

A Qualifications Proposal Prepared For:

## **RFP #22-48 Diving Inspection Services**

**City of Ann Arbor Water Treatment Services**

**Bid Date: 6/8/2022**

Prepared By:

Ballard Marine Construction

Tony Raphael, P.E.

[tony.rafael@ballardmc.com](mailto:tony.rafael@ballardmc.com)

866.782.6750

### **CONFIDENTIALITY**

This proposal, including pricing, contains confidential and proprietary information and shall not be duplicated, used or disclosed – in whole or in part – for any purpose other than to evaluate this proposal for the specific project named above. The proposal and the information contained herein may be shared with Client's customer, employees, consultants and agents only to the extent such entities and individuals have a need to know such information in connection with the Project and have been informed of the confidential and proprietary nature of the information. Client shall take all reasonable precautions to prevent disclosure of confidential and proprietary information to any other person or entity. In the event Client or third party uses any information in this proposal for purposes other than as stated above, Ballard Marine shall not be liable in any way relating to such use.



6/8/2022

Customer Service Department  
City of Ann Arbor Water Treatment Services  
301 East Huron Street  
Ann Arbor, MI 48107

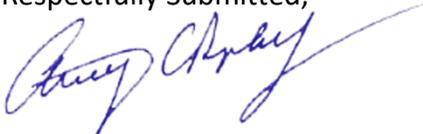
RE: RFP #22-48 Diving Inspection Services

Dear Customer Service Department,

Ballard Marine Construction (Ballard) appreciates the opportunity to submit our proposal for the RFP #22-48 Diving Inspection Services, as per your requested scope of work. Ballard personnel will comply with all local, state, and federal rules and regulations applicable to performance of our services.

Ballard looks forward to working with you on this project. Should additional information be required, or if I may be of further assistance, please do not hesitate to contact me.

Respectfully Submitted,



Ballard Marine Construction  
Tony Raphael, P.E.  
866.782.6750 | [tony.rafael@ballardmc.com](mailto:tony.rafael@ballardmc.com)

## PERSONNEL QUALIFICATIONS

### *Company Information and History*

Ballard Marine Construction, LLC (Ballard) has been working in the heavy civil marine construction industry since the 1970s; providing complete infrastructure inspection, construction, rehabilitation and maintenance solutions on projects worldwide since our inception. Ballard has always taken an innovative approach to offering highly technical heavy civil marine and underwater solutions to our local, national, and international clients in the power, transportation, environmental, water and wastewater, and industrial markets.

Ballard has three offices in the Midwest Region located in Detroit, Michigan; Neenah, Wisconsin; and Frankfort, Illinois. Operations for the City of Ann Arbor's Dive Inspection Services project will be performed out of our Detroit office, with support as needed from surrounding offices.

Home Office: 727 S 27<sup>th</sup> Street, Washougal, WA 98671

Detroit Office: 10254 Gratiot Avenue, PO Box 13950, Detroit, MI 48213

Ballard Marine Construction, a Limited Liability Company, is licensed to operate in the State of Michigan with a State Registration Number of 802034319 – expiration date 2/15/2023.

### *Inspection and Survey*

Providing highly technical inspection and survey services for national and international clients, Ballard's unequaled service-oriented and quality-minded approach has made us a leader in the underwater market.

Ballard accepts short and long duration assignments to perform condition assessments on all types of marine and underwater infrastructure. Through regular inspection and survey, we are able to help owners and their engineers understand their structures and develop plans for maintenance and rehabilitation, thus elongating the life of the system or facility. Working on world-class, multi-year infrastructure projects has allowed Ballard to continuously raise the bar for industry standards and expectations. The experience our team brings to the job is what has our customers calling us back, project after project.

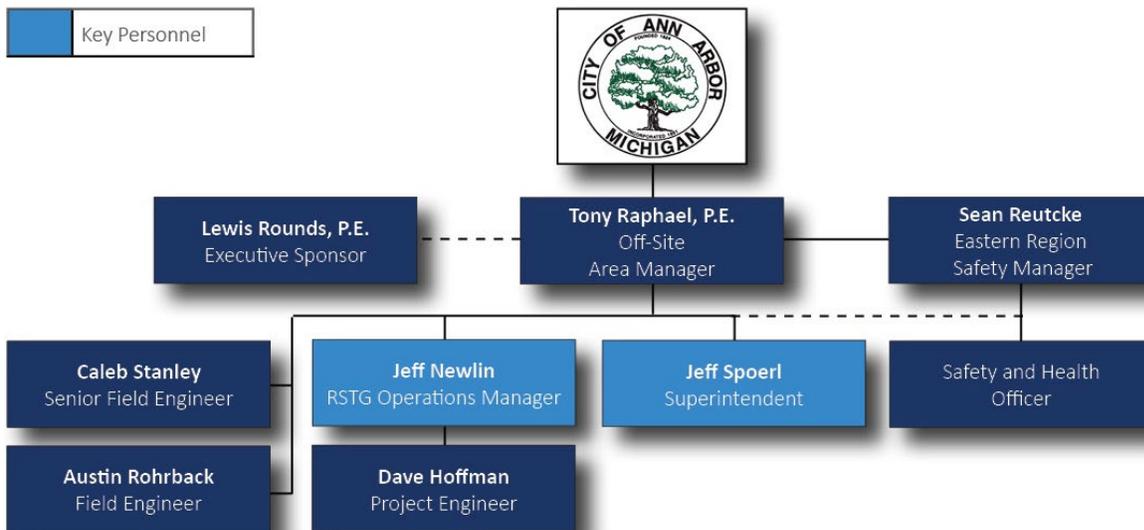
Ballard's inspection team has experience throughout the country, and internationally, conducting scheduled and emergency inspections on energy, industrial, infrastructure, and maritime sector projects with experienced and certified divers. Ballard also performs many underwater projects utilizing remotely operated vehicles (ROV), imaging sonar and laser scanning to increase safety and cost-efficiency. Through the use of a sophisticated Autonomous Underwater Vehicle (AUV), we can collect multibeam, side-scan, bathymetric, water sensor, and internal positioning data (GPS, INS, DVL) within very tight tolerances.

The Ballard team are experts at applying the right technology for the specific project and strive to limit diver exposure to underwater operations on hydroelectric projects and other sub-

aqueous facilities where head pressure differential and active equipment issues make manned operations more sensitive.

### *Staffing and Personnel*

Ballard Marine Construction has provided turnkey infrastructure construction, rehabilitation and maintenance solutions on projects worldwide for over 40 years. Ballard understands the benefits and efficiency of a collaborative project team with extensive marine experience. For the City of Ann Arbor’s Dive Inspection Services project, Ballard has specifically assembled a proven team with the most applicable experience on similar projects.



*Organizational Chart*

Resumes for the below personnel are included in Appendix A.

#### *Tony Raphael, P.E., Sterling Heights, MI Area Manager*

Tony’s experience set is in heavy civil marine construction, with a strong concentration in bridge substructure construction and demolition, wet utilities, and fender system protection systems. Specifically, Tony has managed design-Build projects, lead numerous estimating and contract writing efforts, and participated in negotiations with a variety of owners (private and public).

#### *Lewis Rounds, P.E., Director of Engineering Washougal, WA*

Born and raised on a farm in Eastern Idaho, Lewis has experience in many different fields including certified mechanic, shop supervisor, and R&D for high performance engines, working in gold mines in Nevada as laborer and estimator, construction as laborer, equipment operator, and supervisor. His professional career began after obtaining a BS in engineering at Idaho State University where his curriculum was designed with the goal of becoming a dam engineer.

Lewis’ professional career started with designing waste treatment facilities for dairies and as Vice President of a startup silica mining and processing company. In 1998, Lewis began working for the State

of Idaho as the Dam Safety Engineer (State Engineer) for the Idaho Department of Water Resources where he was directly responsible for the inspection and regulatory compliance of 168 dams and was involved in many others that required state and other agency collaboration with owners and regulators. During the next 8 years, while maintaining the Staff Engineers (Dam Safety Engineer) position, Lewis also held the positions of District Hydrographer for several water management districts, held an elected position as Water Master for WD 120, and worked closely with the USACOE on stream channel protection issues.

In January 2006, Lewis began working at NextEra Energy/Florida Power and Light (FPL) as the Corporate Dam Safety Engineer. While working at FPL, Lewis also held the title of Technical Services Leader in charge of the civil engineering group for the company. As the Dam Safety Engineer, Lewis had responsibility for 29 hydro related dams in Maine, 3-large above ground water retention reservoirs in Florida, cooling canal systems in Florida, a reservoir in Spain, and co-owned ash ponds in Georgia. Other assignments for FPL included various types of work including storm event prediction, most types of water related structures and pumping systems, storm water controls, solar field construction and operation, wind power construction and maintenance, work at nuclear facilities, combined cycle power plants, and conventional boiler type power plants.

*Jeff Spoerl, Orion Lake, MI  
Superintendent*

Jeff has been in the marine construction and commercial diving industry for 25 years and has worked on many different projects and in many different locations throughout the country. These experiences have provided him with a wealth of knowledge and has proven beneficial for both his employers and the clients they have worked for. His commitment to Ballard Marine Construction and his coworkers is only rivaled by his passion for his family. A few highlights include diving in the city of New Orleans after hurricane Katrina and providing safety support as the Project Safety Officer for AshBritt during Superstorm Sandy clean-up (including the hiring of Heritage Environmental to collect, transport and dispose of household hazardous waste throughout the affected area). Prior to attending dive school in Seattle, WA, he served in the United States Navy as a Surface Rescue Swimmer.

*Caleb Stanley, Detroit, MI  
Sr. Field Engineer*

Caleb Stanley's professional experience in marine construction covers four years and includes a strong focus on engineering services and technical understanding. Caleb's primary areas of expertise include engineering, technical investigation, project document control; cost accounting and tracking; hydrographic survey; and environmental protection. Caleb approaches his work with attention to quality and compliance, he is willing to go the extra mile for his team. Caleb's work ethic is founded on communication, technical understanding, and the ability to make educated decisions in a fast-paced environment.

*Austin Rohrback, Belleville, MI  
Field Engineer*

Goal-driven field engineer with experience in heavy civil and tunneling projects.

