



HORIZONTAL ENGINEERING AND DRILLING SERVICE

**SELECTED REFERENCE LIST 1996 – 2023
HDD & DIRECT PIPE PROJECTS**

Location	Country	Project	Application	HDD Rig	Pipeline parameters	Hole length	Hole diameter	Soil conditions	Type of fluid	Survey system	Year
Ravenna	Italy	Road, river	Gas	1000 kN	DN 900	414 m	1200 mm	Sand, silt	Bentonite Teqgel Special	Para Track II	2023
Bobrek	Poland	River Vistula	Cables	1000 kN	DN 200	877 m	311 mm	Sand, gravel, loam	Bentonite Teqgel Special / inhibited	Para Track II	2023
Fermo	Italy	Valley	Gas	2500 kN	DN 650	1262 m	864 mm	Clay, loam	Bentonite Teqgel Special / inhibited	Para Track II	2023
Alfhausen	Germany	Road	Cables	225 kN	4x DN 250	2x 150 m 2x 110 m	350 mm	Sand, sandy clay	Bentonite Bestbore	DCI	2023
Fermo	Italy	Valley	Cables	2500 kN	DN 200	1262 m	311 mm	Clay, gravel, loam	Bentonite Teqgel Special / inhibited	Para Track II	2023
Kent	England	Sea outfall	Cables	1000 kN	3x PE 400	3x420 m	660 mm	Clay, gravel	Bentonite	Gyro Opti Track	2023
Stepnica / Roztoka	Poland	Nature reserve	Gas	2500 kN 1000 kN	DN 500	2016 m	660 mm	Silty clay, silt, loam, sand, peat	Bentonite Teqgel Special, Prime Lube, inhibited	Para Track II + Gyro	2023
Lubicz Dolny	Poland	River Drwęca	Sewerage	280 kN	PE 450 PE 315	150 m	650 mm	Clay, sand, gravel	Bentonite Bestbore	UM Mag 8	2023



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Bogdanka	Poland	Railway	Sewerage	Direct Pipe	DN 1200	632 m	1340 mm	Sand	Bentonite Teqgel Special/ Prime Lube	Gyro	2023
Norderney	Germany	Sea outfall	Cables	2500 kN	4x DN 400 HDPE	4x1018 m	560 mm	Sand	Bentonite Teqgel Special	Gyro	2023
Kiebitzreihe	Germany	Road, river	Gas	4500 kN	PE 225 DN 800	2x434 m	311 mm 1118 mm	Sand, clay, gravel	Bentonite Teqgel Special	Gyro	2023
Sommerland	Germany	Road, canal	Gas	4500 kN	PE 225 DN 800	2x598 m	311 mm 1118 mm	Sand, clay	Bentonite Teqgel Special	Gyro	2023
Jaworzno	Poland	Road, canal	Optic fibre, Gas	2500 kN	PE 225 DN 700	2x482 m	311 mm 965 mm	sand	Bentonite Teqgel Special	Para Track II	2023
Police	Poland	canal	Gas	1000 kN	DN 500	888 m	660 mm	Peat, clay, sand	Bentonite Teqgel Special	Para Track II	2023
St. Margarethen	Germany	Road, river	Optic fibre Gas	4500 kN	PE 225 DN 800	423 m	406 mm 1092 mm	Peat, clay, sand	Bentonite Teqgel Special	Gyro Opti Track	2023
Redcar	England	Sea outfall	cables	2500 kN	DN 324 steel	2 x 1000 m	444,5 mm	rock	Bentonite Teqgel Special	Gyro + Para Track	2023
Police	Poland	Nature reserve	Gas	1000 kN	DN 500	574	660 mm	Clay, peat, sand	Bentonite Teqgel Special	Para Track II	2023
Piombino	Italy	valley	Gas	2500 kN	DN 150	1265 m	311	Clay, sand	Bentonite Teqgel Special	Gyro	2023



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Jaworzno	Poland	road	Optic fibre, Gas	2500 kN	PE 200 DN 700	2x365 m	311 mm 965 mm	Clay, peat	Bentonite Teqgel Special	Para Track II	2023
Montelupone	Italy	valley	Gas	2500 kN	DN 650	480 m	800 mm	clay	Bentonite Teqgel Special / Inhibited	Para Track II	2023
Piombino	Italy	River Cornia	Gas	2500 kN	2x DN 650	550 m	863 mm	Clay, sand	Bentonite Teqgel Special	Gyro	2023
Świebodzice	Poland	River Pełcznica	Gas	1000 kN	DN 300	570 m	510 mm	rock	Bentonite Teqgel Special	Para Track II	2022/ 2023
Piombino	Italy	River Cornia	Gas	2500 kN	DN 150	550 m	311 mm	Clay, sand	Bentonite Teqgel Special	Gyro	2022
Portsoy	Scotland	Sea outfall	cables	2500 kN	HDPE 560	2 x 400 m	760 mm	Rock	Bentonite Teqgel Special	Gyro + Para Track	2022 / 2023
Waren	Germany	Canal	Gas, cables	1000 kN	DN 200 PE 180	1202 m 629 m	375 mm 311 mm	sand	Bentonite Teqgel Special	Gyro	2022
Kolenfeld	Germany	River Sudaue	cables	1000 kN	HDPE 355 2xHDPE 50	224 m	560 mm	Wood, sandstone, gravel	Bentonite Teqgel Special	Gyro	2022
Weener	Germany	River EMS	cables	1000 kN	PE 400	455 m	560 mm	Sand, peat	Bentonite Teqgel Special	Gyro	2022
Karsko	Poland	River Płonia	Gas	2500 kN	DN 700	1405 m	1000 mm	Sand, clay	Bentonite Teqgel Special/ Inhibited	Para Track II	2022



