table name	attribute	type	mandatory	default	unit	comment
2411						Boundary condition for 1D connection nodes.
v2_1d_boundary_co	id	t-1	*			Boundaries can only be placed on nodes connected to a single channel or pipe.
	connection_node_id	serial integer	*			Leave blank. Is filled automatically. Unique connection node id.
	connection_node_id	integer				Boundary type.
						Boundary type. 1: waterlevelbd
					1: m above	2: velocitybnd
					datum	3: discharge boundary
	boundary_type	integer	*		2: m/s 3: m3/s	For types 2 and 3 the channel direction determines sign of the input value. If the boundary is placed on the channel endpoint, positive values mean water is being extracted from the model.
	boundary_type	integer			3. 1113/3	Format:
						min,value
						min,value
						Between time succesive lines values are interpolated. (note that during 1 timestep the values is still constant) - Leave no trailing spaces or empty rows at the end of your file.
						- Make sure there is no space between min, value
						- In case of multiple boundaries in 1 model: make sure they all have the same number of timeseries rows with exactly the same temporal interval.
						- In case of multiple boundaries in 1 model: also start- and end time of all timeseries must be the same In QGIS it is not posible to directly type enter/newline characters into a table. To enter this format into spatialite you must either use a text editor to compose your
					min,value	- III Qual it is not possible for inetary type enter/newmine characters into a table. To enter this format into spatiality you must enter use a text enter to compose you timeseries through the field calculator using 'n' to add a new line.
	timeseries	text	*		min,value	
v2_1d_lateral						Lateral for 1D connection nodes
	id	serial	*			Leave blank. Is filled automatically.
	connection_node_id	integer	*			Unique connection node id.
						Format:
						min,value min,value
						Between time succesive lines values are interpolated. (note that during 1 timestep the values is still constant)
						- Leave no trailing spaces or empty rows at the end of your file.
						- Make sure there is no space between min, value - In case of multiple laterals in 1 model: make sure they all have the same number of timeseries rows with exactly the same temporal interval.
						- In case of multiple laterals in 1 model: also start- and end time of all timeseries must be the same.
						- In QGIS it is not posible to directly type enter/newline characters into a table. To enter this format into spatialite you must either use a text editor to compose your
	timeseries	text	*		min,m3/s	timeseries through the field calculator using '\n' to add a new line.
v2_2d_boundary_co	1	text			11111,1113/3	Boundary condition for 2D model edge (must be on edge of DEM file)
,,	id	serial	*		-	Leave blank. Is filled automatically.
	display_name	text	*			Name field, no constraints
						1: waterlevelbnd
						2: velocitybnd
						3: discharge boundary 5: Sommerfeld rand (waterlevel slope)
						5. Summerieu rand (watereversiope)
						schematisation requirements:
					1: m above	- the boundary linestring must be placed on the edge of the DEM (outer calculation cells)
					datum 2: m/s	- the boundary linestring must intersect at least two calculation cells - the complete boundary Linestring must be on on active edge (read: on data pixels). If (a part of) the boundary is on nodata pixels then the boundarie is ignored
					3: m3/s	- the boundary linestring may be slightly skewed (maximum 6 pixels skewed)
	boundary_type	integer	*		5: -	- the boundary also looks at the cross section area at the outside of the model (so the outer pixels at the dem) whether flow is possible
						Format:
						min,value min,value
						Between time succesive lines values are interpolated. (note that during 1 timestep the values is still constant)
						- Leave no trailing spaces or empty rows at the end of your file.
						- Make sure there is no space between min, value - In case of multiple boundaries in 1 model: make sure they all have the same number of timeseries rows with exactly the same temporal interval.
						- In case of multiple boundaries in 1 model: also start- and end time of all timeseries must be the same.
					min,value	- In QGIS it is not posible to directly type enter/newline characters into a table. To enter this format into spatialite you must either use a text editor to compose your
	timeseries	text	*		min,value	timeseries through the field calculator using '\n' to add a new line.
v2_2d_lateral						Lateral discharge for location on 2D
	id	serial	*			Leave blank. Is filled automatically.
	type	integer	•			1: surface

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code				*		
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calculation_type						101 = stand-alone channel
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dist_calc_points double * m Distance between calculation points on linesegments. zoom_category integer zoom_cate						105 = double connected channel
Visibility in live site. — It is lowest for smallest level (i.e. ditch) and 5 for highest (rivers)		calculation_type	integer	*		Embedded or connected can only be used where a DEM is present. Any start-, end- or calculation node along a channel with these types may not lay outside the DEM.