*Jeff Newlin, Neenah, WI  
Operations Manager*

Jeff Newlin's experience in marine construction and commercial diving includes twelve years of refined skill with a specialized environmental focus, in addition to expertise within the following disciplines:

subsurface marine construction; dredging; engineering design; emergency response efforts; hydrographic survey; bathymetric data collection and project supervision. Jeff approaches the management and supervision of his team members with an unbending pledge to safety, and proper planning given to highly challenging environments. Collective and open communication with his crew establish the foundation for Jeff's work ethic, yielding ownership of ideas, empowerment, and skillful execution of the task at hand. Jeff has both led - and performed - diving operations that have produced innovative technical solutions due to adaptability, and quick and efficient decision-making.

*Dave Hoffman, Neenah, WI  
Project Engineer*

Dave Hoffman's 30 years of experience working in heavy industrial environments includes eleven years as a nuclear operator for the Navy, a coal fire power plant manager, facility engineer, and four years Co-op intern for NASA. Dave graduated from Montana State University in 2018 with a bachelor's degree in Mechanical Engineering. His experience in marine construction and commercial diving includes three years of refined skill with expertise within the following disciplines: subsurface marine construction; dredging; engineering design; emergency response efforts; hydrographic survey; bathymetric data collection and ROV Operations. Dave is NASSCO Certified-PACP, MACP, LACP.

*Sean Reutcke, Bradenton, FL  
Eastern Region Safety Manager*

Sean is a dedicated, hands on, construction professional with fourteen years of experience in heavy civil, marine, electrical generation & transmission construction, and engineered crane lifts. Sean has managed safety and quality on a variety of complex and successful construction projects ranging from marine based operations involving cranes and commercial divers, to building wind & solar farms, substations & switchyards, overhead/underground transmission lines, battery storage facilities, and large concrete foundations. Sean is committed to ensuring the highest standards of worker safety, construction quality, and environmental compliance/sustainability, with on time performance and profitability. Sean will oversee local Safety personnel for the project.

## PAST INVOLVEMENT WITH SIMILAR PROJECTS

The successful delivery of this project requires the experience of a proficiently managed and dedicated team with a history of working on inspection projects of a similar nature. The City of Ann Arbor will benefit from our team's extensive history of inspection and survey experience, resulting in cost and schedule efficiency. The project summaries that follow demonstrate the experience of our team members with the identified scope items for the Dive Inspection Services Project.



*Raw Water Tunnel Inspections  
Detroit and Dearborn, MI*

*Reference:* Great Lakes Water Authority  
735 Randolph Street #1900, Detroit, MI 48226  
Todd King, 844.455.4592

The project involves inspection and repair of three of the existing underwater tunnel systems which supply raw water from the Detroit River to three different potable water treatment plants in the Detroit/Dearborn,

Michigan area. The three work zones under investigation and repair are the Pennsylvania, Springwells and Northeast Tunnels. The tunnels are in plant easements and city/roadway street ROW's at various locations. The Pennsylvania Tunnel system is a 14ft diameter tunnel with subsurface depths of 80 to 100ft of overburden above the top of the tunnel with an area of concern of 225 LF for repair. The Springwells Tunnel system is a 12ft diameter tunnel with subsurface depths of 80 to 100ft of overburden above the top of the tunnel with an area of concern of 800 LF for repair. The Northeast Tunnel system is a 10ft diameter tunnel with subsurface depths of 80 to 100ft of overburden above the top of the tunnel with an area of concern of 400 LF for repair. Both the Pennsylvania and Springwells tunnels are pour in place concrete hand mined tunnels with the Northeast Tunnel constructed with an outer liner of O'Rourke Block, and then an inner poured-in-place concrete liner which was also hand mined. The project includes the underwater inspection and evaluation of the damaged tunnels section to assist with the design-build repair options. All three tunnel sections required access into the system through existing vertical down shafts with diameters ranging from 8ft to 20ft. The repair options will include non-structural and structural repairs inside the tunnel system while the plants stay in operations, which will require divers working in light- to moderate-flow.

Due to the limited access shaft locations, the inspection portions of the project required long distance diver penetrations to the work zones with tunnel horizontal penetration depth varying from 1,400 ft up to 3,000ft. In order to assist the deployment of the long-distance penetration umbilical's, Ballard's crewing utilized specialized power sheave systems and rotation point sheaves for diver and tooling umbilical management. The crewing was also challenged by limited bottom time due to water depths. In order to maximize diver time, a custom mix breathing medium of NITROX was utilized which greatly extended the divers available underwater time and increase safety along with productivity.



### *Entergy Crib Inspection and Cleaning Benton Harbor, MI*

*Reference:* Entergy  
27780 Blue Star Memorial Hwy Covert, MI 49043  
Derik Little, 269.214.1092

During the 3-year on-call contract, Ballard provided Entergy with means and methods to complete services, that would normally require plant shut down, without operational impacts.

Ballard performed the following inspection, maintenance and repair services during a 3-year on-call contract:

- Spring Intake Cleaning and inspections
- Spring Navigation Buoy Installation
- Intake Crib Repairs
- Intake Crib Inspections
- Fall Intake Cleaning
- Fall Navigation Buoy Removal
- Fall Crib Inspections
- Have performed additional work, i.e., Valve Replacements, Cleaning of Discharge, Miscellaneous other work as required.
- Remotely Operated Vehicle (ROV) Inspections



### *Borman Park Intake Crib*

*Gary, IN*

*Reference:* Indiana-American Water  
P.O. Box 6029 Carol Stream, IL 60197-6029  
Edward Nickels, 219.880.2326

The four-phase design-build project scope included repairs to the Indiana-American Water intake crib located on Lake Michigan, as well as removal of debris and foreign material from the intake tunnel.

Phase One included the design and survey of the intake system and crib structure. Ballard provided in-house ROV inspection with video and sonar to a penetration depth of 16,000ft. and diving inspection services to assess the current condition of the intake pipeline and the crib structure.

Phase Two of the project required the removal of the broken-up portions of the intake crib, years of sediment buildup, logs, and mussels from the bottom of the intake tunnel. This work was performed with mixed gas diving from a floating plant to depths of 185ft. requiring specialized tooling and equipment.

Phase Three included the demo of the remainder of the crib structure down to its foundation. Once the old crib structure was removed, divers began preparation for the new precast crib components installation. A temporary chlorine halo diffuser ring was also constructed and installed inside the upper area of the vertical intake shaft for temporary zebra mussel treatment.

Phase Four included the construction of the intake crib. Ballard's unique design of utilizing precast concrete and the use of the original intake foundation was a key component of our success with this project. Ballard constructed the new custom designed interlocking crib structure on land and then mobilize the crib components to the intake site for installation. The new sections of the crib weighed between 10,000lbs to 40,000lbs and were installed with a barge mounted crane and diver support. During the installation process, divers utilized epoxy anchoring systems to assemble the modular intake structure and secure it to the crib foundation. Once complete, the zebra mussel chlorination system was upgraded by the installation of a twin set of 3-inch diameter HDPE chemical feed lines through the 16,000-foot-long horizontal tunnel system, along with a new upper diffuser ring.



### *Milk River Clean and Repair*

*Grosse Point Woods, MI*

*Reference:* Spence Brothers  
2929 Plymouth Rd, Suite 275 Ann Arbor, MI 48105  
Mike Linder, 734.213.6033

Ballard Marine Construction performed the underwater inspection and repair of the Milk River Drainage District seventy-two-inch intake pipe located in Gross Point Woods, Michigan. The purpose of this pipe is to draw water from Lake St. Clair for the Milk River Recirculation Pump station. Ballard provided an independent inspection of the intake pipe with a

certified professional engineer diver to ascertain the overall pipe's condition, particularly in the areas where there was pipe deflection. Through this inspection, Ballard was able to video the project and make recommendations to the Milk River Intercounty Drainage District regarding risk/safety associated with future repair work. This included issues like any potential for injury to resident or park staff if left as is until design improvements could be made.

The Ballard dive team cleaned out 2,500 linear feet (LF) of seventy-two-inch diameter Storm Combined Sewer Discharge (SCS) with an estimated average of up to four feet of material in the invert. The project also required repairs to be made with Hydra-Tite internal band products. Ballard sent divers in three different sections of the 2,500 LF pipe. They penetrated approximately 800 feet each time through junction boxes along the intake and worked their way back in cleaning the pipe of marine growth. Video inspection of completed work including cleaning, repairs, line installation, and deliverables of inspections were provided to the client.

## PROPOSED WORK PLAN

Ballard Marine Construction (Ballard) will assign a single point of contact for this project. This single point of contact, Jeff Spoerl, lives and is assigned to Ballard's Detroit area office. He will be the City of Ann Arbor's (City) first call when the need arises. Secondary to Jeff, Ballard had developed the below phone tree to ensure that no matter when the City has an issue that would require Ballard to act immediately, we will be there to meet their needs.

- 1st – Jeff Spoerl, Superintendent
- 2nd – Caleb Stanley, Senior Field Engineer
- 3rd – Austin Rohrback, Field Engineer
- 4th – Tony Raphael, P.E., Area Manager

Depending on the urgency of the issue and required services will determine our next steps. We have outlined three (3) different levels of response based on experience and keeping the coordination and communication with City streamlined so there is one point of contact from Ballard.

### *Level 4 – Routine Inspection*

1. City calls to inform Ballard that a routine inspection is needed at a facility.
2. Ballard will schedule this routine inspection to be performed within the required 14 days of notification from the City, as required by this RFP.
3. Ballard will follow up with inspection report and video/pictures within 72 hours after inspection.

### *Level 3 – Inspection with Findings of Repair Required*

1. City calls to inform Ballard that a routine inspection or repair is needed at a facility.
2. Ballard will schedule the inspection or repair to be performed within the required 14 days of notification from the City, as required by this RFP.
3. During the course of the inspection, direct communication with the primary stakeholder for the City will be high priority. As such, if it is determined that maintenance or repair is needed, depending on the severity or scope of findings, Ballard will work to minimize any impacts to the City's Water Treatment operations.
4. If this repair or maintenance is something that can be taken care of immediately, and the key stakeholders can make the decisions and no other stakeholders need to be involved, Ballard will commit to staying on-site to complete the repair or maintenance.