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Karsko	Poland	River Płonia	Optic fibre	2500 kN	DN 250	1405 m	400 mm	Sand, clay	Bentonite Teqgel Special/ Inhibited	Para Track II	2022
Barßel	Germany	River Soeste	Gas	800 kN	DN 300 2x DN 50	425 m	457 mm	Sand, peat	Bentonite Teqgel Special	Gyro	2022
Sandomierz	Poland	Valley, road	Gas, optic fibre	1000 kN	DN 500 PE 200	542 m	914 mm	Shale rocks	Bentonite Teqgel Special	Para Track II	2022
Nordeerney	Germany	Sea outfall	Cables	2500 kN	4 x DN 400 HDPE	4x1080	560 mm	Sand	Bentonite Teqgel Special	Gyro	2022
Lubanowo	Poland	Tywa river	Gas	1000 kN	DN 700 steel	637 m	1066 mm	Sand, clay, gravel	Bentonite Teqgel Special	Para Track II	2022
Lubanowo	Poland	Tywa river	Optic fibre	1000 kN	DN 250 HDPE	637 m	311 mm	Sand, clay, gravel	Bentonite Teqgel Special	Para Track II	2022
Friesoythe	Germany	River	Biogas	800 kN	DN 100 steel	665 m 900 m	311mm	Sand	Bentonite Teqgel Special	Gyro	2022
Ururi	Italy	Valley	Gas	3000 kN	DN 660 steel	1300 m	864 mm	Clay, sand, gravel	Inhibited mud, Prime Lube	Para Track II	2022
Ciecierzycze	Poland	Warta river	Gas	Direct Pipe	DN 1000 steel	1405 m	1140 mm	Sand, stones, clay, granite	Bentonite Teqgel Special, Prime Lube	Gyro	2021-2022
Illertissen	Germany	Iller river	Gas	1000 kN 800 kN	DN 200 steel	537 m	457 mm	Clay, sand, active clay	Bentonite Teqgel Special	Gyro	2021



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Ostrołęka	Poland	Narew river	Sewerage	280 kN	DN 445 HDPE	240 m	650 mm	Sand, clay	Bentonite Teqgel Special	UM MAG 8	2021
Czyżew	Poland	Brok river	Optic fibre Gas	1000 kN	DN 225 HDPE DN 700 steel	2 x 679 m	311 mm 1066 mm	Clay, sand	Bentonite Teqgel Special	Para Track II	2021
Noss Head	Scotland	Sea outfall	Cables	2500 kN	DN 324 steel	3 x 575 m	445 mm	Rock	Bentonite Teqgel Special	Gyro + Para Track	2021
Nowogród	Poland	Narew river	Gas	Direct Pipe	DN 700 steel	868 m	765 mm	Sand, clay, silt	Bentonite Teqgel Special	Gyro	2021
Nowogród	Poland	Narew river	Optic fibre	1000 kN	DN 225 HDPE	868 m	311 mm	Sand, clay, silt	Bentonite Teqgel Special	Para Track II	2021
Karolinenkoog	Germany	Eider river, road	Cables	1000 kN 4500 kN	DN 400 HDPE	2 x 272 m 2 x 1465 m	560 mm	Sand, clay, gravel	Bentonite Teqgel Special	Gyro	2021
Pesaro	Italy	Valley	Gas	2500 kN	Dn 700 steel	600 m	1066 mm	Sand, clay	Bentonite Teqgel Special	Para Track II	2021
Ijmuiden	Netherlands	Dunes, Sea outfall	Optic fibre	1000 kN	DN 170 steel	850 m	311 mm	Sand	Bentonite Teqgel Special	Gyro	2021
Przeździecko - Lenarty	Poland	Mały Brok river	Optic fibre Gas	1000 kN	PE 225 Dn 700 steel	2x 531 m	311 mm 1016 mm	Clay, sand, gravel	Bentonite Teqgel Special	Para Track II	2021
Warszawa	Poland	Wisła river	Sewerage	Direct Pipe	DN 1200 steel	792 m	1325 mm	Sand, gravel, active clay	Bentonite Teqgel Special / Inhibited mud, Prime Lube	Gyro	2021



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Ulrome	England	Sea outfall	Cables	2500 kN	DN 324 steel	4 x 1405 m	445 mm	Clay, chalk, gravel	Bentonite Teqgel Special	Gyro + Para Track	2020/2021
Raczki	Poland	Rospuda river	Gas	1000 kN 2500 kN	DN 150 steel DN 700 steel	2 x 838 m	311 mm 1016 mm	Sand, clay, gravel	Bentonite Teqgel Special	Para Track II	2020/2021
Kraków	Poland	Road	Cables	280 kN	5x200 mm PE	4 x 280 m	650 mm	Sand, limestone, clay, gravel	Bentonite Teqgel Special	UM MAG 8	2020/2021
Warszawa	Poland	Wisła river	Sewerage	Direct Pipe	DN 1200 steel	792 m	1325 mm	Sand, gravel, active clay	Bentonite Teqgel Special / Inhibited mud, Prime Lube	Gyro	2020
Houstrup Landfall	Denmark	Nature Reserve	Gas	1500 kN	DN 800 steel	830 m	1220 mm	Sand, clay	Bentonite Teqgel Special	Gyro	2020
Nowy Dwór Mazowiecki	Poland	Wisła river	Cables	450 kN 1000 kN	HDPE 4x 250mm + 200 mm	820 m	800 mm	Sand	Bentonite Teqgel Special	Gyro	2020
Bucchianico	Italy	Valley	Gas	3000 kN	DN 600 steel	1600 m	800 mm	Clay	Bentonite Teqgel Special	Para Track II	2020
Ockenfels	Germany	Ockenfels river	Gas	1000 kN	DN 300 steel	410 m	560 mm	Sandy clay, gravel, sandstone, stones	Bentonite Teqgel Special	Gyro	2020
Dąbrowa Górnicza	Poland	Road	Gas	Direct Pipe	DN 1000 steel	390 m	1150 mm	Clay	Bentonite Teqgel Special, Prime Lube	Centerline	2020
Nantes	France	Loara River	Test	1000 kN	-	1110 m	311 mm	Clay, sand, peat	Bentonite Teqgel Special	Gyro	2020



