



GLOBAL
Diving & Salvage, Inc.

GLOBAL NEWSLETTER

www.gdiving.com

Volume 3 | Issue 4

December | 2014



WATER TREATMENT POND | HAZMAT DIVING

Global was contracted by Central Environmental Inc. to provide hazmat diving services to remove 50 drums of hazardous materials from a water treatment pond located at Eielson Air Force Base outside of North Pole, AK.

The water treatment pond was used as a dumping ground many years ago. Previous sonar imaging indicated that there may have been as many as 200 drums of various hazardous materials in the pond.

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Global mobilized a 5-man team comprised of Christopher Amberg, Jim Givan, George Marin, Kyle Watson, and Jeremy Zimmer to Eielson AFB. Because of the unknown contents of the drums, Global spent the first day of the project setting up a thorough decontamination station and a sturdy ingress/egress ladder for the diver. They deployed oil containment boom around the perimeter of the work area and briefed the client on the details of the operation.

Once the first diver entered the water treatment pond, it didn't take long to determine that the initial estimate of 200 drums was very conservative and that the quantity of drums likely exceeded 1,000.

Crews quickly developed a system whereby shoreside personnel would give an empty salvage drum to the diver who would then load a hazardous material barrel into the salvage drum and place a lid on it. A lift bag would next be installed to float the drum to the surface. A small boat would then tow the lift-bagged drum to the shore where a waiting excavator lifted the drum from the water and placed it in a drum storage area.

As this project was a preliminary phase to a larger remediation project, Global was tasked with removing 50 drums, which was completed in five days. Decontamination of the diver, other personnel, equipment and tools was the largest challenge of the

project.

Kyle Watson, Global's project manager, reported that "the most persistent contaminants that we encountered were asphalt emulsions. The emulsions were very viscous, and once they found a home on the diver's dress, it was very difficult to get off." Crews used diesel fuel to cut the asphalt and followed and followed it with degreaser to clean the diesel off of the diver's hazmat suit.

Throughout the project the decontamination process was given high focus. The hazmat suit ended up having to be disposed of at the end of the project, but daily decontamination was necessary to prevent the spread of contaminants around the job site in between dives.



8,000 FEET OF SEAWATER



The BW Pioneer is moored in the Gulf of Mexico at a depth of 8,000 feet. It is the only Floating Production Storage and Offload (FPSO) in the Gulf of Mexico, and it's the first of its kind built with a Disconnectable Submerged Turret Production Mooring System. This system allows the FPSO to disconnect from the buoy and head to sheltered waters in the event of a hurricane.

In November, Global was asked to perform a 5-year UWILD on the vessel and an extensive UT study on the submerged turret. Diving was to be conducted from the deck of the Pioneer during production with only 2 available locations to set up the IMCA dive spread. Global and its crew were up to the task, designing and engineering a solution to an unusual problem.

The crew consisted of: Mike Herness, Jim Givan, Paul Holden, Colins Goertzen, Shaun Roberts, Kelly Aguerro, Cale Hoffman, Matt Saenz, Kalin Martushev, Jacob Bannach, Dominik Miles and John Lapeyrouse. Many thanks to all of the office staff who helped with the project.



Drum Gate Sediment Removal

Global Diving recently completed a rigorous underwater inspection and maintenance program on the Cresta Dam drum gate system located in Plumas County, California.

The work was a significant part of an inspection protocol developed following modifications performed to both the Rock Creek and Cresta Dam drum gates in 1999-2000. The primary maintenance task was removal of sediment accumulation in the drum gate chambers that presented a hazard to normal and safe gate operation. The project was unique and challenging due to strict environmental regulatory constraints. This required separation of the sediment suspended in the dredge outflow, disposal of the retained sediment offsite, and treatment of the retained effluent to the degree allowing its return to the reservoir free of turbidity and retained solids.