5. If the repair goes beyond the key stakeholder's subject matter expertise or other stakeholders need to be involved, Ballard will follow up with inspection report and video/pictures within 72 hours after inspection. It is our intent that with every problem or finding of issue that we also offer a solution. Ballard will not simply submit an inspection report with our findings. We will work within our internal and even external resources to solve the problem.
6. Once the stakeholders have had a chance to review and agree upon a solution, Ballard will schedule the repair or maintenance to be performed within the required 14 days of notification as required by this RFP.

#### *Level 2 – Repair or Maintenance Required – Impact to Water Treatment Facilities*

1. Ballard will have manager or key personnel on-site within four (4) hours of receiving the call.
2. From the time of the call, Ballard, as required, will have a crew with equipment on-site and ready to dive or inspect within twenty-four (24) hours.
3. Ballard will remain on-site and work around the clock until the issue that is causing the impact to the facility is resolved, or at such time as the City determines Ballard is no longer needed on-site.

#### *Level 1 – Immediate Impacts to Life or Safety - Water Treatment Facilities*

1. Ballard will have a manager or key personnel on-site ASAP. Our four folks on the phone tree are local to the Detroit metropolitan area and should be able to reach any of the City's facilities within an hour.
2. From the time of the call, Ballard, as required, will have a crew with equipment on-site and ready to dive or inspect within six (6) hours.
3. Ballard will remain on-site until the threat has been eliminated or the City no longer requires our involvement.

It is Ballard's intent that by assigning a seasoned and experienced individual as the first call, next steps regarding the response are made easier for the City and its' stakeholders. Ensuring that we provide the requested services and information back to the City in a timely manner is our number one priority. Not only finding issues or problems, but also bringing solutions to the stakeholders is important. This can help to streamline the process of maintenance and repair, and hopefully eliminate any future downtime for any facility.

#### *Communication and Coordination*

Ballard has a proven record of collaborating with owners, such as the City of Ann Arbor, to deliver cost-effective, timely solutions. Combining our construction experience with our quality programs, and through the utilization of the appropriate lean techniques like pull planning, we can often accelerate schedules, reduce cost, and meet the specific needs of our clients in ways that are not always captured in an engineered budgetary estimate. A recent example of this is the GLWA water tunnel repair project where Ballard was able to provide schedule compression, while still adhering to environmental considerations, through proper planning.

As a turnkey marine contractor, water and wastewater facilities have been a major part of our historical work. With a historical production and technical means and methods database that extends back over 20 years in all aspects of construction, including earthwork, concrete, steel, piling, wood, rock, mechanical systems, and shallow and deep diving, Ballard can quickly identify potential technical approaches and accurately estimate the cost of those various approaches.

### *Working Relationship Between the City of Ann Arbor and Ballard Marine Construction*

Ballard maintains a complementary relationship with the City of Ann Arbor, strengthened by our understanding of the City's contractor needs and our ability to meet and exceed these needs through detailed communication efforts. Ballard intends to repeat operational excellence, as demonstrated through our recent Barton Pump Station project, through enhanced safety, innovative means and methods, implementation of LEAN practices, and quality delivery.

### *Philosophy in Regards to Performing Requested Services*

Ballard understands the importance of the facility's need to operate uninterrupted and will always look to find ways to perform these inspections and/or repair and maintenance without interruption. However, we cannot sacrifice safety of our diver and exposure to differential pressures that often occur in this type of inspection. Keeping an open dialogue between the parties at all times and thinking outside the box can often lead to innovative solutions that help us find a way to work without interruption of the facility.

## **AUTHORIZED NEGOTIATOR**

The following individual is authorized to negotiate on behalf of Ballard Marine Construction, LLC:

Tony Raphael, P.E.

912.438.1058

tony.rafael@ballardmc.com

# Appendix A

## Resumes



**POSITION:**

Operations Manager

**YEARS OF EXPERIENCE:** 21**YEARS EMPLOYED BY FIRM:** 2**EDUCATION:**BS Construction Management,  
Louisiana State University, 2000**PROFESSIONAL CERTIFICATIONS  
AND AFFILIATIONS:**

Supervisors Training

Working at Heights

CPR/First Aid and O2 Provider

10-hour &amp; 30-hour OSHA

Virginia PE License - 043609

MI Stormwater Operator-  
Construction Sites – C-21408**TONY RAPHAEL, P.E.**

Tony's experience set is in heavy civil marine construction, with a strong concentration in bridge substructure construction and demolition, wet utilities, and fender system protection systems. Specifically, Tony has managed design-Build projects, lead numerous estimating and contract writing efforts, and participated in negotiations with a variety of owners (private and public).

**Relevant Experience****Repair of Portions of the Springwells, Pennsylvania, and Northeast Raw Water Tunnels, MI | \$79M | GLWA | 2019-Present**

Project Manager for the project involving inspection and repair of three of the existing underwater tunnel systems which supply raw water from the Detroit River to three different potable water treatment plants in the Detroit/Dearborn, Michigan area. The three work zones under investigation and repair are the Pennsylvania, Springwells and Northeast Tunnels.

**UPRR Bridge over San Bernard River | San Bernard, TX | \$19M | Union Pacific Railroad**

Removal of an existing swing span bridge and replacement with a vertical lift. The existing swing span was removed, and new lift span slid into place using accelerated bridge construction methods in 72-hours. The new span was built parallel to the existing rail on new foundations in advance of the changeout. Included was all new mechanical and electrical machinery, limit switch, FRA and USCG required safety mechanism and new rail.

**I-4 Ultimate Area 1 Kirkman Interchange to Rio Grande Ave, FL | \$225M (\$2.3B) | FDOT**

Demolition of three bridges and relocation of all utilities in the Kirkman and I-4 Interchange (Universal Studios) in Orlando, FL. New 24" 36" and 48" HDD installations under I-4 with no traffic closure for relocation of water, sewer, fiber and cable for Intelligent Transit Systems.

**Disney's Hollywood Studios Parking Lot Addition, FL | \$100M | WDW Imagineering**

Design-Build of a 35-acre addition of parking at the Hollywood Studios attraction in Orlando, FL. Clear and grub adjacent to environmentally sensitive wetland areas. Design and build conveyor over World Drive to move 1.7 million cubic yards of fill material so that trucking did not interfere with guest traffic on the property. Extend wet utilities to new lot and install conduit and raceway for power and fiber upgrades.

**Disney's Hollywood Studios BOH Demo and Utility Upgrades, FL | \$40M | WDW Imagineering**

Design Build for the demolition of closed attractions that included capping and removal of power, fiber, chilled water, potable, sanitary and all other utilities. Reroute of said utilities without interruptions to an extremely customer-oriented client.

**Treated Water Conduit Rehab/Korah 3 and Replacement, VA | \$18M | City of Richmond Department of Public Utilities**

Included the replacement of 5400 LF of existing 54" Cast in place conduit with a combination of 60" ductile iron pipe by open cut installation and 48" steel slip line of existing conduit. Also included is the replacement of 6400LF of an existing 36" water main with 36" ductile iron pipe. Modifications to existing piping, SCADA systems at the main

WTP, and meter vaults. Located between a pair of CSX tracks and the James River created quite a coordination challenge and environmentally sensitive project.

**Shockoe Bottom Drainage Improvements Phase 2, VA | \$10M | City of Richmond  
Department of Public Utilities**

In a first step to separate Combined Sewer Overflows (CSO) from storm water overflows, the City of Richmond designed a crossover chamber controlled on four sides by sluice gates. The north and south gates are used to regulate storm water flows while the east and west gates regulate CSO flows. Project rationale was to collect overland storm flows and send them through a small tunnel built within the crossover chamber separated from CSO flows. In addition, CSO flows were directed over the tunnel to the retention basin for treatment at the plant.

As a second step, the East Gravity Outlet Sewer was tied into existing storm water flows via a box sewer to eliminate any overflows from the EGO Sewer. Corman placed over 2,500 CY of concrete and installed large flap gates and sluice gates. Also included were temporary shoring, watertight bulkheads and dams to prevent river and overland flooding in the work zone.

**Four-Mile Creek Trunk Sewer Rehabilitation, VA | \$8M | Henrico County Public Utilities**

Replacement of the existing 60" Four-Mile Creek Trunk Sewer via furnishing/installing approximately 9,000 LF, 60" FRP mortar pipe; connecting existing collector sewers to a new 60" sewer, including transfer of flows, providing precast concrete manholes, two new reinforced concrete junction chambers, and new 84" casing pipes under Darbytown Road and I-895. Finally connecting the new 60" sewer to the existing 72" and 84" sewers, including transfer of flow.

**Battery Park Sewer, VA | \$2.1M | City of Richmond, Department of Public Utilities**

Corman performed as subcontractor for this project consisting of excavating the existing Bacon's Quarter Sewer Tunnel to place a new concrete tie in structure for the relocation of a 110" sewer tunnel (bored by contractor). Formed, placed, finished and cured approximately 700 CY of concrete.

Due to Tropical Storm Ernesto, over 80 acres of land flooded resulting in the damage of 32 structures and facilities in the Battery Park area. As part of an emergency project, Corman was contracted to install a 72" RCP bypass sewer to take flows from the damaged tunnel. Over 600 LF of 72" RCP pipe and 4- 10' diameter manholes were installed through a closed municipal landfill.

**Huguenot Road Water Transmission Phases I and II, VA | \$7.2M | City of Richmond,  
Department of Public Utilities**

This project consisted of 10,000 lf of 36" Ductile Iron Pipe Water Main crossing the James River. The river was blasted, and rock removed to create a trench for the pipeline. Divers laid the pipe on the newly created river bottom and backfilled with gravel, ACBM and shot rock.

**Richmond City Center Utility and Drainage Improvement, VA | \$3.2M | City of Richmond, Department of Public Utilities**

Work consisted of the installation of drainage structures and related piping, water and gas main, and replacement of sanitary sewer main.

**Patterson Avenue Water Main, VA | \$3.1M | Henrico County, Department of Public Utilities**

Work consisted of installation of 5400 LF 24" Ductile Iron Water main and a 850 LF 42" HDPE installed via HDD under Tuckahoe Swamp.

