

## 8.8. Hydraulic Modelling Shape File Data Requirements

Layer	Feature class	No.	Parameter name	Field name	Unit	Method	Decimal Places (Field Scale)	Field type	Data type	Apply to Subsoil	Remarks
NODES	Points	1	Label	Label	text	RM&HD	-	string	I/O	Yes	
		2	Diameter	Dia	m		3			s	
		3	B size (if rectangular)	B	m		4				
		4	W size (if rectangular)	W	m		5				
		5	Elevation (Ground)	elev_grd	m		3	double	I	Yes	
		6	Elevation (Invert)	elev_inv	m						
		7	Elevation (Rim)	elev_rim	m						
		8	External inflow (e.g. from exist. net.)	inflow	m3/s	4					
		9	Hydraulic Grade Line (In)	HGL_in	m	RM	3		O		
		10	Hydraulic Grade Line (Out)	HGL_out	m						
		11	Type (manhole/catch basin/inlet...)	Type	text	RM&HD	10	string	I		
		12	Is Flooded?	Is_flood	0,1	HD	1	integer	O		0=No, 1=Yes
		13	Flood volume	flood_vl	m3		3	double			
		14	Head(HGL)	Head	m	RM&HD			I	Yes	Does it exist? 0=No, 1=Yes
		15	Existing?	Existing	0,1	RM&HD	1	integer			Is it upgraded? 0=No, 1=Yes
		16	Upgrade?	Upgrade	0,1						
		17	Phase	Phase	-		-	string			
PIPES	Lines	1	Label	Label	text	RM&HD	-	string	I/O	Yes	
		2	Start Node (Label)	Up_nod	text		-				
		3	Stop Node (Label)	Dn_nod	text		-				
		4	Diameter (Internal)	Dia	m		3	double			
		5	cross-section shape	Shape	text		10	string	I		optional
		6	Cross-section height	CH	m		3	double			
		7	Cross-section width	CW	m						
		8	Number of barrels	barrel	-			1	integer		