

TEAM EJP PEPtalk

BLAST FROM THE PAST - A LOOK INTO EJP'S ARCHIVES

10/26/1996

LEWISTON, AUBURN, BUILD JOINT LAKE INTAKE

The cities of Lewiston and Auburn, ME, will be assured of a reliable high-quality drinking water source as the result of a joint effort to install a longer, deeper, raw water intake in Lake Auburn.

Contractor American Inland Marine, Inc. of Columbus, OH, is laying 1,200 feet of 36" to 48" inch high density polyethylene pipe (HDPE) on the bottom of Lake Auburn as the principal water supply for the residents of the twin cities.

"This is the latest example of how our two cities are saving money by cooperating on a project," said Normand Lamie, former general manager of Auburn Water District. Lamie and Chris Crovo, former superintendent of the Water Division of the Lewiston Department of Public Works, are heading up the project. Their agencies supply water for 22,000 Auburn residents and 40,000 Lewiston residents.

At the Lake Auburn site, the contractor is employing an EJP supplied MegaMc fusion machine to join the lengths together. The fusion machine trims the ends of the pipe lengths with a "facer" attachment that guarantees a smooth interface. Then the machine "welds" the pipe lengths by heating the ends of the sections to be joined and pressing them together.

Crews were beginning to remove and dispose of the old Auburn intake, preparing the way for the new 48" line that will guarantee both cities a pure, turbidity-free water supply for many years to come. ■



Overseeing the project are Chris Crovo, former Lewiston DPW Water Div. and Norm Lamie, formerly of the Auburn Water Dept.



Former American Inland Marine's, Case Drott, holds Plexco HDPE pipe as EJP's Robbi Lockhart and retired EJP manager, Rod Dubois, prepare MegaMc machine that is welding pipe for Lake Auburn, ME, intake installation.



LIVING SHORELINES AND THE FUTURE OF COASTAL MANAGEMENT



Coastal properties everywhere are facing serious challenges related to rising seas and existing infrastructure. Property owners everywhere are looking for ways to protect their property from the erosive power of wave action and ever rising tides.

While coastal protection has been an issue for centuries, the solutions toolbox has grown significantly in recent years. Hard armor solutions, such as rock revetment and concrete seawalls, have been traditionally used throughout the industrial era. Such systems provide both advantages and disadvantages. While rock lining does provide armoring and protection, it can also remove or impede access to the shoreline. Additionally, rock lining selected stretches of shoreline can have a negative impact, as wave energy can be diverted to unprotected adjacent property.

More recently, living shorelines model has gained strong momentum. Living shorelines, in many ways, model how the Dutch have responded to coastal protection for many centuries. The traditional dikes built in The Netherlands have been flexible structures, employing a combination of earth and living and dead plant materials. Living shorelines provide a much more aesthetically pleasing solution than hard structures and can be designed to replicate historic shoreline profiles.

Team EJP. has been delivering coastal erosion control workshops up and down the New England coast for 13 straight years now. During this brief period, many states have significantly expanded their coastal protection toolboxes. As an example, Team EJP hosted a living shorelines forum at its Gardiner, Maine training facility in June of 2019. The forum came because of the Maine Department of Environmental Protection's stated commitment to examine more innovative coastal shoreline solutions for future permitting. At the same time, the agency developed plans for three living demonstration projects along the Maine coast. Two of the projects are in Brunswick, with the third in Yarmouth. Those projects got under way in the spring of 2020. Among the solutions employed were coconut fiber shell bags, log revetment and flexible marine gabions, also filled with clam shells. For these projects, Team EJP was involved in material procurement and onsite consultation assistance both before and during construction.

Looking to the future, education and sound planning will be critical as the world faces the serious challenges posed by climate change and rising seas. ■



TEAM EJP WEBINARS – RIDING THE WAVE OF CHANGE



With the onset of Covid-19, many aspects of normal business became uncertain. Events were being cancelled, people were being sent home, and traveling representatives were being taken off the road. At Team EJP, we recognized it was imperative to do everything possible to help with the transition to a “new normal.” That is when Team EJP came together to implement a new series of webinars to help our partner professionals receive the ongoing training they needed.

Now, every Friday at 12:00pm (EST), Team EJP offers free, highly informative webinars that focus on innovations in

the water industry, and important topics including: the world’s drinking water, wastewater and stormwater, and more. Those participating receive certificates for one Professional Development Hour (PDH) per webinar.

Because these webinars have proven to be such a success, Team EJP will be expanding these offerings as we look to the future. For more information on upcoming webinars and to register, please visit our website at www.ejprescott.com.

We look forward to your continued participation! ■





NEW HYDRO GENERATOR FOR THE GLEN HOUSE HOTEL IN GREENS GRANT, NH



While planning the construction of the fifth edition of the Glen House in 2017, the owners made the decision to build the hotel at max sustainability. By being comfortable with a longer return on investment, owners felt comfortable using many new techniques. A geothermal system to heat and cool the entire building, LED lighting from the parking lot to the smallest decorative lights, variable frequency drive pumps, Otis ReGen elevators, water cooled walk-in refrigerator, freezer and beer cooler and many other green ideas are in place. To fully take advantage of the historic water works and secure the water delivery system, plans were developed to enclose the remaining pieces of open waterway. This would allow for a safer, more efficient water source for the current uses of this water plus a new hydro generator for the hotel. The expertise of Team EJP was engaged to advise on and supply 2,240 feet of 10" DR11 HDPE pipe, fittings and fusion equipment.