connection_node_start_id integer * Start node for channel line. Must be present in v2_connection_nodes and the channel geometry startpoint must be snappen on the given connection node. Connection_node_end_id integer * Ind node for channel line. Must be present in v2_connection_nodes and the channel geometry endpoint must be snappen on the given connection node. Location and ID of nodes between channels, pipes and structures. Make sure that: I) When removing a node or changing its ID, make sure the node is not referred to in any of the other tables, II) When moving a node, make sure to also move any channels and culverts that are snapped to the node, III) make sure to node. (Accounted to in any of the other tables, III) When moving a node or changing its ID, make sure the node is not referred to in any of the other tables, III) When removing a node, make sure to also move any channels and culverts that are snapped to the node, III) make sure to no node; left without any connection, and IV) make sure to also move any channels and culverts that are snapped to the node, III) make sure to node; III) When removing a node or changing its ID, make sure the Location modes. Location modes in the channel geometry startpoint must be snappen on the given connection node. Location and to Profit of the channels (site III) when removing a node or changing its ID, make sure the Location and sure to the channel (site III) when removing a node or changing its ID, make sure the Location and to referred to in any of the other tables, II) When removing a node or changing its ID, make sure the Location and sure to the channel (site III) when removing a node or changing its ID, make sure the Location and sure tree and sure to also move any channels Location and sure the channel (site III) when removing a node or changing its ID, make sure the Location and sure tree and sure the channel (site III) when removing a node or changing its ID, make sure the Location and sure tree as no make the channel (site III) whe		dist_calc_points	double	*	m	Distance between calculation points on linesegments.
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id serial * - Leave blank. Is filled automatically.			double		(NL: NAP)	·
·	v2_cross_section_definit					
code text * Name field, no constraints					-	
		code	text	*		Name field, no constraints

					1 = rectangle; specify width and height (profile/upper side is automatically closed) 2 = circle; specify width (profile/upper side is automatically closed) 3 = egg; specify space-sperated width and height intervals. Between intervals the profile is interpolated. Can be closed by stating width 0 at heighest heigth 5 = tabulated rectangle; specify space-seperated width and height intervals. Between intervals the profile is defined straight. Can be closed by stating width 0 at heighest heigth
					6 = tabulated trapezium; specify space-sperated width and height intervals. Between intervals the profile is interpolated. Can be closed by stating width 0 at heighest
	shape	integer	*		heigth
	width	text	*	-	For tabulated fill in space-separated widths of profile. Fill in diameter for circle.
	height	text	**	m	For tabulated fill in space-separated heights of profile. All height values must be larger than zero, except for the first value **Mandatory for types 3, 5 & 6.
					Location of cross-section for channels. All cross-section locations must be snapped to a channel vertex.
v2_cross_section_location			*		May not be placed on or within 1 cm within start- or endnode.
	id	serial	*		Leave blank. Is filled automatically.
	code	text	· ·		Name field, no constraints
	channel_id	integer	*		Reference to v2_channel id. Channel id must match the channel on which the location lies.
	definition_id	integer	*		Reference to v2_cross_section_definition id. Must be present in v2_cross-section_definition table.
	reference_level	double	*	m above datum (NL: NAP)	Reference level or bottom level for profile.
	friction_type	integer	*		1 = Chezy 2 = Manning
	friction_value	double	*	1: m1/2/s 2: s/m1/3	Friction or roughness value for profile
					For connected channels only. Reference level for exchange between 1D and 2D.
	bank_level	double	**	(NL: NAP)	** Mandatory when channel type is 102.
v2_culvert			*		Table of culverts, connection between connection nodes
	id	serial	*		Leave blank. Is filled automatically.
	display_name	text	*		Name field, no constraints
	code	text	*		Name field, no constraints
					100 = embedded channel 101 = stand-alone channel 102 = connected channel 105 = double connected channel
	calculation_type	integer	*	101	Embedded or connected can only be used where a DEM is present. Any start-, end- or calculation node along a channel with these types may not lay outside the DEM.
	friction_value	double	*	1: m1/2/s 2: s/m1/3	Friction or roughness value for profile
	frinting hour	interne			Friction type 1 = Chezy
	friction_type	integer	*	_	2 = Manning
	dist_calc_points zoom_category	double integer	· ·	m	Distance between calculation points on linesegments. Visibility in live site 1 is lowest for smallest level (i.e. ditch) and 5 for highest (rivers)
	zoom_category	integer			Reference to v2_cross_section_definition id.
	cross_section_definition_id	integer	*		Must be present in v2_cross-section_definition table.
	discharge_coefficient_positive	double			Not yet implemented.
	discharge_coefficient_negative	double			Not yet implemented.
	invert_level_start_point	double	*	m above datum (NL: NAP)	Invert level at culvert startpoint. Must be equal or above ajoining manhole or channel bottom/reference level.
				m above datum	Invert level at culvert endpoint.
	invert_level_end_point	double	*	(NL: NAP)	Must be equal or above ajoining manhole or channel bottom/reference level.
	connection_node_start_id	integer	*		Start node for culvert line. Must be present in v2_connection_nodes and the culvert geometry startpoint must be snappen on the given connection node.
	connection_node_end_id	integer	*		End node for culvert line. Must be present in v2_connection_nodes and the culvert geometry endpoint must be snappen on the given connection node.
v2_global_settings					Global settings
	id	serial	*		Leave blank. Is filled automatically.
