

# CASE STUDY

## Dealing with a broken stormwater pipe

**Location:** South Hobart Primary School, South Hobart

### The Problem

Whenever it rained, and for days later, water flooded out from the playground at the South Hobart Primary School. It not only made the soft-fall area unusable but flooded across the basketball courts. It was suspected that heavy equipment brought in during construction of a new gymnasium adjacent to the existing buildings had cracked the stormwater pipes, most likely in two different places.

Available drainage plans were vague but inspection of a nearby stormwater sump pit showed that pipes coming into it from the direction of the playground were dry, suggesting that the subsurface drains were not functional, either broken or blocked.



An independent drainage contractor confirmed the diagnosis and provided a **quote of \$3,288** to install new ag pipe based intercept drain across the top of the playground.

A small, exploratory excavation revealed that there was, indeed, an existing ag pipe at the bottom of the playground heading in the direction of the sump pit. It also revealed that the ag pipe was partially blocked, and that the geotextile fabric covering the pipe appeared to be also blocked with soil.

The contractor said that he would also replace this drain.



### The Solution

It was apparent that the stormwater was welling up through the soil in more than one place. It was decided that Capiphon could be installed directly on the clay underneath the soft-fall to intercept this water.





## The Result

Perfect.

## The Cost

\$1,952, a saving of \$1,336.

Conventional Drainage (quote)		Capiphon™ Drainage (actual)	
Labour	\$950	Labour	\$875
Ag Pipe	\$295	PVC Pipes	\$159
Plumbing & Fittings	\$278	Plumbing & Fittings	\$278
Aggregate	\$520	Sand	\$40
Excavation	\$855	Excavation	\$275
Geofabric	\$195	Capiphon™	\$300
Top soil	\$195		
	<b>\$3,288</b>		<b>\$1,952</b>