**Bailey's Bridge Force Main, VA | \$2.1M | Chesterfield County, Department of Public Utilities**

Work consisted of installation of 15,175 LF of 36" and 42" PVC Sewer Force Main.

**Mackinac Bridge Traveler Replacement, MI | \$14.2M | Mackinac Bridge Authority**

This project consisted installation and alignment of approximately 7200 LF of traveler rail and structural support steel for the installation of 3 new Inspection Travelers on the Suspension portion of the existing bridge. Install new access platforms on the North and South Truss Spans to the Inspection Travelers. Install new Inspection Travelers on the North and South Truss span.

**Florida Avenue Bridge, LA | \$44M | Port of New Orleans**

This project consisted of new approaches and installation of a new 342' long vertical lift bridge including all mechanical, electrical and rail equipment. This bridge included 2 lanes of vehicular traffic as well as Norfolk Southern rail traffic. Also included in this project were new floodwall structures as well as demolition and removal of the existing bascule.

**POSITION:**

Director of Engineering

**YEARS OF EXPERIENCE:** 25

**YEARS EMPLOYED BY FIRM:** 3

**EDUCATION:**

Idaho State University, B.S. in  
General Engineering with emphasis  
on Civil Engineering, Fluid Dynamics,  
and Soil Mechanics, 1996

**PROFESSIONAL CERTIFICATIONS  
AND AFFILIATIONS:**

Professional Engineer: ID, FL

Bureau of Reclamation S.E.E.D., filter  
design, and dam stability training

USACOE dike and levee training

NRCS dam design certified

FERC inspection and design training

ASDSO State of Idaho Representative  
(2001-2005), and currently a  
member

**LEWIS ROUNDS, P.E.**

Born and raised on a farm in Eastern Idaho, Lewis has experience in many different fields including certified mechanic, shop supervisor, and R&D for high performance engines, working in gold mines in Nevada as laborer and estimator, construction as laborer, equipment operator, and supervisor. His professional career began after obtaining a BS in engineering at Idaho State University where his curriculum was designed with the goal of becoming a dam engineer.

Lewis' professional career started with designing waste treatment facilities for dairies and as Vice President of a startup silica mining and processing company. In 1998, Lewis began working for the State of Idaho as the Dam Safety Engineer (State Engineer) for the Idaho Department of Water Resources where he was directly responsible for the inspection and regulatory compliance of 168 dams and was involved in many others that required state and other agency collaboration with owners and regulators. During the next 8 years, while maintaining the Staff Engineers (Dam Safety Engineer) position, Lewis also held the positions of District Hydrographer for several water management districts, held an elected position as Water Master for WD 120, and worked closely with the USACOE on stream channel protection issues.

In January 2006, Lewis began working at NextEra Energy/Florida Power and Light (FPL) as the Corporate Dam Safety Engineer. While working at FPL, Lewis also held the title of Technical Services Leader in charge of the civil engineering group for the company. As the Dam Safety Engineer, Lewis had responsibility for 29 hydro related dams in Maine, 3-large above ground water retention reservoirs in Florida, cooling canal systems in Florida, a reservoir in Spain, and co-owned ash ponds in Georgia. Other assignments for FPL included various types of work including storm event prediction, most types of water related structures and pumping systems, storm water controls, solar field construction and operation, wind power construction and maintenance, work at nuclear facilities, combined cycle power plants, and conventional boiler type power plants.

**Relevant Dam Experience****Dam Types:**

Having direct responsibility for over 200 dams as either a consultant, regulator or owner, Lewis' extensive experience covers dam projects from a variety of locations, sizes and types. His expertise covers the inspection, construction, rehabilitation and maintenance of most types of dams and appurtenant features such as: zoned earth fill, core walls, homogenous embankment dams, rock crib dams, wood crib dams, concrete gravity dams, concrete arch dams, gravity/arch dams, multiple arch dams, coal ash ponds, and roller compacted concrete dams (entire and cover). This impressive experience, combined with his knowledge of providing services from the private and public sector, makes Lewis one of the most highly regarded dam safety experts in the United States.

### **Dam Services:**

#### *Design and Remediation*

Lewis has been involved in all facets of dam design, including work as an owner collaborating with designers and construction companies, as a design engineer responsible for conceptual design through 100% completion design, and as a regulator – providing design, review and conceptual design expertise. He has experience collaborating with designers and contractors through the Early Contractor Involvement stage and is well versed in the benefits of value engineering. Lewis' design experience includes:

- Designed entire dams including concrete, embankment, and combination dams;
- Designed Dam components including spillways, radial gates, slide gates, caterpillar gates, Stoney gates, roller gates, split gates, labyrinth weirs, flashboard sections, stop logs, tipping gates, Ogee, fuse plugs, Obermeyer and rubber dams, and associated operating mechanisms;
- Performed Hydrographic studies, storm basis design, PMF/PMP design flood analysis, and storm flood analysis;
- Foundation design including cutoffs, seepage walls, and keyways;
- Worked on hydropower outlet tunnels, penstocks, intakes, generators, turning veins, draft tubes, stilling basins, needle valves, low level outlets, surge tanks, and equalizer towers;
- Design a variety of drain systems including toe, chimney, core, and pump down systems that were installed during initial construction and installed as a part of a remediation project.

#### *Inspection and Evaluation*

Lewis has worked on over 200 dams in his career. This work varied from routine safety evaluation of existing dams, regulatory compliance, modification for improvement and problem solving for deficiencies. He has worked with the Bureau of Reclamation, FERC, USACE, and NRCS as a regulator, consultant, and owner, as well as working with private and municipal power companies, irrigation companies and manufacturing companies. His inspection and evaluation experience covers dams, appurtenant features, and ancillary components associated with dam ownership and operation. Along with regularly scheduled routine inspections, Lewis has participated in inspection and documentation including;

- FERC Part 12 inspections
- PFMA exercises
- EAP Tabletop exercises

Where mitigation for deficiencies is required, Lewis has been deeply involved or directly responsible for the determination of mitigation options and choosing the most cost-effective means and methods for repair. Lewis has been involved in studies of remaining useful life, karst formation risk, storm return periods, and capacity evaluations.

#### *Rehabilitation*

Lewis' dam safety rehabilitation experience is second to none, as he's been involved in fifteen dam replacement projects. With three of the replacements being on the owner's side, and twelve replacements in the role of Regulator or design lead as a consultant. Lewis

understands all of the components needed for a successful dam replacement and rehabilitation. Because of the large number and variety of dams involved some dating back to the mid 1800's, rehabilitation of the dams and appurtenant features in a cost-effective manner while considering expected life cycles and conditions has been a large part of Lewis's career. Lewis is a member of ASDSO (was the Idaho State Representative from 2000 through 2005), USSD, and ASCE all of which assist in staying up to date on current technologies and accepted practice for mitigation, rehabilitation, and inspection of dams.

#### *Maintenance*

Along with all the services mentioned above, Lewis' dam maintenance work is inclusive of all the components detailed in the *Design* section. He provided expert recommendations for improvements in dam safety, as well as continuation of dam life cycle. Lewis was also responsible for major maintenance projects that were design to reduce O&M expenses, automate routine task, provide for real time monitoring of critical information, and assure the proper training of maintenance personnel.

#### **Ballard Marine Construction – April 2019 – Current**

As the Director of Engineering for Ballard Marine Construction, Lewis is responsible for the engineering department, department employees, and compliance with the Engineering Policy of Ballard. Major tasks of the engineering department at Ballard include estimating support, constructability review, value engineering, quality control/quality assurance, engineer lead inspections, and heavy involvement in ECI (early contractor involvement), design build, and EPC (Engineering, Procurement, Construction) contracts.

**POSITION:**

Southeast Division Safety Manager

**YEARS OF EXPERIENCE:** 14

**YEARS EMPLOYED BY FIRM:** 3

**EDUCATION:**

B.S., Business Administration,  
Colorado State University

**PROFESSIONAL CERTIFICATIONS  
AND AFFILIATIONS:**

OSHA Training Institute - 10 hr  
Construction, 30 hr Construction,  
OSHA 500

California OSHA 30 hr for  
Construction

Ontario MOL 30 hr (Canadian OSHA)

NTT Training Institute - NFPA 70e  
(High Voltage Safety w/ Arc Flash)

LOTO

Confined Space Entry

Crane Institute of America -  
Managing Crane Safety, Hoisting &  
Rigging Safety

Root Cause Analysis (RES, BP, FPL)

ISO 9001 Quality Auditor (RES)

First Aid/CPR/AED Certified &  
Current

Emergency Oxygen Administration  
Certified & Current

Project Management 1, Introduction  
to PMBOK (RES Internal 30 hr  
training)

Stormwater One – Qualified  
Stormwater Inspector, Qualified  
SWPPP Preparer

National Eagle Scout Assn.

**SEAN REUTCKE**

Sean is a dedicated, hands on, construction professional with fourteen years of experience in heavy civil, marine, electrical generation & transmission construction, and engineered crane lifts. Sean has managed safety and quality on a variety of complex and successful construction projects ranging from marine based operations involving cranes and commercial divers, to building wind & solar farms, substations & switchyards, overhead/underground transmission lines, battery storage facilities, and large concrete foundations. Sean is committed to ensuring the highest standards of worker safety, construction quality, and environmental compliance/sustainability, with on time performance and profitability.

**Relevant Experience****Ballard Marine Construction | 2017-Present**

Serving as the SE Division Safety Manager for a global marine and civil infrastructure construction company working for public and private clientele. Provide safety oversight for a variety of marine based construction activities. Managed activities include land and marine based cranes, dredges, and excavators, underwater diving/construction activities, concrete placement and concrete/steel demolition.

**Responsibilities**

- Managed and led deployment of the company Safety Program in addition to Client safety programs at multiple projects throughout the SE Division.
- Managed and led performance of daily work site compliance inspections.
- Performed and coached performance of weekly behavior-based Hazard Hunts targeted at workplace hazard recognition and mitigation.
- Coached craft in development of Work Plans & Activity Hazard Analyses documenting safe work practices.
- Developed and delivered Safety Induction/Orientation Safety Training for all new project employees.
- Managed and coordinated project material & equipment suppliers, third party inspection firms, environmental and quality monitoring representatives, and site security.
- Managed the Safety of a sizeable, non-Ballard employee labor force.