					Names must be unique globally. Do not use spaces or capitals. Keep names shorter than 10 characters.
	name	text	*		Don't use same name as sqlite name.
					Include OD inflow (NWRW/impervious surfaces) in simulation. 0 do not use 0d inflow
	use_0d_inflow	integer	*		1 use v2_impervious_surface 2 use v2_surface

					Individe 2D flow in classification
use_2d_flow	boolean	*			Include 2D flow in simulation. When using only 2D flow, set manhole_storage_area to NULL.
					Include 1D flow in simulation.
use_1d_flow	boolean	*			When using only 1D flow, manhole_storage_area must be larger than zero.
use_2d_rain	boolean	*			Use rainfall via 2D surface for this scenario
groundwater_settings_id	integer				Reference to id that contains groundwater settings for this scenario.
simple_infiltration_settings_id	integer				Reference to id that contains settings for simple infiltration for this scenario.
control_group_id	integer				Reference to id that contains control settings for this scenario.
numerical_settings_id	integer				Reference to id that contains numerical settings for this scenario.
interflow_settings_id	integer				Reference to id that contains interflow settings for this scenario.
	timestamp				
start_time	with time zone	*			Starttime of simulation. Format: 00:00:00 (LM: volgens mij mag dit format niet en moet het zoiets zijn: 2014-01-01 00:00:00)
start_date	date	*			Format: 2017-01-01
sim_time_step	double	*		S	Simulation time step
*:					Maximum nr of timesteps.
nr_timesteps	integer	*		_	This value is not used in the web portal.
timestep_plus	boolean			-	Allow switching to larger timestep when simulation is steady.
maximum_sim_time_step	double	**		s	Maximum timestep during simulation. ** Mandatory when using timestep plus.
minimum_sim_time_step	double			S	Minimum timestep during smulation.
output_time_step	double	*		S	Timestep written in output file
output_time_step	double			3	Size of smallest grid cell in quadtree, k=1.
grid_space	double	*		m	Must be amultitude of the raster pixel size.
					Maximum multitude of smallest grid size in quadtree starting from grid space at k=1.
kmax	integer	*			Grid size increases according to 2^(k-1) * grid_space.
dist_calc_points	double			m	Global distance between calculation points for line elements.
					User-defined table stepsize/increment (m).
table_step_size	double	*		m	Use 0.01 for detailed simulation or larger stepsize to speed up exploring model schematisation.
table_step_size_1d	double		table_step_size	m	User-defined table stepsize/increment (m) for 1d cross-sections and volumes. default value = table_step_size
table_step_size_volume_2d	double		table_step_size	m	User-defined table stepsize/increment (m) for defining 2D volumes. Can increase speed when this is set larger than table_step_size. default value = table_step_size
flooding_threshold	double		>=0.0	m	Water depth threshold for flow between 2D cells. Depth relative to lowest bathymetry pixel at the edge between two 2D cell.
advection_2d	integer		0/1		Use advection in 2D.
advection_1d	integer	*	0/1		Use advection in 1D, other schemes 2-6 are in experimental phase
max_angle_1d_advection	double			degrees [0-90]	Maximum angle at which advection is considered.
		*		m above datum	
dem_file	text	*	raster/yourfile.tif	(NL: NAP)	Relative path to dem file (.tif)
f-i-+ +					1: Chezy
frict_type	integer			4.[4/2/-] 2.	2: Manning
frict_coef	double	*		1:[m1/2/s], 2: [s/m1/3]	Constant friction coefficient for 2D.
mec_coci	double			1:[m1/2/s], 2:	Constitution Control to 20.
frict_coef_file	text		raster/yourfile.tif		Relative path to friction file (.tif)
frict_avg	integer	*) -	The roughness coefficient will be averaged within one cell.
				m above datum	· ·
initial_waterlevel	double	*		(NL: NAP)	Global initial water level.
				m above datum	
initial_waterlevel_file	text		raster/yourfile.tif	(NL: NAP)	Relative path to initial water level file (.tif)
					0=max, 1=min, 2=avg
water_level_ini_type	integer	**			**Mandatory when using initial water level file.
				m above datum	
initial_groundwater_level	double			(NL: NAP)	
initial_groundwater_level_file	text		raster/yourfile.tif	m above datum	
initial_groundwater_level_type	integer	**	ruster/yournie.tir	(INE. INPAP)	
initial_groundwater_rever_type	integer				Default manhole storage area.
					Detail mainties storage area. **Mandatory when using only 1d flow (no dem) manhole area must be larger than 0 (and an INTEGER)
manhole_storage_area	double	**		m2	Must be NULL when using only 2d.
dem_obstacle_detection	boolean	*		-	Automatically detect obstacles based on DEM-file. Works only in combination with dem_obstacle_height (has no relation with v2_obstacle)
					Relative height (above lowest pixel of calc cell) for obstacle detection.
dem_obstacle_height	double	**		m	** Mandatory when using dem obstacle detection.