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Alytus	Lithuania	Neris river	Gas	2500 kN	DN 700 steel	2 x 750 m	965 mm	Clay, sand, gravel	Bentonite Teqgel Special	Gyro	2020
Obeniai	Lithuania	Wilia River	Gas	2500 kN	DN 700 steel	516 m	965 mm	Clay, sand, gravel	Bentonite Teqgel Special	Gyro	2020
Hamm	Germany	Canal	Cables	1000 kN	PE 100	660 m	311 mm	Clay	Inhibited mud	Gyro	2020
Dąbrowa Górnicza	Poland	Road	Gas	Direct Pipe	DN 1000 steel	315 m	1150 mm	Clay	Bentonite Teqgel Special, Prime Lube	Centerline	2020
Steblewo	Poland	Wisła River	Gas	1000 kN 2500 kN	DN 508	1394 m	660 mm	Sand, clay	Bentonit Teqgel Special	Para Track II	2019
Banffshire	Scotland, UK	Sea outfall	Cables	1000 kN	PE 600	3 x 1010 m	810 mm	Psamitte, conglomerate sandstone	Bentonit Teqgel Special	Para Track II + Gyro	2019
Kamień Pomorski	Poland	Swampland	cables	1000 kN	3 x PE 180 1 x PE 110	913 m	720 mm	Clay, stones, sand, gravel	Bentonit Teqgel Special	Para Track II	2019
Valenza	Italy	Po River	Gas	1200 kN 2500 kN	DN 200	1704 m	375 mm	Clay, marl, limestone	Inhibited mud	Gyro	2019
Monte Urano	Italy	Road, valley	Gas	450-3000 kN	200, 610, 1070 mm	24 x 410-860 m	300, 800, 1400 mm	Clay, sand	Inhibited mud	Para Track II	2019
Maasvlakte	Netherlands	Sea outfall	Cables	2500 kN	PE 800	4 x 470 m	1120 mm	Sand, clay	Heavy weight mud based on Bentonite Teqgel Special	Gyro	2019



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Kąty Opolskie	Poland	Odra River	Gas	Direct pipe	DN 1000	590 m	1150 mm	Sandstone, clay	Bentonit Teqgel, Prime Lube	centerline	2019
Janówka	Poland	Wisła River	Cables	1000 kN	3 x PE 180 2 x PE 110	740 m	700 mm	Sand	Bentonit Teqgel Special	Para Track II	2019
Kędzierzyn Koźle	Poland	Canal	Gas	2500 kN	DN 200 DN 1000	810 m	1320 mm	Sand, active clay, gravel	Inhibited mud	Para Track II	2018-2019
Heidesee Eugal	Germany	Canal, road	Gaz	3000 kN 2500 kN	DN 250 DN 1400	1 x 825 m 2 x 825 m	380 mm 1890 mm	Sand, gravel, Stones	Bentonit Teqgel Special	Para Track II	2019
Żerań	Poland	Canal	Gas	1000 kN	DN 500 PE 160	673 m	813 mm	Sand, gravel, glacial till	Bentonit Teqgel Special	Para Track II	2019
Spreenhagen Eugal	Germany	Canal	Gas	3000 kN 2500 kN	DN 250 DN 1400	1 x 780 m 2 x 780 m	380 mm 1890 mm	Sand, gravel, stones	Bentonit Teqgel Special	Para Track II	2018-2019
Strachocina – Pogórska Wola	Poland	River, road	Optic fibre	1000 kN	PE 225	7 x 380-620 m	310 mm	Shales, sandstone, mudstone	Bentonit Teqgel Special	Para Track II	2018-2019
Glasgow	Scotland, UK	Clyde River	Gas	2500 kN	DN 450	920 m	610 mm	Andesite basalt / clay	Bentonit Teqgel Special	Gyro	2018
Halle	Germany	Saale River, park	Water	2500 kN	DN 200 DN 700	1117 m	910 mm	Gravel, stones, sandstone, clay	Inhibited mud	Gyro	2018
Schkopau	Germany	Weisse Elster River	Water	2500 kN	DN 400	1717 m	560 mm	Clay, sand, brown coal	Inhibited mud	Gyro	2017



