.4401 then press "7"; HOAG Hospital – Newport Beach 949.764.4624

Supervisor Approval: _____ **Date** _____

Diving Officer Approval: _____ **Date** _____