					Relative length of cell size. When embedded channel intersects 2D grid size over length shorter than the cellsize * cutoff threshold, the embedded channel skips this 2
embedded_cutoff_threshold	double		0.05	factor [0 - 1]	cell. Usefull for preventing very short embedded channel segments (which slow down your model).

	epsg_code	integer	*		m	Define map projection for study area. Much match raster projection.
	wind_shielding_file	text				Define map projection for study area. Machiniately projection.
	max interception	14.11				IS NOT IMPLEMENTED
	max_interception_file					IS NOT IMPLEMENTED
	guess dams					IS NOT IMPLEMENTED
v2_groundwater	guess_uums					
	id	serial	*			Leave blank. Is filled automatically.
	display_name	text	*			Name field, no constraints
	initial_infiltration_rate	double	*		mm/day	Talle lead, lo collatera
	initial_infiltration_rate_file	text		raster/yourfile.tif		
	inicial_initration_rate_inc	text		raster/yournic.tii	iiiii, aay	0=max, 1=min, 2=avg
	initial_infiltration_rate_type	integer	**			**Mandatory when using initial infiltration file.
	equilibrium_infiltration_rate	double	*		mm/day	
	equilibrium_infiltration_rate_file	text		raster/yourfile.tif	mm/day	
						0=max, 1=min, 2=avg
	equilibrium_infiltration_rate_type	integer	**			**Mandatory when using equilibrium infiltration file.
	infiltration_decay_period	double	*		days	
	infiltration_decay_period_file	text		raster/yourfile.tif	days	
						0=max, 1=min, 2=avg
	infiltration_decay_period_type	integer	**			**Mandatory when using infiltration_decay_period_file.
	phreatic_storage_capacity	double	*	>0	-	
	phreatic_storage_capacity_file	text		raster/yourfile.tif	-	
		l	**			0=max, 1=min, 2=avg
	phreatic_storage_capacity_type	integer	*			**Mandatory when using phreatic_storage_capacity_file.
	groundwater_impervious_layer_level	double	*		m tov NAP	
	groundwater_impervious_layer_level_file	text		raster/yourfile.tif	m tov NAP	
	groundwater_impervious_layer_level_type	integer	**			0=max, 1=min, 2=avg **Mandatory when using groundwater_impervious_layer_level_file.
	groundwater_hydro_connectivity	double	*		m/day	walluatory when using groundwater_impervious_layer_ever_ine.
	groundwater_hydro_connectivity_file	text		raster/yourfile.tif		
	groundwater_nydro_connectivity_me	text		raster/yourne.tii	III/ uay	0=max, 1=min, 2=avg
	groundwater_hydro_connectivity_type	integer	**		-	**Mandatory when using groundwater_hydro_connectivity_file
	leakage	double	*		mm/d	positive is adding water to the domain, negative is extracting water from the domain.
	leakage_file	text		raster/yourfile.tif	mm/d	positive is adding water to the domain, negative is extracting water from the domain.
v2_interflow						
_	id	serial	*		-	Leave blank. Is filled automatically.
	display_name	text	*		-	Name field, no constraints
						Include interflow in simulation.
						0: No Interflow
						1: define 1 porosity value for model. This porsity will be rescaled per pixel (to lowest pixel per cell), so (interflow) volume is the same for each pixel within 1 cell>
						define porosity, hydraulic_conductivity, porosity_layer_thickness and impervious_layer_elevation
						2: define 1 porosity value for model. This porsity will be rescaled per pixel (to lowest pixel whole model), so (interflow) volume is the same for each pixel in whole model> define porosity, hydraulic_conductivity, porosity_layer_thickness and impervious_layer_elevation
						3: define 1 porosity value for model. This porsity will not be rescaled, but each pixel in the model has the same porosity. The (interflow) volume for each pixel dependent
						on the impervious_layer_elevation, which is below lowest pixel of cell> define porosity, hydraulic_conductivity and impervious_layer_elevation
						4: define 1 porosity value for model. This porsity will not be rescaled, but each pixel in the model has the same porosity. The (interflow) volume for each pixel depend
						on the impervious_layer_elevation, which is below lowest pixel of whole model> define porosity, hydraulic_conductivity and impervious_layer_elevation
			*			* NOT NULL
	interflow_type	integer	**		ס	** do not use interflow in combination with limiter_slope_crossectional_area_2d >0 AND/OR limiter_slope_friction_2d>0
						Porosity (between 0 and 1) of interflow layer.
	porosity	double	**			** Mandatory when using interflow
	porosity_file	text		raster/yourfile.tif	-	Relative path to porosity file (.tif)
			**			Thickness of porosity layer relative to DEM.
	porosity_layer_thickness	double	**	> 0	m	**Mandatory for interflow_type 1 and 2.
						When using interflow: Depth of interflow layer defined below lowest pixel (so always positive). Imaginary bottom of interflow layer. So itselfigurations and it is interflow layer defined below lowest pixel (so always positive). Imaginary bottom of interflow layer.