**RES America Construction Inc. | 2006-2008, 2009-2017**

Served in increasingly responsible construction and HSQE roles over eleven years (15 wind projects, 3 battery storage projects, 1 distribution line equipment replacement project (hot work)). QA/QC Inspector (2006-2008), Safety Supervisor (2009-2011), Lead Safety Supervisor (2012 -2015), HSQE Supervisor (2016 – 2017).

**Responsibilities**

- Managed and led deployment of the company Safety, Quality, & Environmental Management Systems at Wind, Battery Storage, Substation, and Electrical Transmission/Distribution construction projects throughout North America.
- Conducted accident/incident investigations and Root Cause Analysis.
- Managed and led performance of daily work site compliance inspections.
- Performed and coached performance of weekly behavior-based safety walks targeted at workplace hazard recognition and mitigation.
- Performed site review of Engineered Lift Plans prior to authorization of critical crane lifts.

- Verified and validated operator qualification and certification, including DOT qualifications.
- Participated in annual corporate review and revision of company safety procedures.
- Coached RES craft in development of Work Instructions documenting agreed safe work practices.
- Developed and delivered Safety Induction/Orientation Safety Training for all new project employees.
- Created all project specific HSQE plans for assigned projects.
- Created LOTO Procedures & Confined Space Entry Protocols for recent projects.
- Managed HAZCOM program for all projects since 2010, including controlling project Chemical Inventory database, performing SDS Reviews, and coordinating implementation of controls for safe work.
- Assisted subcontractors with development of Risk Assessments, Method Statements, and Work Instructions.
- Managed and coordinated project material & equipment suppliers, third party inspection firms, cultural monitoring representatives, and site security.
- Produced weekly & monthly HSQE reports for project and corporate management tracking production, man hours, safety incidents, and incident trending (graphical and tabular data formats).

#### **SGS North America | 2008**

Hired as **QA/QC Inspector** to assist SGS in expanding their Inspection & Testing division from Oil & Gas to include Wind Energy.

##### *Responsibilities*

- Developed general mechanical completion inspection & commissioning inspection protocols for wind turbines as well as specific protocols for various turbine manufacturers.

**POSITION:**

RSTG Operations Manager

**YEARS OF EXPERIENCE:** 23**YEARS EMPLOYED BY FIRM:** 8**EDUCATION:**Associates Degree - Welding  
TechnologyCommercial Diving Certification from  
Divers Institute of Technology**PROFESSIONAL CERTIFICATIONS  
AND AFFILIATIONS:**

OSHA 8-hour Refresher

CPR/AED &amp; First Aid Training

Oxygen Administration Training

Lockout/Tag out Training

ADC Mixed Gas Diving Supervisor

ADC Air and Mixed Gas Diver

**JEFF NEWLIN**

Jeff Newlin's experience in marine construction and commercial diving includes twelve years of refined skill with a specialized environmental focus, in addition to expertise within the following disciplines: subsurface marine construction; dredging; engineering design; emergency response efforts; hydrographic survey; bathymetric data collection and project supervision. Jeff approaches the management and supervision of his team members with an unbending pledge to safety, and proper planning given to highly challenging environments. Collective and open communication with his crew establish the foundation for Jeff's work ethic, yielding ownership of ideas, empowerment, and skillful execution of the task at hand. Jeff has both led - and performed - diving operations that have produced innovative technical solutions due to adaptability, and quick and efficient decision-making.

**Relevant Experience****Multibeam Dredge Payment survey near Gentry, AR | \$30K | American Electric Power | 2021 - Present**

Project manager and Senior Hydrographer responsible for producing survey plans, time estimates, water level files, establishing system acceptance test and patch test procedures and results, directing survey operations, applying correctors to data, data analysis and processing, and producing the final smooth sheets. This project is ongoing into 2022 with multiple repeat surveys.

**Pipeline Stability Inspection at the FPL martin Plant near Okeechobee, FL | \$250k | Florida Power and Light | 2021**

Project manager who oversaw Remotely Operated Vehicle (ROV) survey operations in thirty-six-inch to 114-inch pipelines. The project presented an extremely challenging set of conditions in which to perform the inspections, requiring the use of several different ROV systems due to pipe access and diameter, number of bends or turns in the pipes and distance of the pipelines. In all over 9,000 linear feet of pipe were inspected utilizing various combinations of scanning sonars, doppler velocity loggers, inertial navigation systems and 4K definition cameras. Repeat inspections were performed immediately after the initial inspection and successfully proved repeatability for future inspections in this system.

**Pipeline Survey and Repair in the Straits of Mackinac, MI | \$15M | Lakehead Pipeline/Enbridge Energy | 2021**

Project Manager who oversaw diving and ROV survey operations in depths of up to 250 feet. Jeff also performed diving in support of hydrographic operations which included multibeam, side-scan, sub-bottom profiling, sector scan, and Doppler velocity measurement sonar systems. Under his watch, over 200 custom diver-assisted pipeline repairs were successfully executed - on air, mixed gas, and in saturation; these diving operations employed composite wrap, which was specially engineered for this project. The project site presented an extremely challenging environment in which to work - requiring the use of a fast-recovery two-point mooring system, and continuous monitoring of subsurface current and topside weather conditions.

**Coastal Pipeline Survey, CA | \$300k | Hyperion Water Reclamation Plant | 2020-2022**

Project Manager overseeing ROV survey operations in depths of up to 200 feet. The project site presented an extremely challenging environment in which to work - requiring the use

live boating operations in surf zones, and continuous monitoring of subsurface current and topside weather conditions.

**Coastal Pipeline Survey, CA | \$100k | Hyperion Water Reclamation Plant | 2019**

Dive Superintendent and Assistant Project Manager who oversaw ROV survey operations in depths of up to 200 feet. The project site presented an extremely challenging environment in which to work - requiring the use live boating operations in surf zones, and continuous monitoring of subsurface current and topside weather conditions.

**Pipeline Survey and Repair in the Straits of Mackinac, MI | \$15M | Lakehead Pipeline/Enbridge Energy | 2017-2020**

Dive Superintendent and Assistant Project Manager who oversaw diving and ROV survey operations in depths of up to 250 feet. Jeff also performed diving in support of hydrographic operations which included multibeam, side-scan, sub-bottom profiling, sector scan, and Doppler velocity measurement sonar systems. Under his watch, over 200 custom diver-assisted pipeline repairs were successfully executed - on both air and mixed gas; these diving operations employed composite wrap, which was specially engineered for this project. The project site presented an extremely challenging environment in which to work - requiring the use of a fast-recovery two-point mooring system, and continuous monitoring of subsurface current and topside weather conditions.

**Savannah Harbour Expansion Project Oxygenation Plant, GA | \$5.5M | Georgia Port Authority | 2019**

Superintendent, Diver, and hydrographic survey for installing thirty-inch SS outfall for the USACE Savannah Harbour Expansion Project Oxygenation Plant. Jeff was responsible for dive crews, cranes and excavators used to install the outfall pipe and diffusers across 400 feet of wetland and into the back river. To accomplish this, work a 480-foot trestle was constructed to handle a 100-ton crane and excavators which drove sheet pile shoring, then trenched, installed helical support piles, and backfilled the outfall.

**Pipeline Survey and inspection, ND | \$2M | Hess Corporation | 2017**

Project Superintendent who oversaw ROV and AUV survey operations beneath the ice. These operations included multibeam, side-scan, sub-bottom profiling, sector scan, and land survey techniques in harsh winter conditions. This project employed an un-tethered AUV deployed beneath the ice to survey a two-mile pipeline crossing.

**Borman Park Intake Crib Installation, IN | \$5.2M | Indiana American Water | 10/2015 - 09/2016**

Dive Supervisor for the replacement and repair of an active raw-water lake intake crib, performed in two phases. Phase 1 entailed investigation efforts, partial demolition work and cleaning operations for the horizontal conveyance tunnel. Phase 2 involved continued cleaning of the conveyance tunnel, as well as installation of the precast crib structure and three-inch HDPE chemical transport lines through the conveyance tunnel and vertical intake shafts.

Diving operations for this project reached depths of almost 200 feet - and were mixed gas - requiring a highly skilled and experienced dive team. Under Jeff's supervision, dive crew members executed this operation without a recordable safety incident, accelerated the schedule, and delivered and installed a product that was superior to the initial design solution.

**Settled Water Conduit Leak Repair, OH | \$400,000 | City of Toledo | 06/2015 - 11/2015**

Dive Supervisor who oversaw the repair of joints in precast concrete conduit sections, in an active finished-water system. Logistical challenges included access and preparation, as the active-water system entry point was 500 feet from the repair location, and compromised conduit had to be prepped and cleaned prior to the execution of repairs. Additional challenges included handling NSF-61 approved material for potable water, as it was continuous in length: some sections extending thirty feet long. The handling of this material required a three-man dive crew, requiring tracking during installation to prevent damage. Under Jeff's supervision, dive crew members discovered additional leaking while conducting planned repairs, leading to added project scope. Additionally, Jeff's dive team maintained - or reduced - turbidity and bacterial levels while performing repair in the wet, all while in an active system.

**Highland Park, OH | \$110,000 | JJ Henderson | 2014**

Dive Supervisor who oversaw the installation and removal of a steel bulkhead. This project scope was executed with the safe and successful installation - and removal - of a steel bulkhead, diver-assisted dredging of the clear well, concrete coring, concrete core hole repair, concrete crack inspection and mapping. All work was performed on time, and with critical attention given to both safety and quality.

**Pipeline Survey and Stabilization in the Straits of Mackinac, MI | \$3.3M | Lakehead Pipeline/Enbridge Energy | 2014**

Assistant Dive Supervisor who oversaw the diving and ROV survey operations in depths of up to 265 feet. Jeff also performed diving in support of hydrographic operations which included multibeam, side-scan, sub-bottom profiling, sector scan, and Doppler velocity measurement sonar systems. Under his watch, over 100 custom diver-assisted pipeline installations were successfully executed - on both air and mixed gas; these diving operations employed a helical screw anchor device, which was specially engineered and fabricated in-house. The project site presented an extremely challenging environment in which to work - requiring the use of a fast-recovery two-point mooring system, and continuous monitoring of subsurface current and topside weather conditions.

