



Nate Talbot, P.E. - Project Engineer



Mr. Talbot started his Engineering career with AQUA Engineering in March of 2008. His emphasis in engineering experience focuses on water and wastewater treatment, anaerobic digestion, and solids handling. Nate is experienced with process design engineering, mechanical installation, and hydraulic modeling. His recent renewable energy project involves extensive heat recovery design, carbon credit monitoring, waste collection and pumping, digester mixing, and biogas conditioning.

Education

B.S. Civil & Environmental Engineering, University of Utah, 2007
M.S. Civil Engineering, University of Utah, 2008

Registration

Professional Engineer - Utah

Affiliations

WEAU

Experience

7 total years

Specialties

Renewable Energy
Wastewater & Water Treatment
Industrial Water Treatment
Biosolids Reuse & Disposal

Wastewater Treatment

2013 Skyline Energy Recovery Project - Beaver, UT - \$4 million.

Design and upgrade to swine manure collection system including several custom-built pump stations, screening structures, and over 20 miles of HDPE conveyance piping.

2012 Blue Mountain Energy Recovery Project - Beaver, UT - \$18 million.

Collected swine manure to produce biogas from two 10 million gallon anaerobic digester basins. Conditioned biogas to burn with two 1.6 MW engine generators.

2013 WRCRWA Wastewater Treatment Expansion - Riverside, CA - \$40 million.

Implementation of two anaerobic digesters in expansion design. Biogas handling includes scrubbing, conditioning and heat recovery using solar drying technology.

2013 Colorado River Resort Water Treatment Facility - Moab, UT - \$3 million.

Designed water and wastewater treatment facilities for new resort development including microfiltration, disinfection, fire suppression, and wastewater disposal.

2013 Heber Valley Wastewater Treatment Facility - Heber, UT - \$8 million.

Expanded treatment facility from 2 MGD to 4 MGD by installing a new STM Aerotor treatment system utilizing RIB for wastewater disposal.

2012 Tooele City, UT Wastewater Treatment Plant Expansion - \$8.5 million.

Expanded plant from 2mgd to about 4mgd in two phases. Second Phase included sludge screw presses solar drying, shade building and UV disinfection.

2011 Jerome WRF Upflow Anaerobic Sludge Bed (UASB) Feasibility - Jerome, ID.

Analyzed feasibility of implementing UASB technology for industrial waste digestion ahead of

municipal MBR facility.

2011 Orem City Water Reclamation Facility Expansion - Orem, UT - \$18 million.

Remodel and expansion of new thermophilic digester including upgrades to activated sludge (oxidation ditch), nutrient removal, UV disinfection, and reuse.

2011 Tremonton Wastewater Treatment Facility - Tremonton, UT - \$2 million.

Installed new Salsnes Filter Building for redundancy to the primary clarifier.

2010 Blanding City Water Treatment Plant - Blanding, UT - \$6 million.

Installed a new 3 MGD microfiltration water treatment plant and gravity transmission line to the plant.

2009 Imperial Water Reclamation Facility - Imperial, CA - \$20 million.

5 MGD Zenon hollow fiber membrane system, expandable to 15 MGD. Includes fine screening, biological treatment, UV disinfection, RIB disposal, and standby power.

2009 Elko Water Reclamation Facility Upgrade - Elko, NV - \$2 million.

Headworks upgrade from 5 MGD to 10 MGD including new Huber step screen, chemical odor control treatment, and activated carbon scrubbing.