

Simulation: C:\PROGRAMME\SMUSI5\TEMP\~~temp.*

erzeugt am: 24.03.2020 14:31:33

Import am: 24.03.2020 14:36:57

Summenwerte der Simulation (*.SUM)

```

SMUSI 5.2
=====

*****
**   A b f l u e s s e   u n d   S c h m u t z f r a c h t e n   **
**               a n   d e n               **
**   E n t l a s t u n g s b a u w e r k e n   **
*****

      Stadt Viechtach
Prognose-Zustand saniert (2020)

=====
Bilanzierungszeitraum: 01.01.1961 00:00 - 28.12.2006 23:59
=====

Anfangsbedingungen
-----
Beckenfuellung ..... (%) : 0
Anfangsverlust ..... (%) : 100

Muldenverluste nach NG (ATV-A118)
-----
Neigungsgruppen ..... (-) : NG 1 NG 2 NG 3 NG 4
Muldenverluste ..... (mm) : 1.50 1.00 0.50 0.50

Niederschlagskenngrößen
-----
repräsentative Regenreihen
Regenreihennummer ..... (-) : RRNR 1 Mittel
Jahresniederschlagshöhe ..... (mm) : 902.0 902.00
Niederschlagshöhe (Bilanz) ..... (mm) : 41516.541516.45
Niederschlagsdauer (Bilanz) ..... (h) : 24406.9 24406.9

Absetz- und Reinigungswirkungen
-----
Absetzklassen ..... (-) : s m g h
Absetzwirkung fuer AFS ..... (%) : 5.0 15.0 25.0 60.0

      Stoff : AFS BSB5 CSB TOC NH4-N PO4-P
Absetzwirkung bezogen auf AFS .... (%) : - 35.0 30.0 30.0 0.0 0.0
TW-Ablaufkonzentrationen der KLA (mg/l) : 25.0 10.0 30.0 10.0 5.0 1.5
```

Simulation: C:\PROGRAMME\SMUSI5\TEMP\~~temp.*

erzeugt am: 24.03.2020 14:31:33

Import am: 24.03.2020 14:36:57

Summenwerte der Simulation (*.SUM)

Definierte Schmutzpotentiale nach Flaechentyp

	Stoff :	AFS	BSB5	CSB	TOC	NH4-N	PO4-P
Flaechentyp 0	(kg/ha*a) :	770.0	60.0	600.0	200.0	6.0	6.5

Simulation: C:\PROGRAMME\SMUSI5\TEMP\~~temp.*

erzeugt am: 24.03.2020 14:31:33

Import am: 24.03.2020 14:36:57

Summenwerte der Simulation (*.SUM)

Resultierende Regenwasserkonzentrationen

Flaeche	FL-Typ	NG	RRNR	Stoff :	AFS	BSB5	CSB	TOC	NH4-N	PO4-P	
F3		0	2	1	(mg/l) :	117.2	9.1	91.3	30.4	0.9	1.0
T52		0	2	1	(mg/l) :	117.2	9.1	91.3	30.4	0.9	1.0
51		0	2	1	(mg/l) :	117.2	9.1	91.3	30.4	0.9	1.0
F41		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
T72		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
F71		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
T73		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
F6		0	2	1	(mg/l) :	117.2	9.1	91.3	30.4	0.9	1.0
F81		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
T82		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
F11		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
F91		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
92		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
T12		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
T2A2		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
F2A1		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
T2B2		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
F2B1		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
T53		0	2	1	(mg/l) :	117.2	9.1	91.3	30.4	0.9	1.0
T42		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
T74		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9
T2B3		0	3	1	(mg/l) :	111.2	8.7	86.7	28.9	0.9	0.9

Simulation: C:\PROGRAMME\SMUSI5\TEMP\~~temp.*

erzeugt am: 24.03.2020 14:31:33

Import am: 24.03.2020 14:36:57

Summenwerte der Simulation (*.SUM)

Stadt Viechtach														SMUSI 5.2													
Prognose-Zustand saniert (2020)																											
Bilanzierungszeitraum : 1. 1.1961 0:00 - 29.12.2006 0:00														Niederschlagshoehe (mm/a) : 899.52													
														Niederschlagsdauer (h/a) : 528.82													