When the new Canyon hydro turbine and generator came online in February 2020, several systems were made possible or improved. This historic waterway now supplies a total of 30KW of hydro power, provides fire safety for the day lodge and hotel, is used for snow making and provides water under natural pressure for landscape irrigation. ■

Greens Grant, NH – The social history of this property, *The Glen*, dates to the mid-1800s when the first Glen House hotel was opened followed shortly by the Mt. Washington Carriage Road. Although now surrounded by White Mountain National Forest, the Carriage Road (now Auto Road) and the Glen Houses were all private businesses and for the last 117 years have remained in the same family. As with most of the grand hotels of those eras, all four of the various Glen Houses have succumbed to fire from different origins over the years. In the late 1800s, when the second Glen House was built, a system of water works was installed for domestic water as well as hydro generated energy for the hotel. This water works remains intact and in operation to this day, although modernized over time to remain useful and efficient. In 2013 the last of the wooden penstock was replaced with plastic pipe.





IMPACTED BY LEAD LEGISLATION? THE SERVICE LINE PULLER KIT CAN HELP!



With 16 states adding lead laws to their state's drinking water laws and countless more states working on legislation to protect their constituents, having intelligent solutions to cut the cost of lead supply line replacement is more important for water utilities than ever before. This has been brought about due to the severity of the Flint water crisis and the strong impact it has had on public health in that Michigan city. The states which have passed lead laws include:

- Illinois, which is estimated to have from 415,000 to 1.92 million lead pipes spread across 1,299 municipalities.
- New York, which is estimated to have 360,000 lead pipes spread across 932 municipalities.

- Massachusetts, which is estimated to have 220,000 lead pipes spread across 351 municipalities.

How the Service Line Puller Kit Can Help Reduce Costs

Dealing with a range of service line sizes from 3/4" to 2", the Service Line Puller Kit allows you to either split or pull out the old service line, depending on the type of material, without having to dig excessively. Instead of long trenches that tear up the street, sidewalk, and lawn, you can simply dig a short trench at the curb end of the line for backhoe pulling, disconnect it on the other end and use the attachments to pull out the old service line while pulling the new one into place. As with all of New Concept Tools' products, our kit is designed with the needs of the water utility in mind, such as bullheads that can be removed from the cable and attached to a new cable should you experience a break.

Visit <https://www.newconcepttools.com/> or call (207) 588-1889 for more information. ■



TRIMBLE LEAK DETECTION SOLUTION HELPS KITTERY WATER DISTRICT LOCATE LEAK AND RESTORE WATER SERVICE

The Town of Kittery, Maine Water District, received a call at 7:15 am on Saturday, March 28th, 2020, from a customer without water. Soon after, the district contacted Team EJP for an emergency leak detection service to help find the leak.

When Team EJP arrived at the scene of the issue, water was not surfacing from the road but was seen coming out of the ground running into a nearby water source. A plan of action was quickly prepared to perform leak detection and return the customer's water service back to 100%.

Team EJP went on-site with the Trimble Leak Locator Kit. This consisted of two acoustic sensors that were connected to hydrant valves with the suspected leak isolated in the middle.

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TEAM QWP PROVIDES THEIR FIRST EVER 30" DIAMETER BY 4' LONG FLOW STRAIGHTENER FOR THE U.S. NAVY



Warren Pumps, a subsidiary of Circor Naval Solutions, has been manufacturing pumps since 1897. They focus on pumps for both the industrial markets and the US Navy. In 2019, they received an order to refurbish two circulator pumps to go on a US Navy surface vessel. Per usual, the pumps are retested in Warren's 110,000-gallon water test facility using a 30" venturi style flow meter to measure performance. Upon the required retest, it was found that both pumps performed equally low on flow. Troubleshooting determined a potentially defective flow meter. In turn, Circor Naval Solutions rented an ultrasonic flowmeter in order to confirm the performance. Unfortunately, the pumps created so much turbulence on the upper end of the performance curve that the ultrasonic flowmeter couldn't properly operate.

Warren was unable to provide the industry standard for length of straight pipe required to make the flow laminar due to facility constraints.

As a solution, Circor Naval Solutions procured a 30" diameter by 4' long flow straightener from Team QWP (Quality Water Products) for high flow rate testing. This device will be used during the testing of US Navy pumps and can provide upwards of 30,000 GPM. The purpose of this device is to calm the test media prior to ultrasonic flow rate measuring by reducing the turbulence in the flow. Ultrasonic measuring is most accurate with solid streams of fluid rather than a media filled with voids. The flow straightener will be installed downstream of the Navy pump, but upstream of the ultrasonic flowmeter to make the flow more laminar for measurement.