The initial phase of the project was performed in the fall of 2013 at Rock Creek Dam with a large, barge based water treatment system. Lessons learned during the Rock Creek Dam project resulted in significant changes to the treatment

process for the Cresta Dam effort. As at Rock Creek Dam, divers conducted penetration dives through 48" inlet piping into two drum gate chambers measuring 28x124 feet, removing accumulated sediment from the chambers using a 4" diesel suction dredge.

In contrast to Rock Creek Dam, however, the material was transported via hard and soft plumbing over several hundred feet along the crest of the dam to two 18,000 gallon settling tanks stage topside. The modified treatment process separated the sediment from the water using a polymer additive, returning the water to the reservoir after running it through a weir tank system and polishing filters. The retained sediment was removed from the tanks by a vac-truck and transported to a disposal site 12 miles away.

Both drum gates were fully cleared of sediment, and the project was completed under budget and on time. The two year drum gate maintenance effort at Rock Creek and Cresta Dam resulted in development of a proven process that will be used as a template for future projects.

Thank you to the crew for all of their hard work - Spencer Dell, Brian Donnalley, Dave Gill, Fred Foster, Rick Heaslet, Kevin Severns, Joel Silver, Jared Soares, and Victor Tucker.

PRESENTING THE EMPLOYEE AWARDS.....

Global has always—and will always—place the safety of its employees in the highest regard. We are proud to announce the recipients of the annual Safety Awards for their participation in maintaining the highest safety standards on current projects and helping ensure that it is improved on future endeavors.

- Alaska - Zach Coots
- California - Joel Silver
- Gulf Coast - Shaun Roberts
- PNW - Alex Hess

Since 2006, Global has awarded the unique 'Yoke' to an employee who goes above and beyond. The Yoke Award plaque appropriately reads, "Presented annually to the employee who best exemplifies the Global spirit by their willingness to shoulder the load."

It comes with great pride that Global announces the **Yoke Award winner is Randy Baron**, the Pacific Northwest Dive Operations Manager.

NEW Resource Calendar

This is a new online employee resource for upcoming Global events. Listings include safety meetings, training opportunities, HR enrollment dates, office closures, parties, and other important Global proceedings.

The employee resource calendar is available on the Global website for all employees to access information.

www.gdiving.com/calendar

Makah Nation: Remediation Efforts on Tatoosh & Waadah Islands

For several years, Global has worked closely with the Makah Nation to remediate abandoned military structures and soil contamination on tribal lands. Over three weeks this year, Global demolished 3 munitions bunkers and 5 other structures; removing several hundred cubic yards of lead-and-petroleum contaminated soil from Tatoosh and Waadah Islands. The work was conducted on both islands concurrently, and all materials were moved by helicopter.

Tatoosh Island is a rugged island off Cape Flattery while Waadah is a heavily-forested island at the mouth of Neah Bay. Both islands have major cultural significance for the tribe.

During WWII, the US military had a considerable presence on these islands. This project is part of an ongoing effort to return these islands to their natural state by removing legacy structures and contaminated soil.

A landing zone was established in Neah Bay to service both worksites. Helicopters transported excavators and flew all materials and personnel. Despite uncooperative weather the project was successfully completed.

Thanks to the crew: Chris Stokes, Jeff Eyler, Brent Seymour, Ernie Cheeka, Daniel Tejano, Jeremiah Greene, Thuan Ngo, Pat Chappelle and Alex Hess.



OREGON ANCHOR RECOVERY

During installation of a prototype wave power generation facility in the high swell area of Oregon's Pacific coast, a 600-ton anchor was damaged and misplaced in 220 feet of seawater. Located two miles offshore of the rugged coast in one of the most challenging marine environments, the anchor consisted of a massive concrete cylinder that was 32 feet in diameter with a height of 27 feet and had multiple internal tanks.