						For interflow types 1 and 2 it is ignored for the volume in the interflow layer (but still it must be filled in when using interflow). The volume in these types is determined by the porosity and the porosity layer thickness.
						For interflow types 3 and 4 it is used to determine the volume in the interflow layer.
						In all types the waterlevel in the interflow layer starts at this level. It does not influence flow.
	impervious_layer_elevation	double	**	> 0	m	** Mandatory when using interflow
	handra dia mandanti da	4	**		/	Global hydraulic conductivity (Darcy)
	hydraulic_conductivity	double	**		m/day	**When interflow_type > 0 then hydraulic_conductivity OR hydraulic_conductivity_file is mandatory

	hydraulic_conductivity_file	text	raster/yourfile.tif	m/dav	Relative path to hydraulic conductivity path (.tif) **When interflow_type > 0 then hydraulic_conductivity OR hydraulic_conductivity_file is mandatory
v2_numerical_settings	.,,	tent	raster, your metti	, 001	Advanced numerical settings
vz_namencal_settings	id	serial *		_	Leave blank. Is filled automatically.
	integration_method	integer *	0)	Time integration method: 0=Euler implicit
	max_nonlin_iterations	integer *	20		Maximum number of nonlinear iterations in single time step.
	convergence_eps	double *	0.00001		Minimal residual for convergence of newton iteration.
	convergence_cps	double	0.00001		Setting for matrix solver. Values below are adviced for different model types
					Secting for maint solver. Values below are adviced for different model types 700 for 10 flow
					7 for 1D and 2D flow
	max_degree	integer *	see comment		5 for 2D flow only
	use_of_cg	integer *	20)	Number of iteration of conjugate gradient method, before swtiching to another method
	precon_cg	integer	1	-	Use preconditioner for matrix solver. Increases simulation speed in most cases, Set to 0 or 1 (default).
					1 for 1D calculation with closed profiles to handle non-linearity in volume-waterlevel relation. When using 0 nested newton is switch off by default but will be used
	use_of_nested_newton	integer *	0/1		when calculations become non-linear. For sewerage systems 1 is advised.
	preissmann_slot	double	0) m2	A conceptual vertical and narrow slot providing a conceptual free surface condition for the flow when the water level is above the top of a closed conduit. Often used to guarentee stability, in 3Di unnessary unless used for presurized pipe flow. Works only for circular profiles.
	cfl_strictness_factor_1d	double	1		Stricktness of CFL condition for 1D.
	cfl_strictness_factor_2d	double	1		Stricktness of CFL condition for 2D.
					Determines whether pump discharge is always maximum capacity (0) or discharge is limited to available inflow (1). The latter ensures a smooth discharge. Value
	pump_implicit_ratio	double	1		between 0 and 1.
					In case the friction assumptions based on the dominant friction balance gives a structurally underestimation of the friction, one can switch this setting on.
					0 is off, 1 is maximum between averaged friction and divided channel based friction, 2 is always linearized, 3 linearizes the depth based on a weighed averaged. In this
	frict_shallow_water_correction	integer	0) -	case the maximum depth of a thin layer needs to be defined. Do not use in combination with interflow
					This limiter starts working in case the depth based on the downstream water level is zero and may be useful in sloping areas. 0 is off, and 1 is a limiter which ends in a a higher order scheme, but is sensitive too instabilities, 2, treats the cross-sections as an upwind method volume/surface area
					under the assumption that the flow and a higher order stateme, but is sensitive too instabilities, it leads the closes-sections as an upwind interiors violating-surface and under the assumption that the flow acts like a thin layer, 3 makes a combination of the traditional method in combination with the thin layer approach. In this case
					the maximum depth of a thin layer needs to be defined.
	limiter_slope_crossectional_area_2d	integer	0	-	Do not use in combination with interflow
	limiter_slope_friction_2d	integer	0) -	This limiter starts working in case the depth based on the downstream water level is zero and may be useful in sloping areas. 0 is off, and 1 is on. This limiter is obliged in combination with limiter_slope_crossectional_area_2d>0 I Do not use in combination with interflow
	limiter_grad_2d	integer	0	-	The limiter on the water level gradient allows the model to deal with unrealistically steep gradients. When field is left empty, it is switched on!!!
	limiter_grad_1d	integer	1		The limiter on the water level gradient allows the model to deal with unrealistically steep gradients.
					For numerical computation several tresholds are needed in the code, to avoid deficiencies due to a limited numerical accuracy. Generally this is to keep the behaviour
	flow_direction_threshold	double	0.000001	m/s	consistent.
