

Granite-Reeder Wastewater Collection and Treatment Facilities

Priest Lake, Idaho

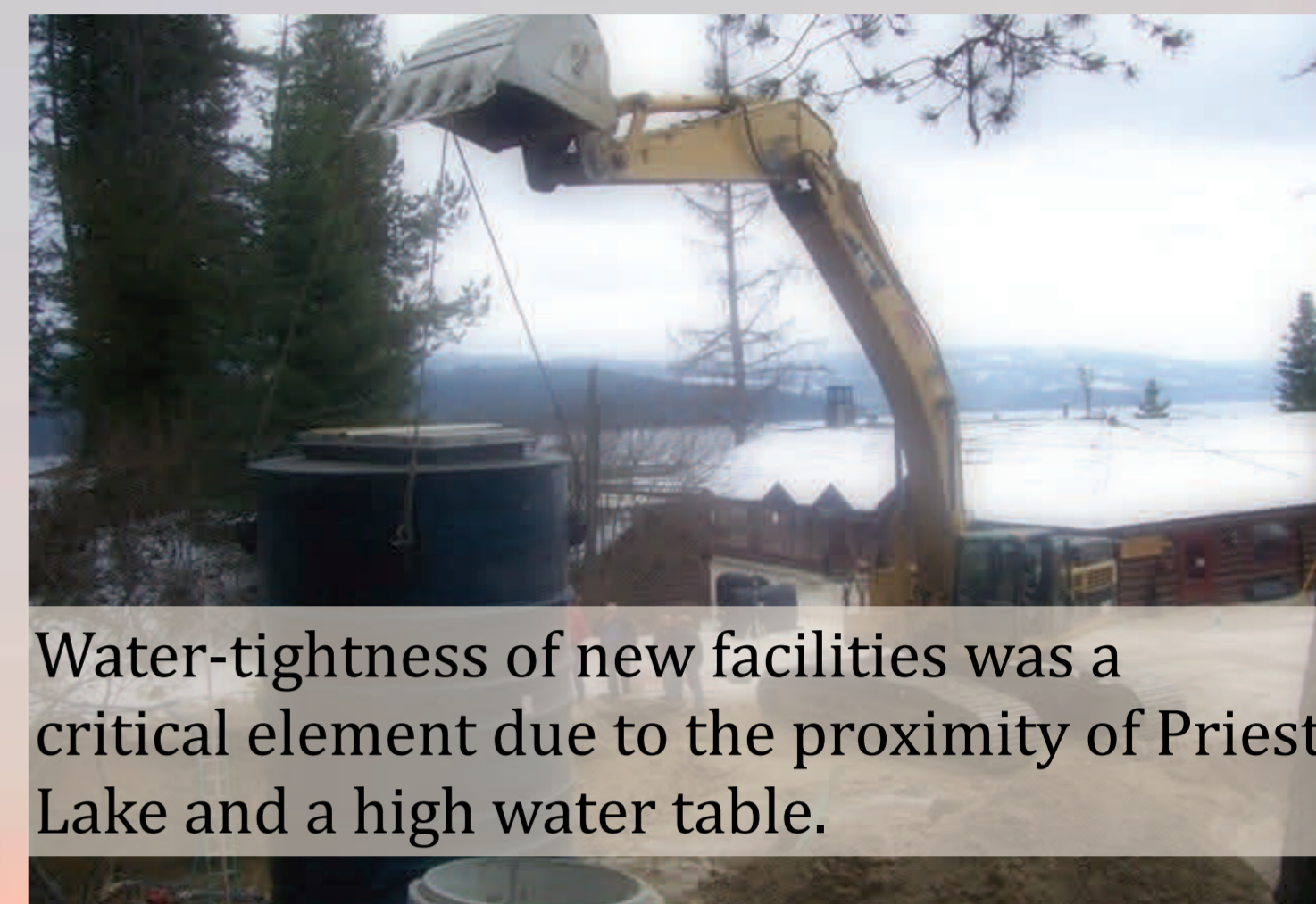
Granite-Reeder Water & Sewer District, Nordman, ID