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Maintal	Germany	Men river	Gas	800 kN	DN 150 steel DN 500 steel	2 x 340 m	310 mm 660 mm	Active clay	Inhibited mud	Gyro	2017
Den Helder Texel	Netherlands	Marsdiep	Water	2500 kN 3000 kN	DN 324 steel	4600 m	483 mm	Gravel and Sand	Bentonite Teqgel Special	Gyro	2017
Portgordon	United Kingdom	Sea outfall	Cables	2500 kN	DN 273 steel	4 x 1600 m	444,5 mm	Sandstone	Bentonite Teqgel Special, Teqbio XC	ParaTrack II and Gyro	2016-- 2017
Marten Comasca	Bulgaria Romania	Danube river	Gas	3500 kN 2500 kN	DN 500 steel	2079 m	660 mm	Karstic limestone	Bentonite Teqgel Special	ParaTrack II	2016
Marten Comasca	Bulgaria Romania	Danube river	Gas	3500 kN	DN 500 steel	2085 m	660 mm	Karstic limestone	Bentonite Teqgel Special	ParaTrack II	2016
Władysławowo	Poland	Sea outfall	Gas	2500 kN	DN 114 steel	1423 m	311 mm	Sand	Bentonite Teqgel Special	ParaTrack II	2016
Peterhead	Scotland, UK	Sea outfall	Cables	2500 kN	PE 400 mm	661 m	560 mm	Granite	Bentonite Teqgel Special	ParaTrack II	2016
Koblenz	Germany	Ren river	Gas, water	800 kN	PE 355 mm	2 x 419 m	508 mm	Clay	Inhibited mud	Gyro	2016
Oldenburg	Germany	Canal	Water	800 kN	PE 450 mm	1 x 280 m 1 x 160 m	610 mm	Very active clay	Inhibited mud	Gyro	2016
Wick	Scotland, UK	Sea outfall	Cables	2500 kN	DN 273 steel	4 x 475 m	319 mm	Sandstone, Mudstone	Bentonite	Tensor	2016



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Tours	France	Loara river	Cable, Optic fibre,	100 kN	3 x PE 200 mm 2 x PE 76 mm	670 m	710 mm	Sandstone	Bentonite Teqgel	ParaTrack II	2016
Kaliningrad	Russia	Pregolya river	Sewerage	600 kN	PE 560 mm	200 m	800 mm	Sand, gravel, stones	Bentonite Teqgel HD	DCI DigiTrak F5	2016
Poznań	Poland	Railway	Gas	450 kN	DN 300 steel DN 500 steel	210 m	800 mm	Sand, clay	Bentonite Teqgel Special	Tensor	2015
Cicero	Spain	Ria Escalante river	Gas	2500 kN	DN 800 steel	677 m	1120 mm	Limestone	Bentonite Teqgel Special	ParaTrack II ABIA	2015
Nowy Sącz	Poland	Dunajec River	Sewerage	800 kN	PE 630 mm	260 m	860 mm	Gravel, sandstone, shale	Bentonite Teqgel Special	DigiTrak	2015
Bernac-Debat	France	L'Adour River & Nature2000	Gas	2500 kN 800 kN	DN 350 steel	585 m	560 mm	Sand, clay, gravel, stones	Inhibited mud	ParaTrack II Intersect	2015
Roeser	Luxembourg	River	Cable, Optic fibre,	800 kN	1 x PE 140 mm 3 x PE 250 mm	2 x 764 m	610 mm	Clay, marlstone	Inhibited mud	ParaTrack II APWD	2015
Ribeira	Spain	Sea outfall	Sewerage	2500 kN	PE 460 mm	447 m	660 mm	Granite	Bentonite Teqgel Special	Tensor	2015
Kotowice	Poland	Odra River	Gas	1000 kN	DN 500 steel	807 m	660 mm	Very active clay	Inhibited mud	ParaTrack II APWD	2015
Hunterston	United Kingdom	Sea outfall	Cables	800 kN	PE 560 mm SDR 17	2 x 503 m	735 mm	Sand, gravel	Bentonite Teqgel Special	ParaTrack II APWD	2015



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Gdańsk	Poland	Dead Wisła River	Optic fibre, cable	315 kN	4 x PE 160 mm	437 m	530 mm	Sand, gravel, stones	Primegell & Primeplex	Tensor	2015
Łomianki Dolne	Poland	Wisła River	Gas	450 kN	DN 250 steel	975 m	500 mm	Sand, clay, active clay	Bentonite Bestbore	Tensor	2014 2015
London	United Kingdom	Canal, highway, railway	Cables	3000 kN	3 x PE 180 mm 1 x PE 125 mm	4 x 834 m	500 mm	Active Clay	Inhibited mud	Gyro APWD	2014
Nieporęt	Poland	Żerański Canal	Oil	2200 kN	DN 800 steel	258 m	1100 mm	Sand, gravel	Bentonite Teqgel Special	Tensor	2014
Płock	Poland	Wisła River	Sewerage	900 kN	2 x PE 250 mm 1 x PE 125 mm	842 m	650 mm	Sand, gravel, Clay	Bentonite Teqgel Special	Tensor	2014
Hamswehrum	Germany	Sea outfall	Cable	3000 kN	PE 450 mm	4 x 590 m	585 mm	Peat, sand, clay	Bentonite Teqgel Special	Gyro APWD	2014
Karczewie	Poland	Rega River	Gas	2500 kN	DN 700 steel	910 m	1066 mm	Peat, sand, gravel, wood	Bentonite Teqgel Special	ParaTrack II APWD	2014
Witnica	Poland	Nature 2000	Gas	450 kN	DN 200 steel	779 m	450 mm	Peat, sand, gravel	Bentonite Teqgel Special	Tensor	2014
Budapest	Hungary	Nature 2000	Gas	2500 kN	DN 800 steel	465 m	1066 mm	Clay	Bentonite Teqgel Special	ParaTrack II	2013
Klaipeda	Lithuania	Sea outfall and under the sea bay	Cables	2500 kN	DN 320 steel	2 x 850 m 2 x 1640 m	457 mm	Sand, gravel, wood	Bentonite Teqgel Special	Gyro	2013



