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### ***ENGINEERING SERVICES REQUIRES BUOYANCY AND BALANCE***

Larkin Group, Inc. has a strong history with the City of Lee's Summit from the late 90's of providing the City valuable engineering



services. So when the City of Lee's Summit, Missouri invited our proposal for the Water Tank Rehabilitation Services, Larkin's submission focused on continuing our loyal relationship with the City and proposed a team highly experienced in water tank evaluation and engineering design. Evaluating the sanitary features such as protective screens and structural condition of welded steel water tanks are an important part of asset management

Greg Kendall, P.E. applies his 18-years experience at Larkin in managing the Lee's Summit Project. He has assembled a team consisting of experienced engineers and technicians to ensure the project is completed quickly and successfully. The first phase of the rehabilitation project included inspecting the existing tanks' exteriors and interiors, which required specialized field work that most engineering firms no longer provide. Chad Harrington, E.I.T. now has a personal understanding of the condition of these two Lee's Summit water storage tanks. As part of the interior inspection process, Chad wore a wet suit treated

with a bleach mixture for sanitation, along with his camera, flashlight, gas detector, and a raft. He climbed down inside the tank and floated for several hours taking photos, gathering paint samples and making notes. There are a couple of different methods for performing the task of interior inspection. Floating in a raft is Larkin's preferred method. Other clients have expressed this method as the most reliable in gathering the information needed to have a complete assessment of the tanks and far less extensive than scaffolding or other rigging.

Greg Kendall, along with Chad Harrington and John Oelklaus performed the exterior inspections. Exterior inspection required the use of



a safety harness to safely climb the ladder on the outside of each tank. While climbing observations were recorded on the general condition of the structure and any deficiencies in the coatings. In addition to field adhesion tests on the coatings, laboratory tests were run to determine the lead and chromium content. Levels of these two metals dictate whether the removed residue is considered hazardous. The interior and exterior data was combined into an evaluation report with alternatives for rehabilitation of each structure.

Water systems and tank inspections are one of Larkin's strongest areas of service. Lee's Summit now has a plan for the rehabilitation, and Larkin has started the next phase of design.

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