* Gebiets- und Systemkenngrößen *																											

I	-----I		I	-----I				I	-----I				I	-----I				I	-----I				I	-----I			
I	Bauwerk		I	Direkteinzugsgebiet				I	Gesamteinzugsgebiet				I	Trockenwetterabfluss				I	Entlastungsbauwerke				I				
I	-----I		I	-----I				I	-----I				I	-----I				I	-----I				I	-----I			
I	Bez.	Typ	I	A	VG	Au	EZ	I	A	VG	Au	EZ	I	mQh	mQg	mQf	mQt	mxQt	I	Qd	Qkue	V	VS	qr	te		
I			I	AAus		ATr	EZTr	I	AAus		ATr	EZTr	I						I		(V-Kan)			(t-Kan)	I		
I	-----I		I	-----I				I	-----I				I	-----I				I	-----I				I	-----I			
I	-	-	I	ha	%	ha	-	I	ha	%	ha	-	I	l/s				I	l/s	l/s	cbm	cbm/ha	l/(sha)	h	I		
I	-----I		I	-----I				I	-----I				I	-----I				I	-----I				I	-----I			
I	RUEB8	DLB N	I	24.5	35	8.6	470	I	24.5	35	8.6	470	I	1	1	2	4	8	I	22	1	135	15.7	2.1	2		
I			I			15.2	292	I			15.2	292	I						I								
I	RUEB9	DLB N	I	10.9	35	3.8	210	I	10.9	35	3.8	210	I	1	0	1	1	2	I	8	1	61	15.9	1.8	2		
I			I			8.2	157	I			8.2	157	I						I								
I	SKO2a	SKO H	I	26.7	35	9.3	512	I	26.7	35	9.3	512	I	2	0	2	4	9	I	18		192	20.6	1.4	4		
I			I			52.8	1013	I			52.8	1013	I						I								
I	RUEB5	DLB N	I	24.9	75	18.7	0	I	24.9	75	18.7	0	I	0	3	3	6	11	I	37	1	315	16.9	1.7	3		
I			I			9.8	0	I			9.8	0	I						I								
I	SKO2b	SKO H	I	7.1	35	2.5	137	I	7.1	35	2.5	137	I	1	0	1	1	3	I	11		140	56.0	3.9	4		
I			I			16.8	322	I			16.8	322	I						I								
I	RUEB7	DLB H	I	27.8	35	9.7	533	I	27.8	35	9.7	533	I	1	0	1	2	4	I	50	1	83	8.5	4.9	0		
I			I			8.7	121	I			8.7	121	I						I								
I	RUEB1	DLB N	I	28.6	35	10.0	549	I	39.6	35	13.8	759	I	2	0	2	3	6	I	12	1	167	16.5	0.6	5		
I			I			6.5	158	I			14.7	315	I						I								
I	RUEB4	FGB H	I	86.5	35	30.3	1660	I	111.4	44	48.9	1660	I	3	3	5	11	21	I	100		190	10.3	1.8	1		
I			I			9.3	76	I			19.1	76	I						I								
I	RUEB3neu	DLB N	I	8.9	35	3.1	171	I	120.3	43	52.1	1831	I	3	3	5	11	22	I	90	1	106	11.7	1.5	0		
I			I					I			19.1	76	I						I								
I	RUEB6neu	DLB H	I	69.4	40	27.8	1369	I	121.7	38	46.1	2372	I	4	2	6	12	23	I	80	1	393	13.3	1.5	2		
I			I					I			23.9	413	I						I								
I	B128	DLB N	I	0.0	0	0.0	0	I	315.4	39	123.8	5611	I	12	5	15	32	62	I	211	9999	786	20.7	1.4	1		
I			I					I			127.2	2139	I						I								
I	-----I		I	-----I				I	-----I				I	-----I				I	-----I				I	-----I			
I	Summe		I	Mischsystem				I	315.4	39	123.8	5611	I	12	5	15	32	62	I	211		1782	14.4	1.4			
I			I	Trennsystem				I			127.2	2139	I						I					0.7			
I			I	Aussengebiete				I	0.0				I			0	0		I								
I			I	Fiktives Zentralbecken				I					I						I	211		786	6.3	1.4	1		
I	-----I		I	-----I				I	-----I				I	-----I				I	-----I				I	-----I			

erzeugt am: 24.03.2020 14:31:33

Import am: 24.03.2020 14:36:57

erzeugt am: 24.03.2020 14:31:33

Import am: 24.03.2020 14:36:57

Summenwerte der Simulation (*.SUM)

Stadt Viechtach
Prognose-Zustand saniert (2020)

SMUST 5.2

Bilanzierungszeitraum : 1. 1.1961 0:00 - 29.12.2006 0:00

Niederschlagshoehe (mm/a) : 899.52

Niederschlagsdauer (h/a) : 528.82

```
*****
* Maximalabflusse in den Auslasskanaelen *
*****
```

I	I	I	I	MAXIMALWERTE						IM AUSLASS			SKANAL			Volumen			I	
				Bez.	Type	Anzahl	Qmax	Scheitel Datum	Qm	Q>Qm	Dmax	Dauer Datum	Dm	D>Dm	Vmax	Datum	Vm	V>Vm		
I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	
I	RUEB8	DLB N	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	RUEB9	DLB N	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	SKO2a	SKO H	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	RUEB5	DLB N	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	SKO2b	SKO H	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	RUEB7	DLB H	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	RUEB1	DLB N	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	RUEB4	FGB H	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	RUEB3neu	DLB N	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	RUEB6neu	DLB H	I	0	I	0.000	0- 0-	0	0.000	0	0.0	0- 0-	0	0.0	0	0.000	0- 0-	0	0.000	0
I	Bl28	DLB N	I	6855	I	44.839	12-12-2003		0.999 2197	I	15.3	21-12-1991		1.1 2065	I	118.175	12-12-2003		2.559 1395	I