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Kamień Mały	Poland	Nature 2000	Gas	450 kN	DN 200 steel	880 m	500 mm	Sand, gravel, peat	Bentonite Teqgel Special	Tensor	2013
Czarny Rów	Poland	Czarny Rów River	Gas	1000 kN	DN 700 steel	360 m	1150 mm	Sand, gravel, clay	Bentonite Teqgel Special	Eclipse	2013
Radotki	Poland	Skrwa River	Gas	2500 kN	DN 700 steel	452 m	1066 mm	Active Clay, gravel, stones	Inhibited mud	ParaTrack	2013
Szpiegowo	Poland	Skrwa River	Gas	1000 kN	DN 700 steel	323 m	1066 mm	Clay, Sand, gravel	Bentonite Teqgel Special	ParaTrack	2013
Gandersum	Germany	Ems River	Cables	3000 kN	DN 220 steel	2 x 1320 m	311 mm	Sand	Bentonite Teqgel Special	Gyro	2013
Hamswehrum	Germany	Sea outfall	Cables	2500 kN	PE 406 mm	592 m	508 mm	Sand, Clay, wood	Bentonite Teqgel Special	Gyro	2013
Norderney Grohdepolder	Germany	Sea outfall	Cables	1000 kN	PE 457 mm	448 m	584 mm	Sand	Bentonite Teqgel Special	Para Track	2013
Hilgenriedersiel	Germany	Sea outfall	Cables	3000 kN	PE 457 mm	2 x 1270 m	584 mm	Sand, wood	Bentonite Teqgel Special	ParaTrack II	2013
Świnoujście	Poland	Canal	Cables	178 kN	PE 219 mm	521 m	350 mm	Sand	Bentonite Teqgel Special	ParaTrack II	2013
Witnica	Poland	Swamps	Gas	500 kN	DN 220 steel	500 m	450 mm	Peat, sand, gravel	Bentonite Teqgel Special	Subsite	2013



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Tavo	Italy	River, highway	Gas	2500 kN	1219 mm steel	720 m	1575 mm	Sand, clay, gravel	Bentonite Teqgel Special	Paratrack	2012 2013
Dabroszyn	Poland	Swamps	Gas	700 kN	DN 220 steel	1161 m	450 mm	Peat, sand, gravel	Bentonite Teqgel Special	Tensor	2012 2013
San Cibrao	Spain	Drilling to sea	Sewerage	3500 kN	HDPE 315 mm	657 m	413 mm	Granite	Bentonite Teqgel Special	Paratrack	2012
Muskiz	Spain	Highway, river	Gas	3500 kN	DN 102 steel	628 m	311 mm	Limestone, shale	Bentonite Teqgel Special	Paratrack	2012
Muskiz	Spain	Highway, river	Gas	3500 kN	DN 660 steel	626 m	864 mm	Limestone, shale	Bentonite Teqgel Special	Paratrack	2012
Gorliz	Spain	Mountain, sea outfall	Sewerage	3500 kN	HDPE 710mm	978 m	965 mm	Limestone	Bentonite Teqgel Special	Tensor	2012
Gorliz	Spain	Mountain, sea outfall	Sewerage	3500 kN	HDPE 800mm	461 m	1067 mm	Limestone	Bentonite Teqgel Special	Tensor	2012
Aalborg	Denmark	Limfjord	Cables	2500 kN	3 x PE 280 mm 2 x PE 75 mm	1314 m	711 mm	Sand	Bentonite Teqgel Special	Gyro	2012
Vigneto	Italy	Vineyard	Gas	2500 kN	Steel 1220m	615 m	1470 mm	Sand, clay, wood	Bentonite Teqgel Special	Paratrack	2012
Vercelli	Italy	Sesia River	Gas	2500 kN	Steel 250 mm	1206 m	376 mm	Sand, clay, wood	Bentonite Teqgel Special	Paratrack	2011



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Borek	Poland	Warta river	Gas	2500 kN	Steel pipes 1 x 329 mm 1 x 114 mm	1001 m	630 mm	Sand, gravel, wood	Bentonite Teqgel Special	Paratrack	2011
Poznań	Poland	Warta river	Sewage pipeline	2500 kN	PE 800 mm	2 x 480 m	1000 mm	Clay, sand	Bentonite Teqgel Special	Paratrack	2011
Norderney	Germany	Sea outfall	Cables	800 kN	PE 455 mm	4 x 500 m	580 mm	Sand, shales	Bentonite Teqgel Special	Paratrack 2	2011
Hilgenriedersiel	Germany	Sea outfall	Cables	2500 kN	PE 455 mm	2 x 1155 m	580 mm	Sand	Bentonite Teqgel Special	Paratrack 2	2011
Piza	Italy	Era River	Gas	2500 kN	DN 1220 Steel	485 m	1470 mm	Clay, gravel	Bentonite Teqgel Special	Paratrack 2	2011
Cascina	Italy	Cascina River	Gas	2500 kN	DN 1220 Steel	500 m	1470 mm	Clay	Inhibited mud	Paratrack 2	2011
Blankenmoor	Germany	NordOstsee Kanal	Cables	800 kN	DN 400 Steel	5 x 620 m	550 mm	Clay, gravel	Bentonite Teqgel Special	Gyro	2011
Salaspils	Latvia	Daugava River	Gas	2500 kN	DN 700 Steel	1533 m	965 mm	Dolomite, marlstone	Bentonite Teqgel Special	Paratrack 2	2010 2011
Cieszyn	Poland	Olza river	Gas	2500 kN	Steel 710/508mm	522 m	915 mm	Sandstone, shale	Bentonite Teqgel Special	Paratrack 2 APWD	2010
Muszyna	Poland	Poprad river	Cables	160 kN	DN 400 Steel	200 m	550 mm	sand, gravel	Bentonite Teqgel Special	Eclipse	2010



