

# Simplot's Potato Process Water Treatment and Return Plant – Project Description

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**Abstract:** This presentation will describe what led Simplot's Food Division to design/build a 3.2 mgd Process Water Treatment and Return Plant (PWTRP) in Caldwell, ID and show and describe how the treatment plant utilizes innovative technology. The treatment plant will return water meeting drinking water quality to be used in production processes in the new potato facility. The plant is constructed and started treatment in September 2013 and uses screening, primary clarifier, anaerobic digestion, enhanced biological nutrient removal, MBR's and RO processes. The brine from the RO is evaporated on-site by an innovative enhanced spray evaporation system. Sludge is dewatered by centrifuges.

**Presenters: Henry Hamanishi, P.E. and Al Goodman, P.E.**

## **Professional Backgrounds:**

**Presenter: Henry Hamanishi, P.E.**  
**Title: Manager of Environmental Engineering**  
**Organization: J. R. Simplot**  
**Address: PO Box 27 Boise, ID 83707**

**Professional Background:** Henry Hamanishi, P. E. is currently employed by the J. R. Simplot Company at their Corporate Office in Boise, Idaho in the Corporate Environmental, Health, Safety & Security group as the Manager of Environmental Engineering. Current duties include environmental oversight for the Simplot Food Group environmental programs, implementing environmental policy and programs for the Corporation, assisting in obtaining permits and licenses and coordinating with the plants on solving environmental issues. Henry has been employed by Simplot for nearly 30 years, starting as a process engineer. Henry has worked in the environmental area for over 25 years.

Henry graduated from Oregon State University in 1974 with a Bachelor of Science degree in chemical engineering; Henry obtained his Professional Engineering license from the state of Idaho in 1984 in chemical engineering.

**Presenter: Al Goodman, P.E.**  
**Title: Principal**  
**Organization: CDM Smith**  
**Address: 9100 Shelbyville Rd, Suite 150, Louisville, KY 40222**  
**Phone: 502 339 0988**

**Professional Background:** Al Goodman, P.E. is a Principal with CDM Smith from their Louisville, KY office. He has been with CDM Smith for 8 years and holds corporate responsibility for food and beverage plant reuse projects. He has 39 years of experience in wastewater treatment design, troubleshooting, marketing, and technical assistance to industrial and municipal clients. His primary focus has been on biological and physical chemical processes worldwide. He has a BS degree in Chemistry, is a Professional Engineer in 3 states, certified wastewater operator (highest level in industrial and municipal sectors) and a Certified Hazardous Materials Manager.

Mr. Goodman has been President of many technical organizations, chaired 14 environmental committees and is Past President of the Water Environment Federation. He has delivered over 200 presentations related to the environment and water quality.