**Wolf Creek Nuclear Discharge Pipeline Installation, AR | \$9.8M | U.S. Army Corps of Engineers | 2013 -2014**

Night Shift Superintendent/Assistant QC/Assistant Hydrographic Surveyor for the installation of a new discharge structure for a nuclear power plant. Jeff assisted in the oversight of the day-to-day diving and pipeline installation operations, which included concrete placement, and final pipeline location and placement. Even under an extremely

challenging and aggressive schedule and several design changes, Jeff's team successfully executed this scope of work on time, and without incident.

**Lake Water Intake Inspection/Cleaning, IL | \$300,000 | AbbieVie, Inc. | 2009 - 2014**

Dive Supervisor for diving operations beginning in 2010 and continuing annually through 2014. Primary duties included day-to-day management of the dive crew and vessels. This work was performed in support of yearly maintenance to ensure proper water flow and zebra mussel control. Tasks included: work involving offshore vessel operations; penetration diving to perform inspections to 1,400 linear feet; dredging to remove sediment and debris; chemical feed line repairs and testing; support bracing repair; and underwater video operations.

**David D. Terry Lock and Dam, AR | U.S. Army Corps of Engineers | 2010**

Starting in the fall of 2010 and continuing to winter of 2010, Jeff worked as a Diver completing inspection and performing repairs to the dam's piers. In addition, performing repairs, he assisted in taking core samples of the dam.

**ARP Project Idaho National Laboratory, ID | Department of Energy | 2004**

Jeff worked as an Ironworker/Superintendent in support of the erection and maintenance of containment structures for pits four, seven, and eight. These pits contained elevated levels of radioactive waste. During this project, Jeff also worked as a contamination worker in support of the removal of several large reactor sections from the SL1 disaster.

**WTP Project, WA | Department of Energy | 2002**

Jeff worked as an ironworker assisting in the construction of a radioactive waste vitrification plant. This project included steel erection, tower crane assembly, rebar forming and installation.

**Pit 9 GEM Project Idaho National Laboratory, ID | Department of Energy | 1998**

Jeff worked as an ironworker in support of the erection and maintenance of a containment structure for the removal of transuranic waste. This project was intended to improve the soil and ground water quality around the site.

**POSITION:**

Superintendent / Dive Supervisor/  
Estimator

**YEARS OF EXPERIENCE:** 25

**YEARS EMPLOYED BY FIRM:** 5

**EDUCATION:**

Commercial Diving Certificate –  
Divers Institute of Technology

**PROFESSIONAL CERTIFICATIONS  
AND AFFILIATIONS:**

ADC Air Diving Supervisor

ADC Nitrox Endorsement

ADC Mixed Gas Diver

ADC Diver

OSHA 40

OSHA 30

OSHA 10

OSHA 8 Hour Refresher

USACE QA/QC

First Aid / CPR / AED

Oxygen Administration

Confined Space Entry

Lock out / Tag out

Safe Rigger Training

Fork Lift Operator

Certified Boat Operator (NJ)

NDT Level 1 Ultrasonic  
Mag Particle

**JEFF SPOERL**

Jeff has been in the marine construction and commercial diving industry for 25 years and has worked on many different projects and in many different locations throughout the country. These experiences have provided him with a wealth of knowledge and has proven beneficial for both his employers and the clients they have worked for. His commitment to Ballard Marine Construction and his coworkers is only rivaled by his passion for his family. A few highlights include diving in the city of New Orleans after hurricane Katrina and providing safety support as the Project Safety Officer for AshBritt during Superstorm Sandy clean-up (including the hiring of Heritage Environmental to collect, transport and dispose of household hazardous waste throughout the affected area). Prior to attending dive school in Seattle, WA, he served in the United States Navy as a Surface Rescue Swimmer.

**Relevant Experience****Intake Cleaning, North Chicago, IL | Abbvie | \$300,000 | 2022**

Superintendent/Dive Supervisor – As such I was tasked with coordinating with client for LOTO to provide safe conditions for the divers, heading up a crew of 8 team members to accomplish the cleaning of 4 intake cribs, 2 intake pipes (300ft of each), 2 intake wet wells, 2 traveling water screens, produce daily reports (including safety documents, time ticket, quality control, equipment, daily construction logs) and report production.

**Raw Water Tunnel Rehab, Detroit, MI | GLWA | \$9M | 2020-2022**

Superintendent – Responsibilities included providing safe work conditions for the team, setting up the project including dive gear, rental equipment, spares, services and crewing the project as well as coordination with Union representatives, coordination with client for LOTO to provide safe conditions for the divers, oversight of shaft drilling sub and other services. Project included mockup of designed repairs, long distance dive penetrations, drilling through top of tunnel and making connections, installation of tunnel liner. Due to water demands, this project is required to be performed at night and during the winter months which increases the safety risk for all crew members.

**Milk River, St. Clair Shores, MI | Spence Brothers | \$750,000 | 2020**

Dive Supervisor – which involved leading a five man crew in a very public setting, ensuring the safety of all individuals, tracking progress, producing daily paperwork, client relations and general support with project ideas and resolve when altering conditions existed. Project included cleaning and repairing 2500ft of intake pipe from Lake St.Clair to the pump house, design and installation of chemical feed line clamps and installation of new chemical feed line, intake grating and repair bands. Obstacles overcome included removal of a tree root ball, working with repair bands that we had not previously had experience with, removal of sediment and hazardous debris, providing power to pumps at long distances, diver penetration using multiple accesses due to 45\* bends and settling structures within the run of the pipe, safely conducting the operation amidst the public accessible site while providing a safe environment for the public.

**Pulliam Power Plant Demo, Green Bay, WI | Brandenburg Industrial Services | \$180,000 | 2019**

Dive Supervisor/Assistant Superintendent – Led a crew of four to safely perform the tasks below as well as coordination with the client, attending weekly progress meetings, scheduling services and acquisition of tools and materials. Project included fabricating bulkheads, clearing placement areas, installing bulkheads and sealing bulkheads. Obstacles

overcame included tight work areas, below freezing temperatures, limited support and scheduling.

**Wausau Hydro, Wausau, WI | Lunda Construction | \$750,000 | 2019**

Superintendent/Dive Supervisor – Led a crew of six to safe job completion, attended daily and weekly progress meetings, worked with client and owners engineer to provide solutions to differing conditions than expected. Project included cutting stone and concrete, removal of debris and surface preparation on the upstream side of a dam to accept the installation of a new bulkhead guide system which would allow the contractor to rehab the dam gates in a dry environment. Obstacles included planning and execution of two crews working different areas simultaneously, differing conditions than depicted in the project documents, assisting the contractor with solutions to resolve the differing conditions that would be both cost effective and able to execute in a timely manner.

**GLWA-DB 150, Detroit, MI | GLWA | \$8M | 2018**

Dive Supervisor/Assistant Superintendent – Led a crew of nine to safely perform the tasks below as well as coordination of LOTO with owner, oversee day and night shift activities. Project included the inspection of three tunnel sections by way of penetrating up to 2700+ft from a single access point and providing/presenting a report of findings to the owner. Obstacles overcome included high flow of water within the tunnel sections, freezing cold water, long distance penetrations, providing power to tools required at the worksite, overnight work hours, large air gaps from surface to water, tight work areas and providing a safe environment for both the public and the workers.

**Morton Salt Sea Wall Replacement, Chicago, IL | CSM | \$1.1M | 2017-2018**

Superintendent – ensured safe work environment for multiple crews, liaison to client and owner of project, produced daily paperwork, worked with subs and rental companies and other project management duties. Project included removal of collapsed wall and debris from the river as well as the installation of new sheet pile dock wall with bumper system. Obstacles overcome included river conditions, marine traffic, cutting of collapsed wall, prevention of further land loss, coordination with owner to allow both of our operations to be completed simultaneously, extreme freezing conditions and constantly changing crew.

**Hutsonville Power Plant Demo, Hutsonville, IL | Brandenburg | \$1M | 2015**

Estimator/Project Manager/Dive Supervisor – As such, I met with the client to discuss work scope to provide an estimate for our services, reviewed the contract for owner approval, procured equipment and team members to complete the project, made adjustments as project scope changed, led a crew of five to safe job completion, produced billing statements and made weekly reports to the client and the owner. Project included penetrating tunnels to remove over 1000CY of mud and debris, removal of traveling screen units, fabrication and installation of bulkheads to seal off the tunnels to the river with a concrete tremie as well as the installation of a protection grating over the discharge to prevent the possibility of access from the river.

**DOW Chemical River Crossings, Midland, MI | Brandenburg | \$180,000 | 2015**

Estimator/Project Manager/Dive Supervisor – As such, I met with the client to discuss work scope to provide an estimate for our services, reviewed the contract for owner approval, procured equipment and team members to complete the project, made adjustments as project scope changed, led a crew of four to safe job completion, produced billing statements and made weekly reports to the client and the owner. Project included the removal of 2 – 60" river crossings, 250LF of sheet pile wall above the mudline and the capping of the four pipe ends where they met the riverbanks.

**Dresden Dam, Wilmington, IL | Russel Construction | \$100,000 | 2010**

Lead Diver/Alt Supervisor. Project included emergency scour repair of the downstream side of the dam which included placing guide beams and pouring over 10,000CY of concrete to form a new tailrace. The project had to be completed while the dam remained operational and within a 3" tolerance.

**Global Infrastructure | 2009-2017**

Estimator/ Project Manager / Dive Supervisor / Diver for various projects including:

- Annually performed 3000ft of penetration for Unilever plant in Hammond IN which included cleaning, inspection and report production.
- Bi-annual penetration cleaning inspection of the East Chicago Water Filtration intakes in Lake Michigan
- Multiple penetration inspections and cleaning of various intakes in Lake Michigan including but not limited to Cargill, Village of Northbrook, City of Evanston and more.
- Various cleaning, mechanical repair, concrete repair, inspections and the writing of reports

**Veolia ES, Inc | 1999-2009**

Dive Supervisor / Diver for a wide range of marine projects for a variety of utility companies, steel mills and municipalities throughout the Midwest. Work included, traveling water screen repairs / overhauls, pump inspections, waste removal, zebra muscle removal, dock repairs, penetration diving for pipeline inspections, general underwater construction, intake cribs, nuclear contamination diving, diver assisted dredging, great lakes diving, salvage diving, potable water inspections and maintenance.

