

## **Bobcat E60 Excavator and S650 Loader ideal work site combination.**

'They were made for each other, like beer and potato chips,' said Steve Cugley, the Operations Manager for the Civil Remediation Division of McMahon's Services. 'We're working at Glenside Hospital on SA Film's new premises where we are building major works that includes installing storm water and sewerage facilities.'

'We did the trenches with the E 60 excavator and laid a bit of sand or screenings in the trench depending on what services are going in. We used a crane to lower the pipes into the trench and back fill it with the S650 Bobcat loader. We compacted it in layers as we backfilled until it was back to the ground level.'

The recently introduced Bobcat M-Series Excavators incorporates the E60 as well as a range from the model 418—1.1 tonne right up to the E80 at 8.4 tonne.

Bobcat took it's best-in-class performance and made it better. New M-Series excavators are completely redesigned to deliver stronger performance in a lighter machine.

- Smooth, quiet and efficient operation
- Reduced overall machine weight
- Tremendous digging and lifting performance
- Impressive tractive performance when manoeuvring
- Enhanced travel performance
- Low fuel consumption
- Productivity-boosting operator comfort

The 6.1 tonne E60 features minimum tail, a powerful 39 Kw diesel engine, 4.1 metres dig depth, 6.5 metres reach at ground level, 4.1 metres dump height.

The Bobcat S650 is also a part of—the best is even better. With the new M-Series Bobcat Loaders, there's a difference you can see—and a difference you'll experience on the job.

Great performance doesn't only come from a high horsepower engine. Bobcat loaders use the machine's design and balance to deliver more usable horsepower. They build machines with the right balance to deliver more usable horsepower.

- Quicker turning—ideal weight distribution of 70% in the rear and 30% in the front delivers ideal performance
- Faster cycle times—hydraulic pumps in Bobcat loaders are matched to cylinder size and loader lift capacity
- More Torque—Bobcat loaders reach maximum torque at a lower RPM
- Control in your hands—you can feel the loader's drive, engine torque and tractive effort
- Powerful Breakout forces—high-efficient hydraulic pumps deliver more power

The M-Series vertical lift S650 has a Rated Operating Capacity of 1,220 kg, a tipping load of 2,440 kg, a height to hinge pin of 3,149 mm, and powered with a 74.3 hp diesel engine.

'The Bobcat loader carries out general site works and clean up while the excavator performs any digging both major and minor around the site,' said Steve Cugley.

McMahon services are the leading industrial service providers in the building and construction industry in Australia. The company provides a range of diversified construction

engineering environmental and contract maintenance services, including civil engineering, environmental remediation, asbestos removal in demolition, toxic waste handling, industrial maintenance and industrial services, including industrial maintenance and cleaning.

McMahon Services have successfully completed construction programs that exceed \$200 million in recent years, this work ranges from small projects attending private clients, through to multi-million-dollar design, construction infrastructure programs.

Some examples of their projects are as follows.

Amcor—Demolition of power-house and turbine room.

Removal of the turbine room roof while maintaining power to the switch room below. The switch room and transformer for the new boiler-house remained operational during the project. These locations were protected by constructing steel frame canopies above and around to produce an air tight capsule.

A 33,000 volt line was of considerable concern. Located under the turbine room, the line had deteriorated over time and special care had to be taken to avoid excessive vibration in this area.

Tourism SA—Sink the Hobart.

McMahon Services were contracted to prepare the vessel for scuttling. This was an enormous task, as basically a fully operational war ship had to be stripped to make it a virtual skeleton. All environmental hazards required total removal.

We had to work on ways to make the vessel do what it was never designed to do...sink. The vessel was littered with specially cut holes to let water in and air out, when it was scuttled. The crews main task was to widen bulkheads and clearing pathways through the vessel so as divers had enough room to maneuver through safe thoroughfares.

McMahon Services have used Bobcat loaders and excavators for many years to carry out all the small curbing and bitumen preparation. Recent projects included the Port Noarlunga car-park. The Whitten Centre at Christies Beach, as well as Rotary Park which is a Christies Beach redevelopment including a children's playground area and all the associated paths, roads, and kerbing.

Also the Christies Beach boardwalk, a lot of it was done with three tonne excavators because it was tricky and only small machines could access the site.

'The Civil Remediation Division use the S650 size loader and 3 tonne excavators as their general all-purpose machines on most of our jobs,' said Steve Cugley. 'The loader is used for car-park preparation by preparing the base and levelling it out. For large car parks we bring in a grader, however, the loader can finish the car-park off to within 10 millimetres with a good operator and the help of a laser. A grader attachment for the Bobcat loader is being considered to avoid bringing in graders for car-park finishing.

'Also the loader is fitted with an auger attachment that drills piles 600 mm wide and 3 m deep by using a couple of extensions. That avoids bringing in large, expensive drilling plants,' Steve Cugley explained.

'We have a lot of plant and equipment and it has to be looked after and serviced, we have a good association with SA Lift and Loader. Their service people have been great. Right on the ball all the time. We get them to service all our Bobcat equipment,' said Steve Cugley.