Rev. 11-21-09

PISCES IV DIVE REPORT

Pilot: Terry Kerby Dive #: PIV-267 Date: October 30, 2011

Observer 1: Andrew Rocheleau

Affiliation: Sea Engineering

Observer 2: Pat Ross

Affiliation: Sea Engineering

Purpose: (Research) Training (Test)

Other: Survey - Test Instrument

Special Equipment:

Cameras: Mini Zeus HD - ROS SD

Manipulators: Orion - HYCO

Samplers/Sensors: CTD - Mass Spec (Testing)

Support Vessel: R/V Kaimikai-O-Kanaloa

Captain: Clary Gutzeit

Dive Location: Sand Island Sewer Outfall

Latitude: 21°16.655'N

Longitude: 157°54.451'W

Time of Dive: 0916

Time of Surface: 1504

Time Submerged: 5:58

Time Thru Last Dive: 1894:49

Total Time to Dive: 1900:47

Dive Depth: 166m

Water Depth: 166m

Water Temperature: 15.8°C @ 166m

Visibility:

Dive Results/Remarks: Sand Island outfall survey dive. 0932 Land on a sandy bottom in 108m. 0942 Move North towards the pipe. 1032 At flap gate in 73m at end of pipe very intense flow coming out of end of pipe. Unable to inspect flap gate. Strong current out of the West. Will come back to Flap Gate in hopes the current and discharge flow minimize. Begin pipe inspection to the East. 1042 Locate a plugged diffuser port. Clear diffuser port with port poker in Orion arm. Continue pipe inspection running with a current to the East. 1143 57m Locate sections of pipe exposed. 1225 Have marked positions of exposed pipe and joints. Reach 24m and leave marker #59 for inspection divers inspecting the pipe from shore. 1226 Move back down pipe inspecting diffuser ports, manhole covers and joints. 1340 72m At flap gate. Still a strong current out of the West. Able to determin flap gate is broken in part of strong flow and low visibility.

Pilot's Signature: Terry Kerby Date: 11/2/11

Operations Director: Terry Kerby Date: 11/2/11

For equipment deficiencies, refer to maintenance logs.

*1423 Move South to get to deeper water for recovery. 1439 Leave the bottom from 166m.