					For numerical computation several tresholds are needed in the code, to avoid deficiencies due to a limited numerical accuracy. Generally this is to keep the behaviour
	minimum_friction_velocity	double	0.05	m/s	consistent.
		l			For numerical computation several tresholds are needed in the code, to avoid deficiencies due to a limited numerical accuracy. Generally this is to keep the behaviour
	convergence_cg	double	0.000000001		consistent.
	ganaral numarical threshold	double	0.00000001		For numerical computation several tresholds are needed in the code, to avoid deficiencies due to a limited numerical accuracy. Generally this is to keep the behaviour consistent.
	general_numerical_threshold	double	0.0000001		
	minimum_surface_area	double	0.00000001	m2	For numerical computation several tresholds are needed in the code, to avoid deficiencies due to a limited numerical accuracy. Generally this is to keep the behaviour consistent.
	thin_water_layer_definition	double **			** mandatory when using friction shallow water correction option 3 or limiter_slope_crossectional_area_2d on option 3
v2 grid refinement	tiiii_water_layer_definition	double	0.1		Lines that determine local 2D calculation grid refinement.
vz_gnd_rennene	id	serial *			Leave blank. Is filled automatically.
	display_name	text *			Name field, no constraints
	refinement_level	integer *			Local refinement level. Starting from 1. Values above kmax (v2_global_settings) are ignored.
v2 grid refinement see	remement_level	integer			
v2_grid_refinement_area	tal	serial *			Lines that determine local 2D calculation grid refinement.
	id				Leave blank. Is filled automatically.
	display_name	text			Name field, no constraints
	refinement_level	integer *			Local refinement level. Starting from 1. Values above kmax (v2_global_settings) are ignored.
v2_impervious_surface		corial *			Definition of OD-surfaces.
	id	Scriai		-	Leave blank. Is filled automatically.
	display_name	text		-	Name field, no constraints
	code	text		-	Code field, no constraints
	surface_class	text *		-	gesloten verharding , open verharding , half verhard , onverhard , pand
	surface_inclination	text *		-	vlak, hellend, uitgestrekt
	zoom_category	integer		-	Visibility in live site 1 is lowest for smallest level (i.e. ditch) and 5 for highest (rivers)
	nr_of_inhabitants	double		-	Number of inhabitant used for dry wheather flow.
	dethe state of the state	44		L/day per	December 6 and to the black
	dry_weather_flow	double		inhabitant	Dry weather flow per inhabitant.

	area	double precis	ion *		Cannot be left blank. A value of 0 is allowed.
v2_impervious_sur		100000			Table that linkes v2 impervious_surfaces to connection node ID's.
,	id	serial	*	-	Leave blank. Is filled automatically.
	impervious_surface_id	integer	*	-	ID of impervious surfce feature
	connection_node_id	integer	*	-	ID of connection node
	percentage	integer	*	%	Percentage of impervious surface area places on connection node
v2_levee	, , , , , , , , , , , , , , , , , , ,				Line with fixed crest level that overides DEM- values at calculation cell borders.
	id	serial	*	-	Leave blank. Is filled automatically.
				m above datum	
	crest_level	double	*	(NL: NAP)	Crest level of levee segment.
					** Mandatory when you want to use a levee breach during your calculation
					Material used for breach growth.
			**		1: sand
	material	integer	**		2: clay
	max_breach_depth	double	**	m below levee crest_level	** Mandatory when you want to use a levee breach during your calculation Maximum breach depth relative to crest level (thus a positive value must be filled in).
v2_manhole	Illax_breacti_deptil	double		crest_level	Sewerage manhole
vz_mamole	id		*	_	
	display_name	serial	*	-	Leave blank. Is filled automatically. Name field, no constraints
		text	*		
	code	text	*	-	Name field, no constraints
	connection_node_id	integer	•	-	ID of connection node on which manhole is placed.
					00: vierkant 01: rond
	shape	text	*	_	OZ: rechtoek
	width	double	*	m	Manhole width or diameter
					Manhole length
	length	double	**	m	**Mandatory when shape = 02
					0: inspection (inspectieput)
					1: outlet
	manhole_indicator	integer	*	-	2: pump
					Manhole calculation type for 1D-2D connection.
					0: embedded 1: isolated
	calculation_type	integer	*	<u>-</u>	1. isoraccu 22: connected
				m above datum	
	bottom_level	double	*	(NL: NAP)	Manhole bottom level.
				m above datum	
	surface_level	double	*	(NL: NAP)	Manhole surface level.
					Manhole drain level (**for connected manholes). If there is a connected manhole without drain level, 3Di will take the top of the pipe from the connection pipes as
	drain_level	double	**	(NL: NAP)	drain level.
	zoom_category	integer	*	-	Visibility in live site 1 is lowest for smallest level (i.e. ditch) and 5 for highest (rivers)
v2_obstacle					Line with fixed crest level that overides DEM- values at calculation cell borders.
	id	serial	*	-	Leave blank. Is filled automatically.
				m above datum	
	crest_level	double	*	(NL: NAP)	Crest level of obstacle segment
v2_orifice					Structure that can be used for spillways or bridges
	id	serial	*	-	Leave blank. Is filled automatically.
	display_name	text	*	-	Name field, no constraints
	code	text	*	-	Name field, no constraints
					Crest or bottom level.