Circor Naval Solutions performed a retest of the pumps during early March 2020 using an ultrasonic flowmeter and the flow straightener. Team QWP was able to design, quote, manufacture, and deliver their first ever flow straightener with no delays or production interruptions for Circor Naval Solutions. ■

Trimble Leak Detection Solution continued from page 5

Two tests were conducted on 1,200' of 6" cast iron pipe. The initial results came in 4' apart from each other. After reviewing the results in detail, the next option was to dig down to the pipe. With many hurdles while digging, EX: (Pavement thickness, rocky soil, and water filling the hole quickly), the pipe eventually exposed itself and was repaired later that evening.

By using the Trimble Leak Locator kit, the leak was effectively found for Kittery Water District. Even through facing many unexpected challenges, A consistent and calculated team effort overcame the obstacles that were brought forward to turn the customers' water back on.

"Team EJP dispatched Nick Bates with Trimble Water leak correlating equipment to pinpoint where to excavate. After locating the EST 1914, 6" water main, the fix was quick with the use of an Alpha Gate Valve and Alpha Coupling. Thank you Team EJP!" - Mike Rogers, Superintendent, Kittery Water District ■





INSTALLING AN INSERTION VALVE ON A LIVE LINE WITHOUT LOSS OF SERVICE IN SOUTH BERWICK, ME

On June 25, 2020, North Berwick Water District reached out to Team EJP for assistance with their water system. After discussing the details, a resolution to their problem was quickly devised. With plans to extend the existing water main, a shut off valve (insertion valve) would be required to complete the work. Without a live valve insertion, North Berwick's loyal customers would be temporarily without water.

The Insertion Valve Process:

- Cleaning the face of the pipe to create seal for the sleeve.
- Using pilot bit and 6" whole saw to cut through the water main.
- Removing the 6" section of pipe that was cut out.
- The use of a reamer to remove burs from side wall of pipe.
- Use of the reamer to remove tuberculation build-up from bottom of pipe.
- The installation of a rubber valve into the live main.
- Proper operation of the Quik Valve machine while under full water pressure.

Team EJP Gardiner ME Service Coordinator, Robbie Maheux's quick response to provide a sound solution was a difference maker. Service Technician, Patrick Coughlan arrived on the jobsite and completed the insertion valve in just 3 hours. North Berwick's customers never lost their water. North Berwick can now use our insertion valve as a shut off while they extend their water main. ■



WATER CONSERVATION CORNER

WATER CONSERVATION MEASURES

Earth has a finite amount of fresh, usable water. Fortunately, water is naturally recycled (collected, cleansed, and distributed) through the hydrologic cycle. Humans have developed the technology to speed this process. However, because of diverse factors (drought, flood, population

growth, contamination, etc.) water supplies may not adequately meet a community's needs. Conservation of water can ensure that supplies of fresh water will be available for everyone, today and tomorrow.

1. Use a broom instead of a hose to sweep sidewalks and driveways.
2. When washing the car, use a hose with an on/ off nozzle or use buckets of rinse water.
3. Water lawns in the mornings or evenings when water will not evaporate as quickly. Make sure the water lands on vegetation and not on streets or sidewalks. If possible, save rainwater for watering lawns.
4. If you need to run water before it becomes hot, store the cool running water in a bottle for use in rinsing dishes, and washing vegetables and hands.
5. When washing dishes by hand, use a sink full of rinse water rather than letting the water run.
6. Fix leaks!
7. Install a low-flow showerhead.
8. Turn off the water when it is not in use. Don't leave it running when brushing teeth. Turn off the water between soaps and rinses when washing hands.
9. Run the dishwasher or washing machine only with a full load.
10. Keep a bottle of cold drinking water in the refrigerator instead of running water until it becomes cool.
11. Limit shower time to 5 minutes or less.
12. Take showers instead of baths.

"Water Conservation Measures." Water Education Foundation,
www.watereducation.org/general-information/water-conservation-measures.

WELCOME

TEAM EJP / AMERICAN



32 Prescott Street
Libby Hill Business Park
P.O. Box 600
Gardiner, Maine 04345

Phone: (207) 582-1851
Fax: (207) 582-5637
Email: ejp@ejprescott.com
Website: www.ejprescott.com

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IN MEMORY OF RICH BARRETT

It is with a heavy heart that we recognize the passing of Rich Barrett, Inside Marketing Representative for Team EJP's South Burlington, Vermont Division.

Rich joined Team EJP in April of 2007 and proved to be an invaluable teammate while helping the division grow. Those who met Rich were always greeted with a smile and a willingness to help. When short-handed, Rich was always willing to pitch in and go the extra mile to ensure the needs of customers were met, and operations continued without interruption.



"Rich was always down to earth and would truly listen when people talked. I know when I personally was going through the worst days of my life, he always had words of positivity and would give encouragement. Rich knew how to take care of the customer and get the job done. It was an absolute pleasure and honor to work alongside of Rich for the last 13 years."

-Craig Paquette, Team EJP South Burlington, VT.

Rich leaves big shoes to fill, and he is dearly missed. ■