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Nordeney	Germany	Sea outfall	Cables	800 kN	HDPE 455 mm	2 x 473 m	580 mm	sand	Bentonite Teqgel Special	Paratrack 2 APWD	2010
Vojvodina	Republic of Serbia	Tisa river	Gas	2500 kN	Steel 508 mm	995 m	660 mm	sand	Bentonite Teqgel Special	Paratrack 2 APWD	2009
Barreiro	Portugal	See bay	Gas	2500 kN	Steel 150 mm Steel 250 mm	2 x 1840 m	445 mm	sand	Bentonite Teqgel Special	Paratrack 2 APWD	2009
Serby Stare	Poland	Odra River	Gas, optic fibre	400 kN	Steel 355 mm, HDPE 160 mm	824 m	635 mm	sand	Bentonite Teqgel Special	Tensor	2009
Venice	Italy	Sea outfall	Oil	2500 kN	Steel 508 mm	1226 m	660 mm	sand, clay	Bentonite Teqgel Special	Gyro	2009
Kent	United Kingdom	Fields	Gas	3500 kN	Steel 1222 mm	760 m	1472 mm	chalk	Bentonite Teqgel Special	Tensor	2009
Newport	United Kingdom	Fields, Railway	Gas	2500 kN	Steel 450 mm	1604 m 1622 m	660 mm	clay, mudstone	Inhibited mud	Tensor	2009
Roeulx	France	Canal, Railway	Gas	2500 kN	Steel 508 mm	970 m	660 mm	chalk, marl	Bentonite Teqgel Special	Paratrack APWD	2008 2009
Biarritz	France	City	Gas	1000 kN	Steel 273 mm	650 m	450 mm	limestone	Bentonite Teqgel Special	Tensor	2008
Opole	Poland	Canal	Sewerage	450 kN	HDPE 800 mm	220 m	1050 mm	sand, marl, gravel	Bentonite Teqgel Special	Tensor	2008



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Czestochowa	Poland	Warta river	Gas	250kN	Steel 508 mm	230 m	750 mm	sand	Bentonite Teqgel Special	DigiTrak	2008
Stellendam	Netherlands	Canal, highway	Water	2500 kN	Steel 610 mm	1706 m	800 mm	sand	Bentonite Teqgel Special	Paratrack APWD	2008
Hamburg	Germany	Canal	Gas	1300 kN	HDPE 630 mm	550 m	800 mm	Sand	Bentonite Teqgel Special	Gyro	2008
Dordrecht	Netherlands	Kil river	Water	3000 kN	Steel 1422 mm	704 m	1822 mm	Sand, peat, sandstone	Bentonite Teqgel Special	Gyro	2008
Zestaphoni	Georgia	Vineyard	Oil	1000 kN	Steel 570 mm	535 m	750 mm	Sandstone	Bentonite Teqgel Special	Tensor	2007
Stupno	Poland	Stupianka river	Oil	1500 kN	Steel 813 mm	450 m	1050 mm	sand, clay	Bentonite Teqgel Special	Tensor	2007
Milam	Italy	Po river	Oil	2500 kN	Steel 273 mm	2001 m	480 mm	sand, gravel	Bentonite Teqgel Special	Paratrack APWD	2007
Bilbao	Spain	City	Water	2500 kN	Steel 750 mm	2 x 380 m	1000 mm	shale	Bentonite Teqgel Special	Paratrack	2007
Pamplona	Spain	Slope	Gas	1000 kN	Steel 355 mm	1008 m	560 mm	clay, clay stone	Inhibited mud	Tensor	2007
Szczecin	Poland	Odra river	Sewerage	2500 kN	PE 1020 mm	8 x 460 - 650 m	1220 mm	Sand	Bentonite Teqgel Special	Tensor	2006 2008



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Marseille	France	City	Oil	1300 kN	Steel 400 mm	675 m	700 mm	limestone	Bentonite Teqgel Special	Tensor	2006
Kędzierzyn Koźle	Poland	Odra river	Gas	400 kN	Steel 508 mm	240 m	750 mm	sand	Bentonite Teqgel Special	Tensor	2006
Gavi	Italy	Vineyard	Gas	1000 kN	Steel 408 mm	670 m	660 mm	marl	Inhibited mud	Tensor	2006
Jork	Germany	Highway	Gas	1000 kN	Steel 550 mm	280 m	850mm	stones, peat, sand	Bentonite Teqgel Special	Tensor	2006
Waterford	Ireland	River	Sewerage	3000 kN	HDPE 800 mm	4 x 550 – 600 m	1050 mm	quartzite	Bentonite Teqgel Special	Tensor	2006
Vigevano	Italy	Ticino river	Multiduct	3000 kN	Steel 273 /220/113 mm	1585 m	660 mm	sand, gravel, stones	Bentonite Teqgel Special	Paratrack APWD	2006
Singlewell	United Kingdom	Highway	Gas	1500 kN	Steel 750 mm	445 m	1000 mm	limestone	Bentonite Teqgel Special	Tensor	2006
Bristol	United Kingdom	River	Gas	1500 kN	Steel 700 mm	300 m	1000 mm	coal, sandstone	Bentonite Teqgel Special	Tensor	2006
Ravenna	Italy	Garda river	Gas	2500 kN	Steel 610 mm	2 x 350 m	900 mm	clay	Inhibited mud	Tensor	2005
Hendaye	France	City	Gas	1300 kN	Steel 610 mm	590 m	800 mm	limestone	Bentonite Teqgel Special	Tensor	2005