	crest_level	double	*	(NL: NAP)	Must be equal or above ajoining manhole or channel bottom/reference level.
	sewerage	boolean		-	For internal book keeping. Can be used for statistics in QGIS plugin.
	cross_section_definition_id	integer	*	-	ID of cross section definition in v2_cross_section_definition
				1:[m1/2/s], 2:	
	friction_value	double	*	[s/m1/3]	Friction or roughness value for profile
					Friction Type.
	friction_type	integer	*		1: Chezy 2: Manning
	discharge_coefficient_positive	double	*	1 -	Discharge coefficient for positive flow (from start to end node). Can be set to 0 when closed.
	discharge_coefficient_negative	double	*	1 -	Discharge coefficient for positive flow (from start to end node). Can be set to 0 when closed.
			*	1 -	
	zoom_category	integer	*		Visibility in live site 1 is lowest for smallest level (i.e. ditch) and 5 for highest (rivers)

					Type of weir formulation.
	crest_type	integer *			3: broad crested 4: short crested
	crest_type	integer		-	Start node for orifice.
	connection_node_start_id	integer *		_	Start note for ornice.
	comiccion_node_start_id	integer			End node for orifice.
	connection_node_end_id	integer *		_	Must be present in v2_connection_nodes
v2_pipe					Table of pipes
	id	serial		-	Leave blank. Is filled automatically.
	display_name	text		-	Name field, no constraints
	code	text		_	Name field, no constraints
	profile_num	integer			For internal use only.
					Pipe type. 3Di requires the sewerage_type to be one of the following: 0: gemengd - mixed
					I: rwa - rain water
					2: dwa - dry wheather flow
					3: transport
					4: overstort - spillway 5: zinker
					3. diliker 6: berging - storage
					7: bergbezinkbak - storage tank
					Some organisations use additional codes. This is not allowed in 3Di.
	sewerage_type	integer		-	
					Calculation type for pipe. When start en end connection nodes are manholes only used for calculation points half-way pipe.
					0 = embedded 1 = isolated
					1 = isolated 2 = connected
					2 = trond crest
	calculation_type	integer *	101		4 = short crest
				m above datum	Invert level at culvert startpoint.
	invert_level_start_point	double *		(NL: NAP)	Must be equal or above ajoining manhole or channel bottom/reference level.
				m above datum	Invert level at culvert endpoint.
	invert_level_end_point	double *		(NL: NAP)	Must be equal or above ajoining manhole or channel bottom/reference level.
	cross_section_definition_id	integer *		-	ID of cross section definition in v2_cross_section_definition
				1:[m1/2/s], 2:	
	friction_value	double *		[s/m1/3]	Friction or roughness value for profile; friction only accounted for in case of broad crested weir
					Friction type.
	friction_type	integer *			1: Chezy 2: Manning
	dist_calc_points	double		m	Distance between calculation points on pipe.
	uist_caic_points	double		111	
					Material of pipe, used for internal bookkeeping only. 0: concrete
					di pic
					2: gres
					3: cast iron
					4: brickwork 5: HPE
					3: nre 6: HDPE
					7: plate iron
	material	integer			8: steel
	original_length	double		m	For internal use only.
	zoom_category	integer			Visibility in live site 1 is lowest for smallest level (i.e. ditch) and 5 for highest (rivers)
					Start node for pipe.
	connection_node_start_id	integer			Must be present in v2_connection_nodes
					End node for pipe.
	connection_node_end_id	integer			Must be present in v2_connection_nodes
v2_pumpstation					List of pumpstations
	id	serial *			Leave blank. Is filled automatically.
	display_name	text *			Name field, no constraints
	code	text *			Name field, no constraints
	classification	integer			For internal book keeping.
	sewerage	boolean *			For internal book keeping.
					Type that determines pump function.
					1: pump reacts only on suction side
	type	integer *			2: pump reacts only on delivery side

					m above datum	Level at pump start or end node from from which it starts pumping.
	start_level	double	*		(NL: NAP)	Must be equal or above ajoining manhole or channel bottom/reference level.
	lower_stop_level	double	*		m above datum (NL: NAP)	Level at pump start or end node at which pump stops pumping. Must be below start level.
	upper_stop_level	double			m above datum (NL: NAP)	Level at pump start or end node at which pump stops pumping. Must be above start level.
	capacity	double	*		L/s	Pump capacity.
	zoom_category	integer	*		43	Visibility in live site 1 is lowest for smallest level (i.e. ditch) and 5 for highest (rivers)
	zoom_eatego.y	cgci				Start node for pumpstation.
	connection_node_start_id	integer				Must be present in v2_connection_nodes. Can be left blanc in which case pump functions as boundary.
						End node for pumpstation. Must be present in v2_connection_nodes.
