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## **Case Studies of previous Drillings 20/1011**

Below is an example of some of the projects completed recently by SlimDril international

SlimDril's professional Guidance engineers are able to run **all types** of Wireline Steering tools, including the latest Drillguide gyro steering tool system

Since forming in 1982 and with over 100-years of combined experience in the HDD industry, SlimDril's personnel have been involved with some of the most challenging projects undertaken to-date. All Surveyors and Directional Drillers on staff are trained in the latest technology and are considered some of the best in the industry.

All Engineers are fully trained and have a minimum of 5 years field experience in drilling all over the world and are fully familiar with AutoCAD and HDD specific software

GST Denotes Gyros steering tool Job

MGS – Magnetic Steering tool Job

Houston Ship Canal – USA - GST  
High Accuracy

Length Parallel bores 850m & 930m

Project consisted of two parallel bores being installed in a highly congested pipeline/utility corridor, crossing under chemical plants, numerous pipelines and power lines. The Drillguide GST overcame the problems of severe Magnetic interference and the lack of space to place surface coils

Edinburgh UK -GST

Length 450 m  
Outfall in Rock

Project consisted of drilling an outfall in Rock with an 8" Mud motor and shock tool into the Forth River. The exit point was critical and the area had a fair amount of Magnetic interference

### St Nazaire France- MGS & GST

Length 700m Very Hard Rock

Project consisted of drilling a 700m outfall in very hard Granite using a 6 ¾” mud motor and shock tool, There was also a 60 degree horizontal turn to contend with and a +/- 1m exit point. The job was started with a conventional wire line steering tool, but had to be completed using the GST due to magnetic interference levels.

### Middlesbrough UK- GST

2 x Parallel 450m Crossings

Project consisted of drilling 2 parallel crossings under the River Tees and busy railway line in an area of high magnetic interference.

### Redcar UK - GST

3 x Parallel 1200m Outfalls

Project consisted of drilling 3 Parallel outfalls in an oil refinery in an area of high magnetic interference.

### Torquay UK – MGS

2 x 100m Gravity Sewers

Drilling through the side of a hill with a 3 ¾” mud motor keeping an angle of 1 degree looking down. This job required precision and drilling accuracy as the parallel bores were at 2m Centres and the Exit area was very tight. The Client wanted to maintain the grade along the bore and set exact inverts on both entry and exit

### Hungary - GST

950m drilling under the Danube

Drilling down to a depth of 30m in Hard Rock using mud motors and shock tools under the very wide river Danube

### Swanscome UK -GST

Length 650m

A very difficult drilling requiring high accuracy, beneath a busy road in a built up area with a horizontal turn and a change of elevation of +30m drilling with a Mud motor and shock tool. Exit point was in the tight vicinity of other utilities

### Egletons France -MGS

6 x drillings between 150 – 225m

Working on a GDF project in an area National park in the Dordogne drilling in Hard rock in thick protected Forests, some projects had both horizontal as well as vertical curves

### Prestatyn UK - MGS

3 x Parallel bores 200m in Sand

Drilling of 3 parallel bores from a car park to the beach with the two outer bores having horizontal curves.

### Republic of Ireland – MGS

15 Bores Ranging from 120 to 250m in Hard Rock

Some bores had both Horizontal as well as vertical profiles

### Thornton Cleavleys UK - MGS

175m Parallel bores in difficult ground – Gravels and Cobbles

Tricky project with tight Rights of way meaning the bores crossed each other requiring precise steering and planning

### Heysham UK -MGS

4 x 150m parrallelbores in Hard Rock

Challenging project with 20 degree horizontal curve as well as the vertical profile, drilling under a railway. The project required a set spacing of between 2.5 and 3m between the bores