Welch Comer Engineer, Coeur d'Alene, ID

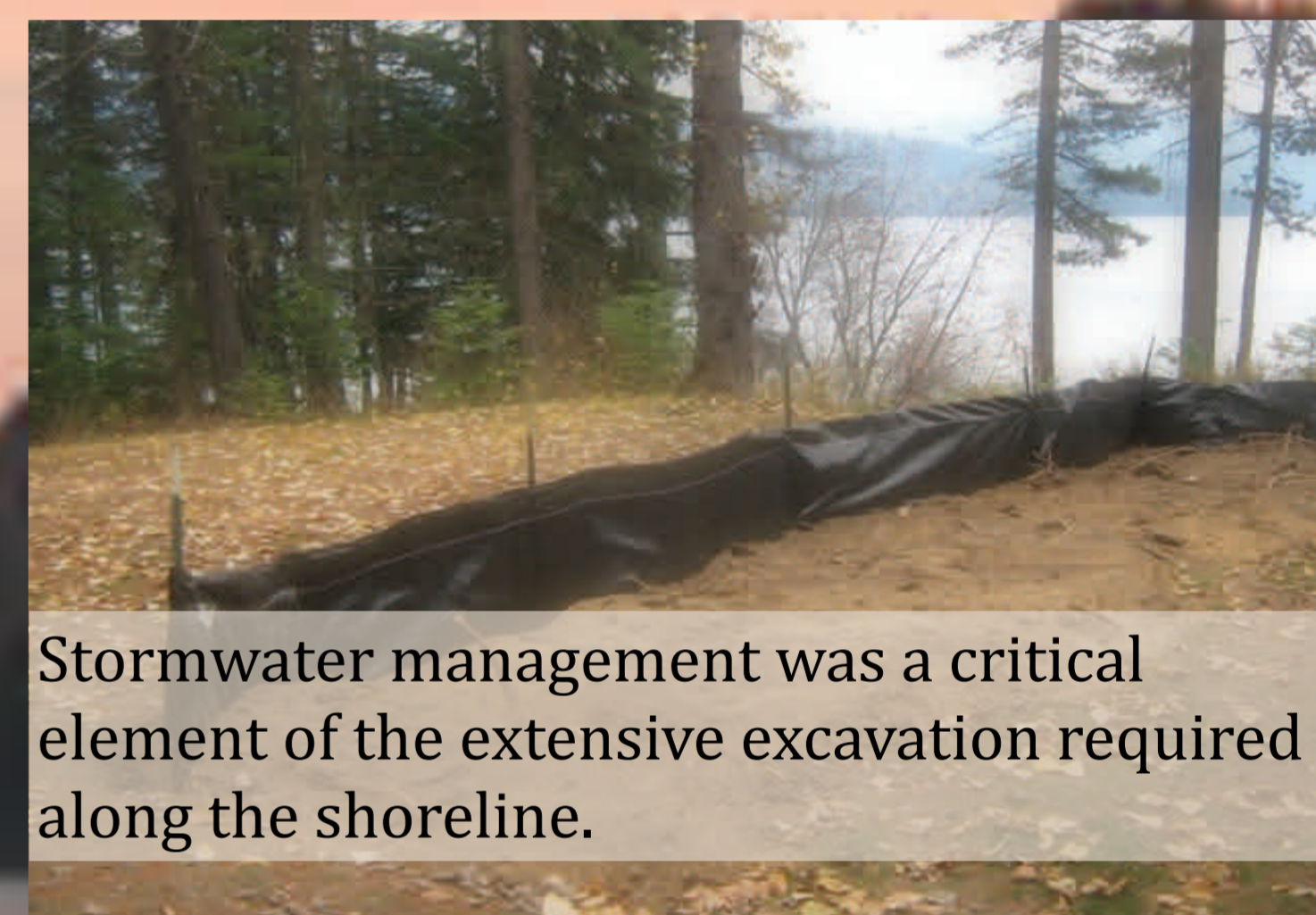
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