**Scott Diving (Onyx Special Service, Inc.) | 1997-1999**

General industrial diving in Midwest areas. Same credentials as listed above in addition to nuclear plant work consisting of circulating water pump plug installations and condenser box inlet valve repairs.

**POSITION:**

RSTG Project Engineer

**YEARS OF EXPERIENCE:** 30**YEARS EMPLOYED BY FIRM:** 3**EDUCATION:**

Mechanical Engineer, Montana State University 2018

**PROFESSIONAL CERTIFICATIONS AND AFFILIATIONS**

Lockout Tagout

CPR/AED &amp; First Aid

Freon Handler

Cryogenic operator

NASA Test Director

High Pressure Boiler Operator

Hazmat Control Technician

**DAVE HOFFMAN**

Dave Hoffman's 30 years of experience working in heavy industrial environments includes eleven years as a nuclear operator for the Navy, a coal fire power plant manager, facility engineer, and four years Co-op intern for NASA. Dave graduated from Montana State University in 2018 with a bachelor's degree in Mechanical Engineering. His experience in marine construction and commercial diving includes three years of refined skill with expertise within the following disciplines: subsurface marine construction; dredging; engineering design; emergency response efforts; hydrographic survey; bathymetric data collection and ROV Operations. Dave is NASSCO Certified-PACP, MACP, LACP.

**Relevant Experience****ROV Tunnel Inspection and Monitoring, MI | \$50k | GLWA | 2020 & 2021**

Project Engineer who performed ROV survey operations at the Detroit GLWA Springwell's Raw water tunnel. ROV operations with inspection distances of 2000ft inside the tunnel. These ROV inspection included dual profiling sonars and high-definition cameras attached to the ROV to establish sediment depths and overall shape of the tunnels. Visual inspection of the tunnels to identify cracking before and after diver repairs. The sonar images were used to determine if there were any ovality issues or structural issues with the tunnels. ROV operations also monitored the coring of new access shafts into the system.

**Multibeam Dredge Payment Survey, Gentry, AR | \$30K | American Electric Power | 2021 - Present**

Part of Hydrographic team responsible for producing survey plans, time estimates, water level files, establishing system acceptance test and patch test procedures and results, applying correctors to data, data analysis and processing, and producing the final smooth sheets. This project is ongoing into 2022 with multiple repeat surveys.

**Pipeline Survey and Repair in the Straits of Mackinac, MI | \$15M | Lakehead Pipeline/Enbridge Energy | 2021**

ROV survey operations in depths of up to 250 feet. ROV support for over 200 custom diver-assisted pipeline repairs were successfully executed - on air, mixed gas, and in saturation; these diving operations employed composite wrap, which was specially engineered for this project. The project site presented an extremely challenging environment in which to work - requiring the use of a fast-recovery two-point mooring system, and continuous monitoring of subsurface current and topside weather conditions.

**Coastal Pipeline Survey, CA | \$300k | Hyperion Water Reclamation Plant | 2020-2022**

Project Engineer for ROV survey operations in depths of up to 200 feet. The project site presented an extremely challenging environment in which to work - requiring the use live boating operations in surf zones, and continuous monitoring of subsurface current and topside weather conditions.

**Coastal Pipeline Survey, CA | \$100k | Hyperion Water Reclamation Plant | 2019**

Dive Superintendent and Assistant Project Manager who oversaw ROV survey operations in depths of up to 200 feet. The project site presented an extremely challenging environment in which to work - requiring the use live boating operations in surf zones, and continuous monitoring of subsurface current and topside weather conditions.

**Pipeline Survey and Repair in the Straits of Mackinac, MI | \$15M | Lakehead Pipeline/Enbridge Energy | 2019-2020**

ROV survey operations in depths of up to 250 feet. ROV assistance on over 200 custom diver-assisted pipeline repairs were successfully executed - on both air and mixed gas; these diving operations employed composite wrap, which was specially engineered for this project. The project site presented an extremely challenging environment in which to work - requiring the use of a fast-recovery two-point mooring system, and continuous monitoring of subsurface current and topside weather conditions.

**Pathways Student, NASA Johnson | Jan 2015-current**

Propulsion And power division, Safety and Mission assurance, Mission control. Test director – design test systems for project support including drawings in Graphite and Creo, write test procedures, safety analysis and pressure system review. Cryogenic operator- certified for operation and handling of cryogenic fluids including liquid nitrogen and helium. Researched explosive safety and handling requirements at the federal, state and local level to update NASA explosive safety manual.

**Saint Vincent Hospital | Nov 2006 – Aug 2013**

Engineer II: Perform scheduled and unscheduled maintenance and projects relating to mechanical aspects of all building, utilities and clinical equipment. Maintained proficiency in operations, assembly, installation, replacement, preventative and corrective maintenance on the following systems and equipment: emergency power, control air, HVAC, chill water and medical gas, as well as facility plumbing and electrical fixtures, minor carpentry, and patient room and facility processing equipment.

**Steris | Nov 2002-2006**

Field Service Technician: Responsible for scheduling with customers for both corrective and preventive maintenance. Periodical installation and removal of customer purchased equipment. The equipment worked on included steam Generators and autoclaves, hydraulic lift surgical tables, and electronic surgical lights.

**Silgan Containers | Feb 2002 – Apr 2002**

Management Trainee: Responsible for learning all aspects of the can manufacturing. The various aspects include hydraulic press operations and repair, statistical quality control, employee relations and written reports.

**Dayton Power and Light | July 2001- Nov 2001**

Operations Supervisor: Responsible for supervising 4 Control room operators and 8 auxiliary operators during unit startups, shut downs and normal operating conditions. Also coordinated maintenance operations to ensure that safe, reliable operations are maintained with a minimum amount of down time due to outages. Ensured plant conditions were met prior to performing test including turbine over speed checks.

**U.S. Navy | July 1990- Sep 2001**

Served as the Depot Maintenance Coordinator and assistant Contracts Coordinator Liaison between different organizations to establish timelines for efficient and on time completion of major Submarines depot level maintenance. Staff Instructor Engineering Watch Supervisor: Provide continuous supervision for ten staff and eleven students including mechanics, electricians, and electronic technicians for the safe and efficient operation of a nuclear power plant. Wrote procedures and performed Quality Assurance and Sub Safe inspections. Performed Hazardous material handling and safety including inspections and record keeping. Planed and supervised preventative and corrective maintenance actions of propulsion plant associated systems.

**POSITION:**

Sr. Field Engineer/Cost Engineer

**YEARS OF EXPERIENCE:** 4**YEARS EMPLOYED BY FIRM:** 3**EDUCATION:**Oregon State University –  
Mechanical Engineering**PROFESSIONAL CERTIFICATIONS  
AND AFFILIATIONS:**

First Aid/CPR &amp; AED

EM-385-1-1 16-hour Online Training

**CALEB STANLEY**

Caleb Stanley's professional experience in marine construction covers four years and includes a strong focus on engineering services and technical understanding. Caleb's primary areas of expertise include engineering, technical investigation, project document control; cost accounting and tracking; hydrographic survey; and environmental protection. Caleb approaches his work with attention to quality and compliance, he is willing to go the extra mile for his team.

Caleb's work ethic is founded on communication, technical understanding, and the ability to make educated decisions in a fast-paced environment.

**Relevant Experience****Raw Water Tunnel Rehab, Detroit, MI | \$94M | Ballard Marine Construction | Great Lakes Water Authority | 2020 - Current**

Project Engineer and Cost Engineer for the rehabilitation of the three separate tunnels for Detroit's main raw water distribution network. Maintained document control, cost accounting and safety in the strict environment of a United States Naval base. Performed extensive cost analysis and control during and post-project. Assisted in writing post-project reports and maintained communication between the Prime Contractor and Government employees through his work on the project.

The tunnel diameters were fourteen, twelve, and ten feet, with depths ranging from eighty to 100 feet. All three tunnel repair sections required access into the system through (Ballard) installed vertical down shafts with diameters ranging from six feet to nine feet. The repair options included were non-structural and structural repairs inside the tunnel system while the plants remaining in operations, requiring divers to work in light to moderate flow. The project allowed for ECI between the client and marine contractor to change from a traditional Design/Bid/Built to a Design-Build project which included early mentoring to the client on recommend design-build practices. Project included: NITROX mixed gas diving, long underwater diver and ROV inspection, underwater burning, underwater grout placement, dredging to remove sediment and debris, structural steel work, underwater drilling and anchoring, critical crane lifts, underwater heavy rigging and transport of materials, underwater mechanical assembly, underwater video operations.

**Dive Calculator & Profiler Optimizer | Ballard Marine Construction | 2019 – Current**

Caleb developed a one-of-a-kind dive calculator, which implements Naval dive tables in an easy-to-use system. Saw the need and created this tool with no prior knowledge to diving operations and intricacies. Utilized veteran dive team members to assist in confirming the validity of this calculator and presented to the company for widespread usage.

**Saltwater Distribution System Replacement, Puget Sound Naval Shipyard and Industrial Maintenance Facility, WA | \$2.7M | Ballard Marine Construction | NOVA Group | 2019 – 2020**

Project Engineer for the replacement of the saltwater distribution pipeline for Dry Docks 1 through 5 including the dredging and demolition of existing twenty-inch diameter pipe, followed by the placement, testing and backfill of a new pipeline at each dry dock location. Maintained document control, cost accounting and safety in the strict environment of a United States Naval base. Performed extensive cost analysis and control during and post-

project. Assisted in writing post-project reports and maintained communication between the Prime Contractor and Government employees through his work on the project.

