Rev. 11-21-09

PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: P4-243 Date: MARCH 28, 2011

Observer 1: SCOTT HAGA

Affiliation: HSWRC

Observer 2: JOHN SMITH

Affiliation: HURL

Purpose: (Research) Training Test

Other:

Special Equipment:

Cameras: MINI-ZEUS HD, ROS SD

Manipulators: ORION, HYCO

Samplers/Sensors: CTD-DO, sample crate

Support Vessel: R/V KIHIKIKAI-O-KANALOA

Captain: CLORY GUTZEIT

Dive Location: SOUTH OAHU

Latitude: N 21° 13.398'

Longitude: W 157° 52.043'

Time of Dive: 0906

Time of Surface: 1556

Time Submerged: 6:50

Time Thru Last Dive: 1729:58

Total Time to Dive: 1736:48

Dive Depth: 556 m

Water Depth: 556 m

Water Temperature: refer to CTD log

Visibility: fair, 10-15 m

Dive Results/Remarks: PIPELINE ROUTE SURVEY FOR HONOLULU SEWATER AIRCONDITIONING PROJECT. 0956 On bottom in a flat and sandy area w/ some munitions. 1008 move E toward start point of survey. 1030 556m start survey to N, main bearing averaged 350°. 1108 543m continuing survey to N, making observations on munitions. 1150 taking a sonar scan of a field of ordnance. Continuing survey to N. 1154 518 m observing a pipe sticking up about 1½ to 2m into water column. 1206 510m carbonate outcrop, continuing survey to N. 1220 502 m large carbonate outcrop. 1256 471m large carbonate outcrop. 1335 continuing survey to N. Holding position for H-O-K to close distance. 1347 continue survey to N. 1456 248 m survey complete. Moving S to deeper water for recovery. 1521 296m leaving the bottom. Normal recovery.

Pilot's Signature: [signature] Date: 4-14-11

Operations Director: Terry Kerby Date: 4-14-11

For equipment deficiencies, refer to maintenance logs.