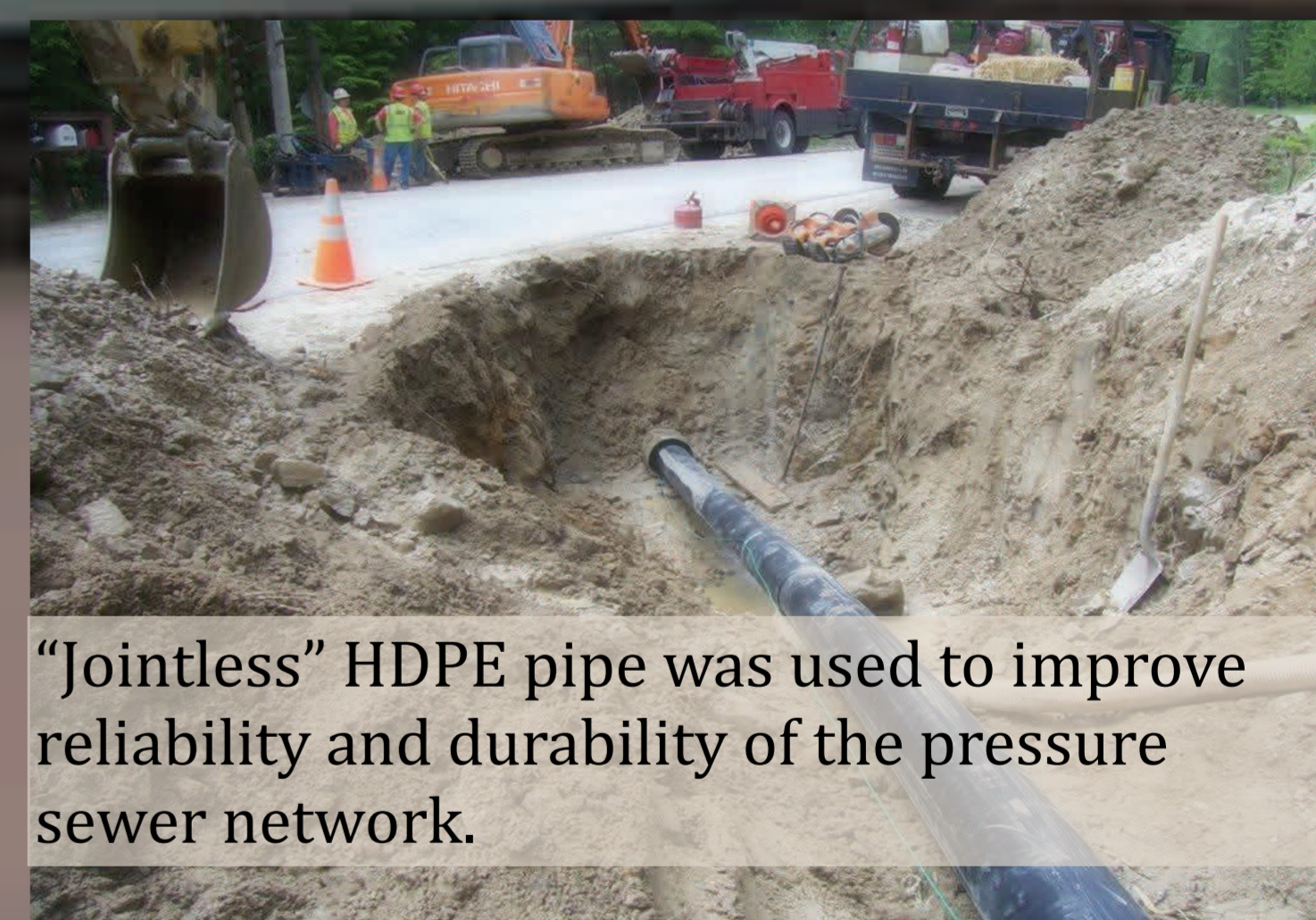
Water-tightness of new facilities was a critical element due to the proximity of Priest Lake and a high water table.



