



City of Rexburg

Wastewater Treatment  
Plant



**Treatment Plant Headwork's**

This is where the journey begins



## **Influent Channel**

City of Rexburg's Influent Flows Are average of 3.0 MGD a day, we treat Rexburg, Sugar City, and City of Teton Wastewater



## Mechanical Bar Screen

This bar screen is in the head works influent channel here all identifiable are removed ,combed out of the flow and augured into a grit buggy.



## Grit Buggy

Here is where all the identifiable's are placed, the grit, dirt, sand, and eggshells are removed and placed here as well, through grit removal.



## **Splitter Box**

Here is where the flow is split evenly to the oxidation ditches.



## **Oxidation Ditches**

The treatment plant has four oxidation ditches each ditch has 3 sections of air diffusers total of 720 per ditch. Overall total in all four ditches 2880 diffusers to carry the air through each one.



# Oxidation Ditch

Good mix of air in each ditch



# Clarifiers

Currently the City has 3 secondary clarifiers



## **Ras/Was pump room**

Ras -return activated sludge

Was- waste activated sludge



## **City of Rexburg Wastewater Laboratory**

The city wastewater lab handles a lot of the testing in our own facility, some testing include BOD, TSS, Ph, Ammonia's , and Fecal coliform along with many others.



## Gravity Belt Thickener & Holding Tank

Holding tank is for the *waste/WAS* then the *was* is ran through the **GBT** process, **Gravity Belt Thickeners**



## **Digesters & Bio-Solids Handling**

Digesters aerate the GBT process then the digested GBT sludge is processed through the Centrifuges, and hauled off to the City's property, West of town.