2	connection_node_end_id	integer				Can be left blanc in which case pump functions as boundary.
v2_simple_infitration	id	serial	*			Leave blank. Is filled automatically.
	display_name	text	*			Name field, no constraints
	infiltration_rate	double	*	0	mm/day	Name leet, no constraints Global infiltration rate.
	initiation_rate	uoubic		0	mm, uay	Relative path to infiltration file (.tif).
	infiltration_rate_file	text		raster/yourfile.tif	mm/dav	Infiltration uses the sum of pixel values per calculation cell in case of rain and sum of wet pixels in case of standing water. Must be NULL (and not "") when not using infiltration otherwise 3di expects infiltration.
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	Option that sets how the infiltration works in calculation cells.
						O: rain (whole surface when raining, only wet pixels when dry)
	. 60					1: whole surface (always whole surface)
	infiltration_surface_option	integer		0		2: only wet surface (always only wet pixels)
	max_infiltration_capacity_file	text		raster/yourfile.tif	m	Relative path to max infiltration file (.tif). Maximum infiltration uses the sum of pixel values per calculation cell.
v2_surface						
	id	serial	*			Leave blank. Is filled automatically.
	display_name	text	*			Name field, no constraints
	code	text	*			Name field, no constraints
	zoom_category	integer	*			Visibility in live site 1 is lowest for smallest level (i.e. ditch) and 5 for highest (rivers)
	nr_of_inhabitants	double			-	Number of inhabitant used for dry wheather flow.
	dry_weather_flow	double			L/day per inhabitant	Dry weather flow per inhabitant.
	function	text				LM: I think this is for your own administration. You can fill in for instance: dak vlak, dak hellend
	area	double	*		m2	Cannot be left blank. A value of 0 is allowed.
	surface_parameters_id	integer	*			Reference to v2_surface_parameters. The id filled in here must be present in this (v2_surface_parameters) table
v2_surface_map						
	id	serial	*		-	Leave blank. Is filled automatically.
	surface_type	text	*		-	choice to use the 'v2_surface' or 'v2_impervious_surface'
	surface_id	integer	*		-	ID of surface feature
	connection_node_id	integer	*		-	ID of connection_node. Connecting the surface area from v2_surface to an connection_node
	percentage	double	*		%	percentage of area to the connection_node
v2_surface_parameters	For more information on these parameters see: Lei	_	00 page: 51			
	id	serial	*		-	Leave blank. Is filled automatically.
	outflow_delay	double	*		/min	delay of outflow
	surface_layer_thickness	double	*		mm	mm storage on the surface
	infiltration	boolean	*		/-	False or True
	max_infiltration_capacity	double	*		mm/h	Maximum ifiltration capacity of the surface
	min_infiltration_capacity	double	*		mm/h	Minimum ifiltration capacity of the surface
	infiltration_decay_constant	double	*		/h /h	time factor decay infiltration capacity of the surface
v2_weir	infiltration_recovery_constant	double			/11	time factor recovery infiltration capacity of the surface List of weirs
vz_well	id	serial	*		-	Leave blank. Is filled automatically.
	display_name	text	*		-	Name field, no constraints
	code	text	*		-	Name field, no constraints
		text			m above datum	
	crest_level	double	*		(NL: NAP)	Must be equal or above ajoining manhole or channel bottom/reference level.
	creet type	integer				Type of weir formulation. 3: broad crested 4: short crested
	crest_type	integer	1.		-	4. SHOIL CLESTED

	cross_section_definition_id	integer	*	-	ID of cross section definition in v2_cross_section_definition
	sewerage	boolean			For internal book keeping, 0 (false) or 1 (true)
	discharge_coefficient_positive	double	*	-	Discharge coefficient for positive flow (from start to end node).
	discharge_coefficient_negative	double	*	-	Discharge coefficient for positive flow (from start to end node).
	external	boolean			For internal book keeping
	zoom category	integer			Visibility in live site 1 is lowest for smallest level (i.e. ditch) and 5 for highest (rivers)
	friction_value	double	*	1:[m1/2/s], [s/m1/3]	2: Friction or roughness value for profile; friction only accounted for in case of broad crested weir
	friction_type	integer	*		Friction type. 1: Chezy 2: Manning
	connection_node_start_id	integer			Start node for weir. Must be present in v2_connection_nodes and on channel start node
	connection_node_end_id	integer			End node for weir. Must be present in v2_connection_nodes and on channel end node
v2_wind					Settings for wind external forcing.
	id	serial			Leave blank. Is filled automatically.
	time	integer		S	Point in time from start of simulation
	windspeed	double		m/s	Wind speed
	winddirection	double		degrees	Wind direction based on North Azimuth
	drag_coeffictient	double		0.005 -	Wind drag coeficient.
v2_windshielding					List of drag coefficients for 1D channels. (does not work on 2D)
	id				Leave blank. Is filled automatically.
	channel_id	integer			Reference to v2_channel id.
	north	double		1 -	windshielding coefficient for direction north (0 degrees)
		doube			
	nothwest	double		1 -	windshielding coefficient for direction northwest (0 degrees)