Stormwater management was a critical element of the extensive excavation required along the shoreline.

Priest Lake is one of the most pristine and scenic lakes in America, and is a priceless asset for the State of Idaho. The Granite Reeder Wastewater Collection and Treatment facilities along the northwest shoreline of Priest Lake are now in operation to protect this precious resource.

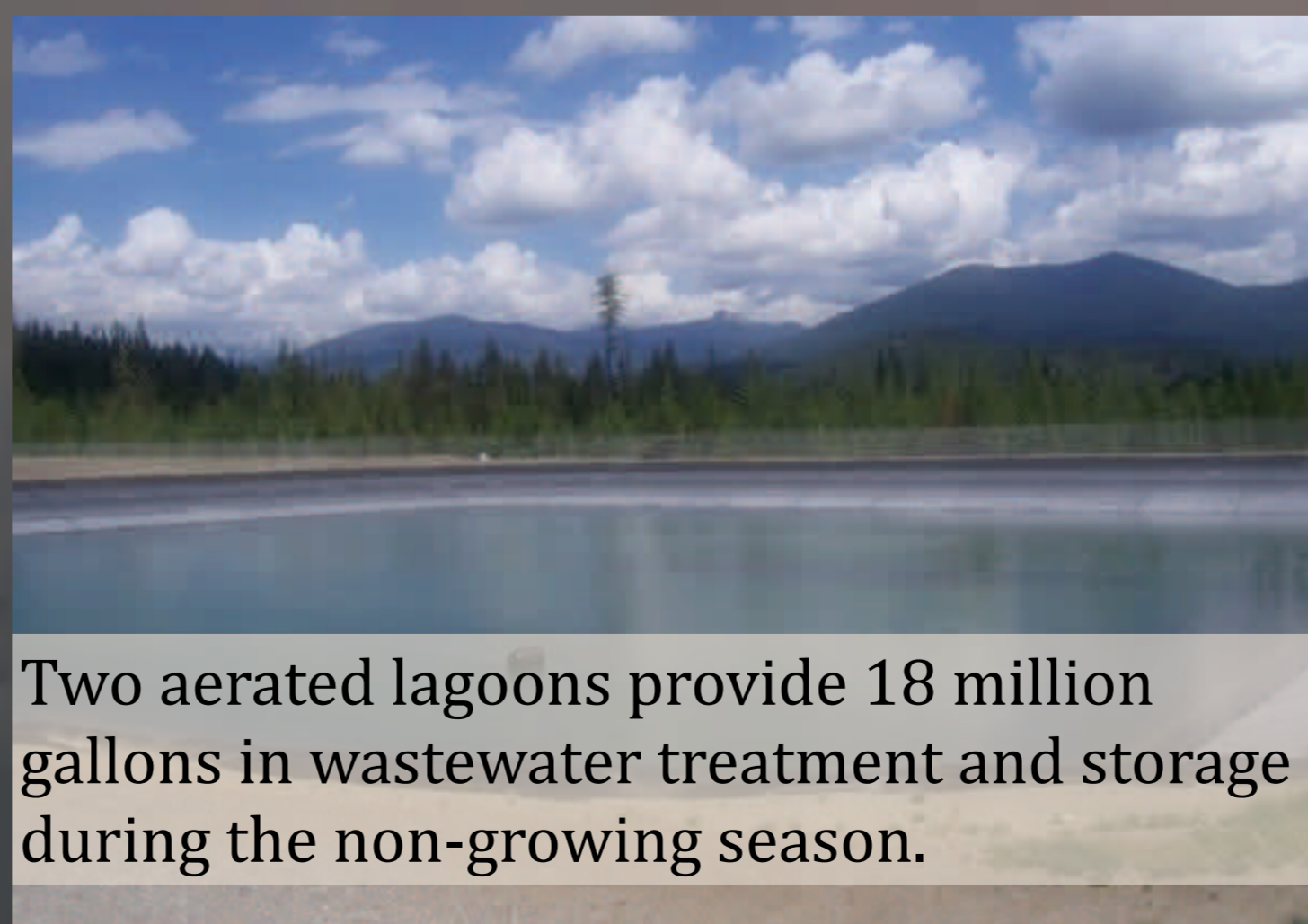
After 30 years of false starts, controversies, and regulatory agency studies, this \$12 million public investment in an environmentally sustainable wastewater system, now completes the network of public wastewater facilities around Priest Lake. Welch Comer Engineers of Coeur d'Alene, Idaho performed the design, construction oversight, and financing assistance for the Granite Reeder Water and Sewer District.



