

## PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-845 Date: Nov. 20, 2014  
 Observer 1: Andrew Rocheleau  
 Affiliation: Sea Engineering Inc Dive Location: Sand Island Outfall  
 Observer 2: Pat Ross Latitude: 21° 16.725' N  
 Affiliation: Sea Engineering Inc Longitude: 157° 54.605' W  
 Purpose: Research Training Test Time of Dive: 23:52  
 Equipment Used: Pipe Survey Time of Surface: 07:26  
 Cameras: Mini Zeus HD - ROS-SD Time Submerged: 7:32  
 Manipulators: Titan 4 - HYCO Time Thru Last Dive: 5676:43  
 Samplers & Sensors: Two sample baskets Total Time to Dive: 5684:15  
 Support Vessel: R/V Kaimikai-O-Kanaloa Dive Depth: 475m  
 Captain: Don Jack Water Depth: 475m  
 Water Temperature: \_\_\_\_\_

Dive Narrative: Dive to inspect problem with flapgate at the discharge end of the Sand Island Sewer Outfall. Launch at midnight. The City and County can only shut down the discharge from the pipe from 1am to 4am. The discharge flow from the end of the pipe is so intense the we could not see what the problem was during the Pisces IV inspection of the pipe in 2012. 0001 In the water. 0005 Diving. 0013 Lend on a sandy bottom in 103m. 0017 Moving North to the pipe. 0032 76m at the pipe. Move down the length of the pipe inspecting diffuser ports. 0103 73m Positioned at end of pipe. Very intense discharge. No visibility. waiting for flow to subside. 0200 Flow has subsided enough that we can see some debris jammed in the end of the pipe holding the flap gate open. I am able to remove some pipe and hose from the debris but find some debris with the full weight of the door holding it in place. Remove all loose debris with Titan 4. Flap-gate will have to be opened to remove

Pilot's Signature: Terry KerbyDate: 11-27-14Operations Director: Terry KerbyDate: 11/23/14