

# WOLF CREEK DAM: MILESTONE REACHED WITH THE COMPLETION OF THE CONCRETE EMBANKMENT WALL

*Cesena, 3<sup>rd</sup> July 2012* – The **TREVI** division, specialized in ground engineering services, through its foreign subsidiary **TREVIICOS Inc.** in JV with a strategic partner, reached a major milestone at the Wolf Creek Dam in Nashville, Kentucky with the installation of the 433<sup>rd</sup> and final panel of the protective concrete embankment wall. The works carried out are part of the large Foundation Remediation Project of the US Corps of Engineers. This press release follows the important announcement of the milestone reached by the US Corps, enclosed in this document.

The completion of the Protective Concrete Embankment Wall (PCEW) finalizes a major stage of construction that is crucial for the final stage of construction of the main barrier wall.

The PCEW is a six-foot wide and up to 230 feet deep concrete wall that stems down to the top of the rock extending 3,800 feet along the length of the embankment. The principal purpose is that of protecting the embankment while the main barrier is being built. The safe completion, without any complications, of this particular part of the project represents a major accomplishment both for the technologies and the project management skills employed in coordinating the large number of machinery on the operating platforms.



Main platform operations - Wolf Creek

The installation of the main barrier wall continues and more than 70 percent of the concrete piles have been successfully completed. These piles extend up to 275 feet deep through the embankment and into the limestone to close openings in the rock and cut off seepage.

TREVIICOS achieved another milestone this month reaching 920,000 man-hours without an accident. This represents an absolute ground breaking record both for the scope and complexity of this project which represents the largest and most difficult foundation remediation project in the world to this day.

Stefano Trevisani, CEO of TREVI Group stated: "The achievement of this important milestone represents a significant testimony of the technological excellence of TREVI Group. The execution of this project continues to be an integral part of the project management skills brought forward by the Group in executing large and complex contracts. Work is being carried out successfully with the highest standard of safety registering the most efficient rates of production. We are absolutely pleased to provide the best services and technology in the industry and strive to continue the successful execution of this important and broad project of the US Corps of Engineers".

#### Work & Safety



# **Environment & Efficiency**





#### Recognition



# **About Wolf Creek Dam Foundation Remediation Project:**

The scope of the work is the installation of a concrete barrier wall at Wolf Creek Dam in Russell County, Kentucky. The concrete barrier wall is the primary element of the Wolf Creek Dam Seepage Rehabilitation Project. The wall will be a combination of secant piles and rectangular panels installed through the earthen embankment to a depth of about 275 feet. It will go deep into the foundation rock to effectively cut off seepage though the limestone.

### Link to the press release of the US Corps of Engineers:

http://www.orn.usace.army.mil/

#### **About TREVI GROUP:**

Trevi Group is a worldwide leader in the field of soil engineering (special foundations, tunnel excavation, soil consolidation and the building and marketing of special rigs and equipment relevant to this engineering sector); the Group is also active in the drilling sector (oil, gas and water) both in the production of plant and the supply of services, and it also builds automated underground car parks. The Group was established in Cesena in 1957 and today has more than 30 branches and is present in over 80 countries. Its success is due to the vertical integration of the main divisions making up the Group: **Trevi**, the division that supplies special services in the field of soil engineering, **Petreven**, the oil drilling division of the Group, **Soilmec**, the division that produces and develops plant and machinery for soil engineering and **Drillmec** the division that produces and develops drilling rigs (oil, gas and water).

The parent company TREVI – Finanziaria Industriale Spa has been listed on the Milan stock exchange since July 1999. The key financial figures for 2011 are: Total revenues of €1,061.4 million, EBITDA of €119.0 million (margin of 11.2%), EBIT of €69.3 million (margin of 6.5%), and NET PROFIT of €25.7 million.

More information can be found on the website: www.trevifin.com.

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# **NEWS RELEASE**

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## Milestone reached with completion of protective concrete embankment wall at Wolf Creek Dam

JAMESTOWN, Ky. (June 22, 2012) – The U.S. Army Corps of Engineers Nashville District reached a major milestone here this week at the Wolf Creek Dam Foundation Remediation Project when work crews installed the 433rd and final panel in completing the protective concrete embankment wall. While this wall does not create a water barrier through the dam's karst limestone foundation, it completes a major stage of construction that is critical to the final stage of construction – the main barrier wall, which is scheduled to be completed by December 2013.

The PCEW is a six-foot wide and up to 230 foot deep concrete wall through the dam's clay embankment down to top of rock. It extends 3,800 feet along the length of the embankment. Its purpose is to protect the embankment while the main barrier wall is being constructed. The PCEW was one of several complicated components on the project and its safe completion without any major complications is a significant achievement.

Bill DeBruyn, resident engineer, said the entire Wolf Creek team has been working hard to reach this milestone. "They felt a tremendous and well-deserved sense of accomplishment when the last concrete was placed for the PCEW," he said. "Our contractor continues to work two shifts a day, six days a week in an effort to complete the project as soon as possible."

The contractor, Treviicos-Soletanche Joint Venture, continues to install the main barrier wall and has completed more than 70 percent of the concrete piles that create it. These piles extend up to 275 feet deep through the embankment and well into the limestone to block openings in the rock. The main barrier wall must be completed before Lake Cumberland can be raised back to its normal levels.

The contractor achieved another milestone this month when it reached 920,000 man-hours without an accident that would cause a worker to miss time on the job. Nashville District officials said a commitment to safety by Treviicos-Soletanche Joint Venture also contributed to timely completion of the PCEW.

The foundation remediation began in 2008 when the Corps took aggressive action to reduce the risk of failure and to effectively cut off seepage through the limestone caused by erosion of the dam's foundation from water pressure in the reservoir.

The Corps made an emergency decision in 2007 to maintain the lake at elevation 680 feet. Despite lower lake levels that have been maintained during construction, Lake Cumberland is still the third largest lake in Kentucky, and recreation opportunities for fishing, camping, and water sports remain highly accessible.

For more news, information and updates please follow the U.S. Army Corps of Engineers Nashville District on Facebook at <a href="http://www.facebook.com/nashvillecorps">http://www.facebook.com/nashvillecorps</a> and Lake Cumberland at <a href="http://www.facebook.com/lakecumberland">http://www.facebook.com/lakecumberland</a>.

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