

# Mount Zero Powdered Activated Carbon (PAC) dosing system

(reference site only)



A fully automatic plant capable of unattended operation, including automatic recovery following a power supply failure without the need for operator intervention



Design, supply, fabricate, install and commission a fully functional standalone automated PAC dosing plant



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# Improving water taste and odour using powdered activated carbon dosing prior to treatment at the water treatment plant

Horsham Victoria is located approximately 300km northwest of Melbourne with an estimated population of 17,000 people.

Mt Zero Water Treatment Plant (WTP) treats water from the Mt Zero raw water storage to provide a drinking water supply to Horsham and the surrounding region.

During the warmer months low river flows can impact the taste of the water. To combat this, TRILITY was contracted to design, fabricate, install and commission a fully functional, standalone automated powdered activated carbon (PAC) dosing system. PAC is used in drinking water treatment to remove taste and odour compounds. It is removed later in the process either by sedimentation or filtered out. The associated works included chemical storage, process tanks, buildings and access roads, along with a range of integration works to connect into existing pipes, electrical and control systems.

The plant remained operational during the construction to ensure continuous service to GWM Water's customers.



## Who

GWM Water provide, manage, operate and protect water supply and sewerage systems for the Grampians, Wimmera and Mallee regions. They provide water and wastewater services for approximately 72,000 people across the region.

## What

PAC packaged water treatment solution including:

- Powdered activated carbon volumetric dry material feeders duty/standby
- Service water supply with wetting cones duty/standby
- PAC storage hopper 8m<sup>3</sup> volume with hopper high/low level and weight indicator
- Dust collection system
- Screw conveyor system
- Bulk bag unloading system with lifting frame

## Where

Mount Zero Water Treatment Plant, Victoria

## Why

During the warmer months, low river flows can impact the taste of the treated water. A PAC dosing system was installed to remove any such taste and odour, thereby ensuring water quality.

## Snapshot

<b>Client</b>	Grampians Wimmera Mallee (GWM) Water
<b>Technology</b>	Powdered activated carbon dosing system
<b>Capacity</b>	30ML/day