Global was called in to retrieve the anchor. A detailed technical work plan was developed to repair piping, lighten the anchor using compressed air, and lift it with a custom-designed rigging system featuring heave compensation necessary for operating in the constant sea swells. Special laboratory testing was done to prove that our methodology would work. Despite the severe time restrictions of surface-supplied mixed-gas diving, Global's efficient and

experienced dive team completed repairs and rigging with only eight dives from Curtin Maritime's derrick and accommodation barge.

Utilizing Global's lifting system in combination with a tug, the anchor was safely raised to the surface and delivered to Coos Bay. Thank you to Bill Akan, Matt Ballard, Spencer Dell, Dave Edmisten, Dan Gilchrist, Chris Hume, Pete Jobes, John Lapeyrouse, Andy Lawrence, Sterling Ulrich, and Erik Woltjen.



PRESIDENT'S MESSAGE BY DEVON GRENNAN

As we reach the end of another busy year, I want to take a moment and thank everyone for the dedication and hard work that is demonstrated at Global every day, both in the field and in the office.

This year was marked with many successful projects and several high-profile casualty response, marine construction, and offshore projects throughout all of our regions. As many of you may have realized, we did not have any substantial "anchoring" projects in any of our service lines this year (projects spanning multiple months in duration and which keep us busy for long periods of time). This was very unusual considering the company's past ten years, but our management, bidding, and estimating teams are all working to ensure that the 2015 work schedule stabilizes.

Following a severely depressed and extremely competitive market in the Gulf Coast, we had to make the difficult decision to significantly downsize our Houston regional office. I can't say enough about the employees who continued to perform at the highest level over the course of the past year in this region, most notably Don Hosford, Shawntel Johnson, Karina Gonzalez, Matt Benesch, John Lapeyrouse, and Mike Herness. We all cannot thank them enough for their contributions.

Although we transferred a majority of the

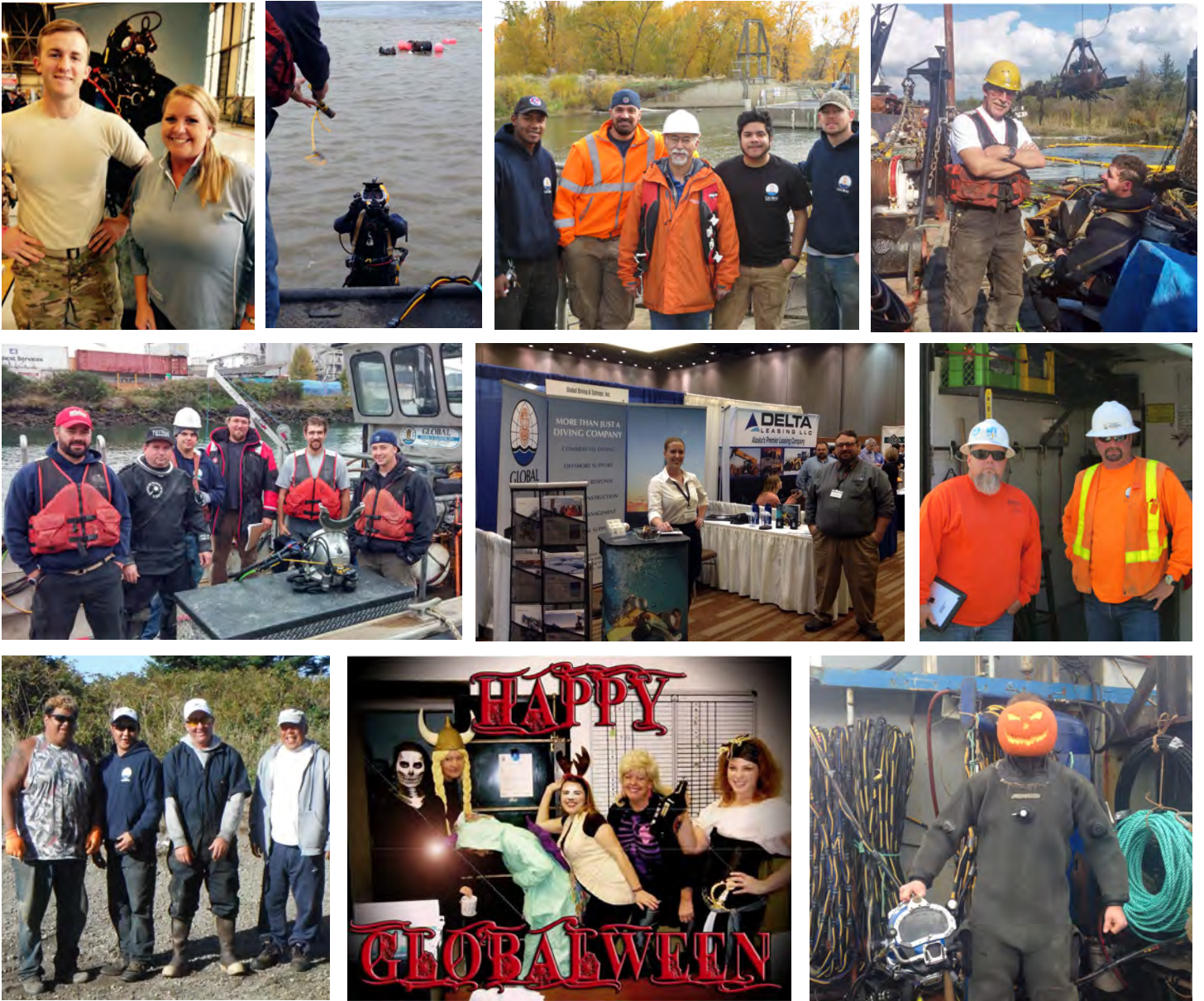
regional equipment back to the West Coast, we still have SAT IV and a full IMCA surface/mixed gas spread staged in Houston for rapid deployment. We are still actively bidding and developing business with oil and gas clientele for operations in the Gulf of Mexico and internationally. Offshore operations will continue to be an important strategy in Global's future.