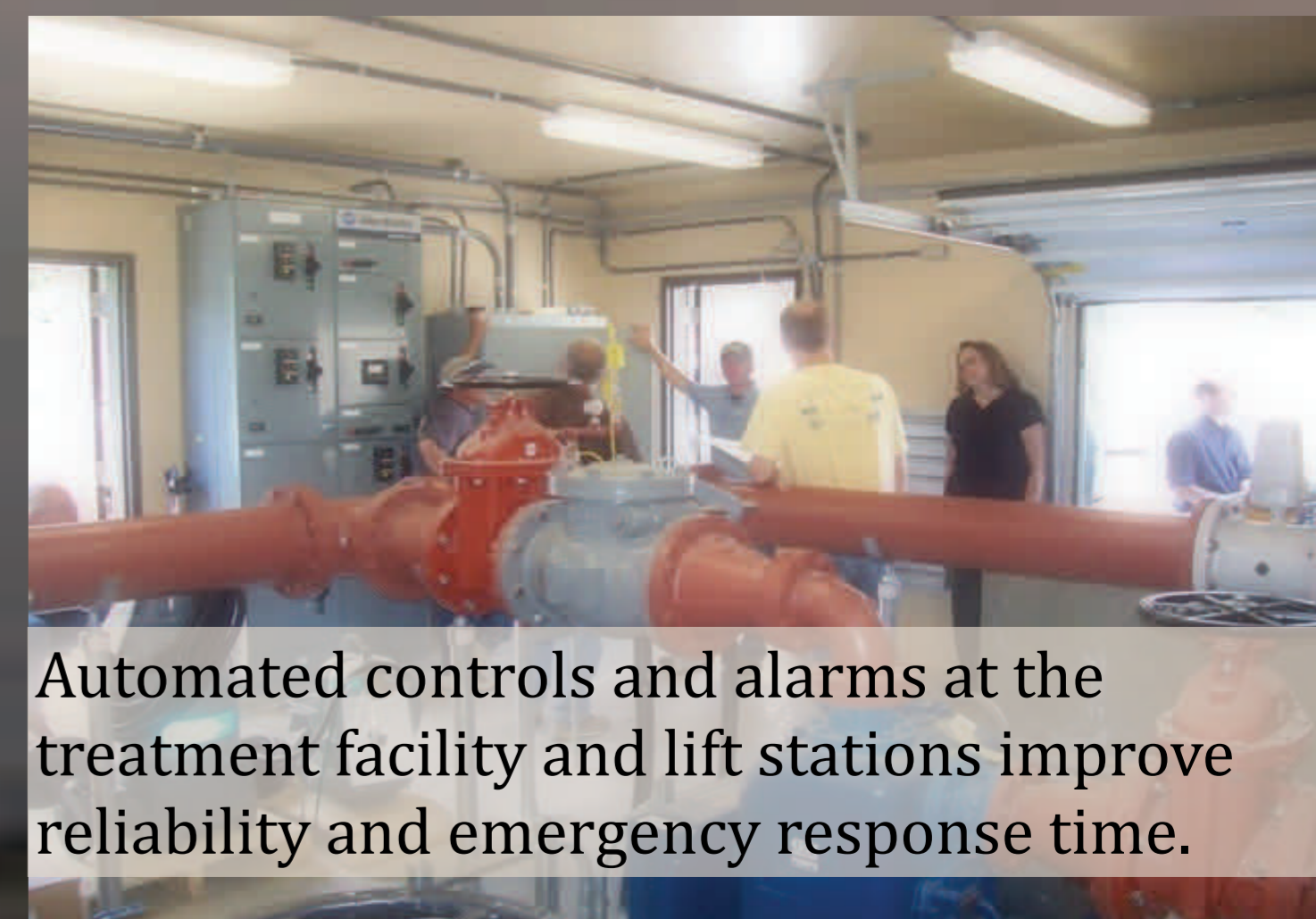
"Jointless" HDPE pipe was used to improve reliability and durability of the pressure sewer network.



Treated wastewater effluent is "recycled" on a native forest crop which results in a zero-discharge wastewater facility.



Two aerated lagoons provide 18 million gallons in wastewater treatment and storage during the non-growing season.



Automated controls and alarms at the treatment facility and lift stations improve reliability and emergency response time.