**Oil and Gas Pipeline Network Inspections | DoC Mapping | 2018 – 2019**

Assistant Project Manager and Lead Surveyor in performing depth of cover surveys on a large network of Enbridge natural gas and liquid pipelines across the U.S. Caleb began with the firm as a Field Hand but quickly achieved the role of On-Site Project Manager and Lead Surveyor because of his technical skills, work ethic and ambition. Caleb has experienced mapping these pipelines in a wide variety of geological conditions including mountainous terrain, mixed terrain, swift rivers, lakes, and rocky bottoms as well as unique environments including shipping channels, reservoirs and difficult to access locations. Caleb managed his team during this time with the responsibility of overseeing all aspects of the project including, but not limited to; hydrographic survey operations specifically including multi-beam; side scan, project planning and management, and data post-processing resulting in high-quality visual renderings. Caleb's team completed depth of cover surveys spanning across the U.S. over 1,500 miles. In each campaign, Caleb's primary responsibilities included cost tracking and personnel management, project planning and engineering support. In addition, Caleb assisted in jumpstarting the firm's pipeline remediation program which included detecting at-risk pipelines underwater and determining the best routes for remediation and pipeline stabilization.

**POSITION:**  
Field Engineer

**YEARS OF EXPERIENCE:** 2

**YEARS EMPLOYED BY FIRM:** 1

**EDUCATION:**  
Construction Engineering  
Technology & Management,  
Lawrence Technological University,  
2021

## **AUSTIN ROHRBACK**

Goal-driven field engineer with experience in heavy civil and tunneling projects.

### **Relevant Experience**

**DB-150 Repair for Portions of the Pennsylvania, Northeast & Springwells Raw Water Tunnels, Detroit, MI | Great Lakes Water Authority | \$65,000,000 | 2021-Present**

Role: Field Engineer,

Responsibilities –

- Analyze reports, drawings, plans, and specifications
- Plan and schedule upcoming work
- Develop and write work plans
- Quality control representative to ensure conformance to design specification
- Manage and coordinate with subcontractor
- Manage procurement of materials
- Complete daily project reports and documentation

Project Description: Rehabilitating live raw water intake tunnels with stainless steel rings for Great Lakes Water Authority. The work is performed with divers during low flow conditions.

# Appendix B

## Forms





**Vendor Conflict of Interest Disclosure Form**

All vendors interested in conducting business with the City of Ann Arbor must complete and return the Vendor Conflict of Interest Disclosure Form in order to be eligible to be awarded a contract. Please note that all vendors are subject to comply with the City of Ann Arbor's conflict of interest policies as stated within the certification section below.

If a vendor has a relationship with a City of Ann Arbor official or employee, an immediate family member of a City of Ann Arbor official or employee, the vendor shall disclose the information required below.

1. No City official or employee or City employee's immediate family member has an ownership interest in vendor's company or is deriving personal financial gain from this contract.
2. No retired or separated City official or employee who has been retired or separated from the City for less than one (1) year has an ownership interest in vendor's Company.
3. No City employee is contemporaneously employed or prospectively to be employed with the vendor.
4. Vendor hereby declares it has not and will not provide gifts or hospitality of any dollar value or any other gratuities to any City employee or elected official to obtain or maintain a contract.
5. Please note any exceptions below:

<b>Conflict of Interest Disclosure*</b>	
Name of City of Ann Arbor employees, elected officials or immediate family members with whom there may be a potential conflict of interest.	<input type="checkbox"/> Relationship to employee <hr/> <input type="checkbox"/> Interest in vendor's company <input type="checkbox"/> Other (please describe in box below)
N/A	

\*Disclosing a potential conflict of interest does not disqualify vendors. In the event vendors do not disclose potential conflicts of interest and they are detected by the City, vendor will be exempt from doing business with the City.

<b>I certify that this Conflict of Interest Disclosure has been examined by me and that its contents are true and correct to my knowledge and belief and I have the authority to so certify on behalf of the Vendor by my signature below:</b>		
Ballard Marine Construction, LLC	360.844.6864	
Vendor Name	Vendor Phone Number	
	6/2/2022	Jayme Newbigging, VP Maj Project
Signature of Vendor Authorized Representative	Date	Printed Name of Vendor Authorized Representative

Questions about this form? Contact Procurement Office City of Ann Arbor Phone: 734/794-6500, [procurement@a2gov.org](mailto:procurement@a2gov.org)

**CITY OF ANN ARBOR  
LIVING WAGE ORDINANCE DECLARATION OF COMPLIANCE**

The Ann Arbor Living Wage Ordinance (Section 1:811-1:821 of Chapter 23 of Title I of the Code) requires that an employer who is (a) a contractor providing services to or for the City for a value greater than \$10,000 for any twelve-month contract term, or (b) a recipient of federal, state, or local grant funding administered by the City for a value greater than \$10,000, or (c) a recipient of financial assistance awarded by the City for a value greater than \$10,000, shall pay its employees a prescribed minimum level of compensation (i.e., Living Wage) for the time those employees perform work on the contract or in connection with the grant or financial assistance. The Living Wage must be paid to these employees for the length of the contract/program.

*Companies employing fewer than 5 persons and non-profits employing fewer than 10 persons are exempt from compliance with the Living Wage Ordinance. If this exemption applies to your company/non-profit agency please check here  No. of employees\_\_*

The Contractor or Grantee agrees:

- (a) To pay each of its employees whose wage level is not required to comply with federal, state or local prevailing wage law, for work covered or funded by a contract with or grant from the City, no less than the Living Wage. The current Living Wage is defined as \$14.82/hour for those employers that provide employee health care (as defined in the Ordinance at Section 1:815 Sec. 1 (a)), or no less than \$16.52/hour for those employers that do not provide health care. The Contractor or Grantor understands that the Living Wage is adjusted and established annually on April 30 in accordance with the Ordinance and covered employers shall be required to pay the adjusted amount thereafter to be in compliance with Section 1:815(3).

**Check the applicable box below which applies to your workforce**

- Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage without health benefits
- Employees who are assigned to any covered City contract/grant will be paid at or above the applicable living wage with health benefits

- (b) To post a notice approved by the City regarding the applicability of the Living Wage Ordinance in every work place or other location in which employees or other persons contracting for employment are working.
- (c) To provide to the City payroll records or other documentation within ten (10) business days from the receipt of a request by the City.
- (d) To permit access to work sites to City representatives for the purposes of monitoring compliance, and investigating complaints or non-compliance.
- (e) To take no action that would reduce the compensation, wages, fringe benefits, or leave available to any employee covered by the Living Wage Ordinance or any person contracted for employment and covered by the Living Wage Ordinance in order to pay the living wage required by the Living Wage Ordinance.

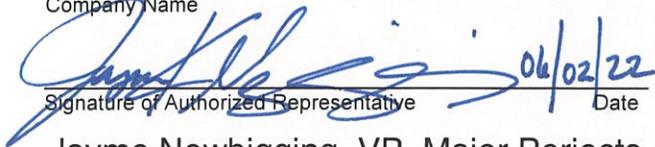
The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services or agrees to accept financial assistance in accordance with the terms of the Living Wage Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Living Wage Ordinance, obligates the Employer/Grantee to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract or grant of financial assistance.

**Ballard Marine Construction, LLC**

Company Name

**727 S 27th Street**

Street Address

 06/02/22

Signature of Authorized Representative

Date

**Washougal, WA 98671**

City, State, Zip

**Jayme Newbigging, VP, Major Projects**

Print Name and Title

360.844.6864, jayme.newbigging@ballardmc.com

Phone/Email address

**CITY OF ANN ARBOR  
DECLARATION OF COMPLIANCE**

Non-Discrimination Ordinance

The "non discrimination by city contractors" provision of the City of Ann Arbor Non-Discrimination Ordinance (Ann Arbor City Code Chapter 112, Section 9:158) requires all contractors proposing to do business with the City to treat employees in a manner which provides equal employment opportunity and does not discriminate against any of their employees, any City employee working with them, or any applicant for employment on the basis of actual or perceived age, arrest record, color, disability, educational association, familial status, family responsibilities, gender expression, gender identity, genetic information, height, HIV status, marital status, national origin, political beliefs, race, religion, sex, sexual orientation, source of income, veteran status, victim of domestic violence or stalking, or weight. It also requires that the contractors include a similar provision in all subcontracts that they execute for City work or programs.

In addition the City Non-Discrimination Ordinance requires that all contractors proposing to do business with the City of Ann Arbor must satisfy the contract compliance administrative policy adopted by the City Administrator. A copy of that policy may be obtained from the Purchasing Manager

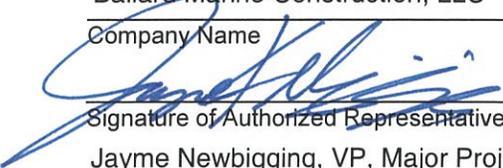
The Contractor agrees:

- (a) To comply with the terms of the City of Ann Arbor's Non-Discrimination Ordinance and contract compliance administrative policy, including but not limited to an acceptable affirmative action program if applicable.
- (b) To post the City of Ann Arbor's Non-Discrimination Ordinance Notice in every work place or other location in which employees or other persons are contracted to provide services under a contract with the City.
- (c) To provide documentation within the specified time frame in connection with any workforce verification, compliance review or complaint investigation.
- (d) To permit access to employees and work sites to City representatives for the purposes of monitoring compliance, or investigating complaints of non-compliance.

The undersigned states that he/she has the requisite authority to act on behalf of his/her employer in these matters and has offered to provide the services in accordance with the terms of the Ann Arbor Non-Discrimination Ordinance. The undersigned certifies that he/she has read and is familiar with the terms of the Non-Discrimination Ordinance, obligates the Contractor to those terms and acknowledges that if his/her employer is found to be in violation of Ordinance it may be subject to civil penalties and termination of the awarded contract.

Ballard Marine Construction, LLC

\_\_\_\_\_  
Company Name

  
\_\_\_\_\_  
Signature of Authorized Representative

06/02/22  
\_\_\_\_\_  
Date

Jayme Newbigging, VP, Major Projects

\_\_\_\_\_  
Print Name and Title

727 S 27th Street Washougal, WA 98671

\_\_\_\_\_  
Address, City, State, Zip

360.844.6864 / jayme.newbigging@ballardmc.com

\_\_\_\_\_  
Phone/Email Address

**Questions about the Notice or the City Administrative Policy, Please contact:**  
Procurement Office of the City of Ann Arbor  
(734) 794-6500