Looking forward to 2015, we are placing a heavy emphasis on business development and expansion in a variety of services and locations. Internally, we are also looking very closely at how to have a more effective safety program and how we can get everyone engaged in the process. Safety is not only of paramount importance for our employees and their families.

Finally, we began a professional development campaign last April at our Summit; I am disappointed that we are not further along than we are. It still remains the most important thing we can do for our employees. Global is a company that relies solely on its employees to execute the professional work that our clients call us for, and a continued, forward thinking program will provide opportunities for both our employees and for Global.

Thanks again for everyone's hard work over this past year, and I'm looking forward to a prosperous 2015!

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Global Announcements:

Celebrating Years of Service* (based on original start dates)

10 Years: Pat Boyd, James Geissler, Paul Guiou, & Richard Rivers III

5 Years: Eric Crumpton, Andy Miller, Abraham Rodriguez, Shawn Taschner & Otto Visvader

New Faces in New Places

Kellan Anderson - Enviro Tech
 Scott Bingen - Anacortes Deckhand
 Spencer Brewer - Enviro Tech
 Andrew Castillo - Diver/Tender
 Robert Deavers - Diver
 Tyler Edwards - Enviro Tech

Jeremiah Greene - Enviro Tech
 Hugh Gunn - Diver/Tender
 Michael Harris - Diver/Tender
 Todd Horner - Diver/Tender
 Videll Montgomery - Enviro Tech
 Darwin Pichardo - Diver/Tender

Otha Smith - Enviro Tech
 Katy Stewart - Asset Coordinator
 Jonathan Sutton - Enviro Tech
 Damian Tejano - Enviro Tech
 William Warren - Diver/Tender

Equal Opportunity & Affirmative Action

Global Diving & Salvage, Inc. is an Equal Opportunity Employer and has in place EEO and Affirmative Action Policies. Global requests cooperation from its industry partners in meeting established goals in the hiring of qualified minorities, females, veterans and those with disabilities.