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Bologna	Italy	Eiver	Gas	2500 kN	Steel 750 mm	360 m	1000 mm	clay	Inhibited mud	Tensor	2005
Kyngs Lynn	United Kingdom	River	Gas	1500 kN	Steel 913 mm	2 x 380 m	1160 mm	clay, claystone	Inhibited mud	Tensor	2005
St. Margarethen	Germany	Elbe river	Chemical	3000 / 1300 kN	Steel 350 mm	2626 m	460 mm	sand	Bentonite Teqgel Special	Paratrack MITM	2005
Berlin	Germany	River	Multiduct	1000 kN	10 x PE 160 mm	470 m	800 mm	sand	Bentonite Teqgel Special	Tensor	2005
Rysum	Germany	Ems river	Gas	2500 kN	Steel 813 mm	935 m	1220 mm	sand, clay	Bentonite Teqgel Special	Tensor	2005
Sewilla	Spain	Gwadalkiwir river	Gas	800 kN	Steel 750 mm	340 m	1100 mm	sand, gravel	Bentonite Teqgel Special	Tensor	2004
Gdańsk	Poland	Vistula river	Gas	400 kN	Steel 610 mm	265 m	900 mm	sand	Bentonite Teqgel HD	Tensor	2004
Borgo val di Taro	Italy	Mountain 150m diff. elev.	Gas	2500 kN	Steel 408 mm	800 m	600 mm	Sandstone	Bentonite Teqgel Special	Tensor	2004
Terneuzen	Netherlands	Bay	Multiduct	3000 kN	Multiduct	2 x 1000 m	900 mm	sand	Bentonite Teqgel HD	Paratrack APWD	2004
Wrocław	Poland	Odra river	Gas	450 kN	HDPE 355 mm	2 x 570 m	550 mm	sand	Bentonite Teqgel HD	Tensor	2004



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Zielona Góra	Poland	Bobr river	Gas	1000 kN	Staal 408 mm	700 m	600 mm	sand, gravel	Bentonite Teqgel HD	Tensor	2004
Zielona Góra	Poland	Odra river	Gas	1000 kN	Steel 408 mm	850 m	600 mm	sand, gravel	Bentonite Teqgel HD	Tensor	2004
Berlin	Germany	Canal	Gas	1300 kN	Steel 710 mm	300 m	950 mm	sand	Bentonite Teqgel HD	Tensor	2004
Toruń	Poland	Vistula river	Sewerage	400 kN	HDPE 400 mm	2 x 600 m	600 mm	sand, clay	Bentonite Teqgel HD	Tensor	2004
Setubal	Portugal	Rio Sado	Gas	3000 kN	Steel 812 mm	1600 m	1120 mm	clay, sand	Bentonite Teqgel HD	Paratrack	2003
Komarno	Slovakia	Vah river	Gas	500 kN	Steel 350 mm	420 m	500 mm	sand, gravel	Bentonite Teqgel HD	Tensor	2003
Setubal	Portugal	Shore P5-P4	Gas	2500 kN	Steel 813 mm	1250 m	1120 mm	sand, gravel	Bentonite Teqgel HD	Paratrack	2003
Setubal	Portugal	Shore P2-P3	Gas	2500 kN	Steel 813 mm	1420 m	1220 mm	sand, gravel	Bentonite Teqgel HD	Paratrack	2003
Wrocław	Poland	Odra river	Gas	450 kN	HDPE 355 mm	2 x 570 m	550 mm	sand	Bentonite Teqgel HD	Tensor	2003
Setubal	Portugal	Offshore P3-P4	Gas	3000 kN	Steel 813 mm	1325 m	1220 mm	sand, clay	Bentonite Teqgel HD	Paratrack	2003



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Barlinek	Poland	Swamp	Gas	450 kN	Steel 508 mm	530 m	900 mm	gravel, stones, sand	Bentonite Teqgel HD	Tensor	2003
Gniew	Poland	Vistula river	Gas	1300 /400 kN	Steel 813 mm	650 m	1200 mm	clay, sand, stones	Bentonite Teqgel HD	Tensor	2003
Płock	Poland	Vistula river	Gas	400 kN	Stal 408 mm	790 m	720 mm	clay	Bentonite Teqgel HD, polymers	Tensor	2002
Płock	Poland	Vistula river	Cables	400 kN	HDPE 200 mm	790 m	400 mm	clay	Bentonite Teqgel HD, polymers	Tensor	2002
Warszawa	Poland	Vistula river	Gas	400 kN	Steel 408 mm	840 m	720 mm	sand	Bentonite Teqgel HD	Tensor	2002
Zakroczym	Poland	Vistula river	Cables	450 kN	HDPE 225 mm	760 m	400 mm	sand, gravel	Bentonite Teqgel HD	Tensor	2002
Sulęcín	Poland	Forrest	Gas	220 kN	Steel 408 mm	320 m	650 mm	sand	Bentonite Teqgel HD	Tensor	2002
Wrocław	Poland	Odra river	Gas	450 kN	HDPE 355 mm	2 x 570 m	550 mm	sand	Bentonite Teqgel HD	Tensor	2002
Rzeszow	Poland	Wislok river	Gas	400 kN	Steel 220 mm	835 m	600 mm	clay, sand	Bentonite Teqgel HD, polymers	Tensor	2002
Barlinek	Poland	Swamp	Gas	400 kN	Steel 508 mm	670 m	800 mm	sand, clay	Bentonil Teqgel HD	Tensor	2001



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Koluszki	Poland	Forrest	Cables	320 kN	HDPE 220 mm	549 m	300 mm	sand, gravel	Bentonite Teqgel HD	Subsite	2001
Ostrowsko	Poland	Warta river	Oil	320 kN	HDPE 315 mm	570 m	540 mm	sand, gravel, clay	Bentonite Teqgel HD	Tensor	2001
Grudziądz	Poland	Vistula river	Cables	450 kN	HDPE 225 mm	660 m	480 mm	sand, gr	Bentonite Teqgel HD	Tensor	2001
Ostrowsko	Poland	Canal	Oil	320 kN	Stal 408 mm	240 m	670 mm	sand, gravel	Bentonite Teqgel HD	Subsite	2001
Kamień Pomorski	Poland	Wolczenica river	Gas	400 kN	Steel 225 mm	1067 m	500 mm	peat, sand, stones	Bentonite Teqgel HD	Tensor	2000
Gdańsk	Poland	Vistula river	Sewerage	320 kN	HDPE 250 mm	540 m	500 mm	sand	Bentonil HDG	Tensor	2000
Wrocław	Poland	Odra river	Gas	450 kN	HDPE 355 mm	2 x 570 m	550 mm	sand	Bentonil HDG	Tensor	2000
Rybcice	Poland	Odra river	Gas	2500 kN	Steel 408 mm	840 m	800 mm	sand, gravel	Bentonil HDG	Tensor	2000
Żywiec	Poland	Sola river	Gas	400 kN	HDPE 315 mm	165 m	315 mm	gravel, stones, sand	Bentonil HDG	Tensor	1999
Kędzierzyn Koźle	Poland	Odra river	Gas	220 kN	HDPE 400 mm	200 m	650 mm	sand	Bentonil HDG	Digi Trak	1999



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Piaski	Poland	Lake	Gas	400 kN	Steel 508 mm	430 m	750 mm	sand	Bentonil HDG	Tensor	1999
Krasnystaw	Poland	Wieprz river	Gas	400 kN	Steel 508 mm	200 m	750 mm	marl, sand	Bentonil HDG	Tensor	1999
Opole	Poland	Canal	Water	320 kN	HDPE 560 mm	260 m	800 mm	marl, sand	Bentonil HDG	Subsite	1999
Brodskie	Slovakia	Morava river	Gas	400 kN	Steel 736 mm	300 m	1050 mm	clay, gravel	Bentonil HDG	Tensor	1999
Decin	Czech Republic	Elbe river	Sewerage	400 kN	HDPE 630 mm	6 x 180-220 m	900 mm	marl, clay, stones	Bentonil HDG	Tensor	1999
Głuchołazy	Poland	Odra river	Gas	450 kN	HDPE 355 mm	2 x 570 m	550 mm	sand	Bentonil HDG	Tensor	1999
Nysa	Poland	Nysa river	Water	220 kN	HDPE 355 mm	165 m	600 mm	clay, sand, gravel	Bentonil HDG	Digi Trak	1999
Berlin	Germany	Dahme river	Gas	3000 kN	Steel 1220 mm	871 m	1650 mm	sand	Bentonil HDG	Tensor	1998
Opole	Poland	Odra river	Gas	220 kN	HDPE 400 mm	210 m	700 mm	marl	Bentonil HDG	Digi Trak	1998
Opole	Poland	Canal	Gas	220 kN	HDPE 450 mm	240 m	700 mm	marl	Bentonil HDG	Digi Trak	1998



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Warszawa	Poland	Vistula river	Cables	1300 kN	Steel 250 mm	1106 m	500 mm	sand	Bentonil HDG	Tensor	1998
Warszawa	Poland	Vistula river	cables	1300 kN	Steel 250 mm	1070 m	500 mm	sand	Bentonil HDG	Tensor	1998
Sieradz	Poland	Warta river	Gas	400 kN	Steel 408 mm	400 m	550 mm	limestone	Bentonil HDG	Tensor	1998
Kęty	Poland	Forrest	Water	220 kN	HDPE 400 mm	460 m	600 mm	clay	Bentonil HDG	Digi Trak	1998
Włocławek	Poland	City	Gas	400 kN	Steel 508 mm	430 m	700 mm	sand, clay	Bentonil HDG	Tensor	1998
Mohacz	Hungary	Dunau river	Cables	800 kN	HDPE 180 mm	810 m	300 mm	sand, clay	Bentonil HDG	Tensor	1998
Wołgograd	Russia	Wołga – Don Canal	Gas	3000 kN	Steel 1422 mm	750 m	1800 mm	sand	Bentonil HDG	Tensor	1997
Biała Góra	Poland	Vistula river	Gas	2500 kN	Steel 408 mm	1230 m	600 mm	clay, sand, marl	Bentonil HDG	Tensor	1997
Nowy Sącz	Poland	Dunajec river	Cables	700 kN	HDPE 220 mm	240 m	300 mm	sandstone	Bentonil HDG	Tensor	1997
Zagrzeb	Croatia	Sava river	Gas	400 kN	Steel 408 mm	530 m	700 mm	gravel	Bentonil HDG	Tensor	1997



HORIZONTAL ENGINEERING AND DRILLING SERVICE

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Szczecin	Poland	Odra river	Energy	400 kN	HDPE 315 mm	500 m	500 mm	sand	Bentonil HDG	Tensor	1997
Sandomierz	Poland	Vistula river	Gas	400 kN	Steel 323 mm	2 x 370 m	450 mm	clay, shale	Bentonil HDG	Tensor	1997
Krosno Odrzańskie	Poland	Odra river	Cables	50 kN	HDPE 125 mm	300 m	200 mm	sand	Bentonil HDG	Digi Trak	1997
Toruń	Poland	Vistula river	Gas	2500 kN	Steel 508 mm	550 m	700 mm	clay, sand	Bentonil HDG, polymers	Tensor	1996
Tczew	Poland	Vistula river	Cables	2500 kN	HDPE 140 mm	1200 m	280 mm	sand	Bentonil HDG	Tensor	1996