Simulation: C:\PROGRAMME\SMUSI5\TEMP\~~temp.*

erzeugt am: 24.03.2020 14:31:33

Import am: 24.03.2020 14:36:57

Summenwerte der Simulation (*.SUM)

Stadt Viechtach										SMUSI 5.2																		
Prognose-Zustand saniert (2020)																												
Bilanzierungszeitraum : 1. 1.1961 0:00 - 29.12.2006 0:00										Niederschlagshoehe (mm/a) : 899.52 Niederschlagsdauer (h/a) : 528.82																		
***** * Schmutzfrachten ausgewaehlter Stoffe * *****																												
I-----I	B a u w e r k			I-----I	Z u l a u f							I-----I	E n t l a s t u n g							I-----I	s p e z. E n t l a s t u n g							I-----I
I	Name		Bez.	I	AFS	BSB5	CSB	TOC	NH4-N	PO4-P		I	AFS	BSB5	CSB	TOC	NH4-N	PO4-P		I	AFS	BSB5	CSB	TOC	NH4-N	PO4-P		I
I-----I				I-----I								I-----I								I-----I								I-----I
I				I	SFz	10**	1	kg/a				I	SFe	10**	1	kg/a				I	SFe(ges)/Au(ges)	kg/(ha.a)						I
I-----I				I-----I								I-----I								I-----I								I-----I
I	RUEB8		RUEB8	m	1261	510	1424	475	39	28		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	RUEB9		RUEB9	m	360	75	331	110	6	5		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	SKO2a		SKO2a	h	1210	432	1304	435	33	25		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	RUEB5		RUEB5	m	2210	706	2295	765	55	42		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	SKO2b		SKO2b	h	289	90	297	99	7	5		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	RUEB7		RUEB7	m	1007	260	980	327	21	16		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	RUEB1		RUEB1	m	1493	416	1484	495	33	26		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	RUEB4		RUEB4	h	5936	1960	6229	2079	152	115		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	RUEB3neu		RUEB3neu	m	6275	2054	6570	2190	159	121		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	RUEB6neu		RUEB6neu	m	5372	1681	5538	1847	131	100		I	0	0	0	0	0	0	0	I	0	0	0	0	0.0	0.0		I
I				I								I								I							I	
I	IFiktives Zentralbecken		B128	-	115842	55761	6998	5667	429	322		I	4294	545	3571	1190	48	45		I	347	44	288	96	3.9	3.7		I
I				I								I								I							I	
I-----I				I-----I								I-----I								I-----I								I-----I
I	Summe (Fracht)			I	115843	55761	7001	5668	429	322		I	4294	545	3571	1190	48	45		I	347	44	288	96	3.9	3.7		I
I	Entnommene Frachten			I	0	0	0	0	0	0		I								I								I
I-----I				I-----I								I-----I								I-----I								I-----I
I	Kläranlage (Regen)		KLA	I	11549	5031	13430	4478	380	276		I	2023	810	2423	810	405	121		I	163	65	196	65	32.7	9.8		I
I				I								I								I							I	
I	(Trock)			I								I	1953	781	2344	781	391	117		I	158	63	189	63	31.6	9.5		I
I-----I				I-----I								I-----I								I-----I								I-----I

Simulation: C:\PROGRAMME\SMUSI5\TEMP\~~temp.*

erzeugt am: 24.03.2020 14:31:33

Import am: 24.03.2020 14:36:57

Summenwerte der Simulation (*.SUM)

Stadt Viechtach
Prognose-Zustand saniert (2020)

SMUSI 5.2

Bilanzierungszeitraum : 1. 1.1961 0:00 - 29.12.2006 0:00

Niederschlagshoehe (mm/a) : 899.52
Niederschlagsdauer (h/a) : 528.82

* Wirkung der Mischwasserbehandlung *

Bauwerk		Entlastungsfracht ohne MB						Entlastungsfracht mit MB						Wirkungsgrad der MB					
Bez.	WMB-Typ	AFS	BSB5	CSB	TOC	NH4-N	PO4-P	AFS	BSB5	CSB	TOC	NH4-N	PO4-P	AFS	BSB5	CSB	TOC	NH4-N	PO4-P
		SFoMB 10** 0 kg/a						SFmMB 10** 0 kg/a						etaMB = 1-SFmMB/SFoMB (%)					
RUEB8		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
RUEB9		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
SKO2a		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
RUEB5		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
SKO2b		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
RUEB7		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
RUEB1		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
RUEB4		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
RUEB3neu		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
RUEB6neu		0	0	0	0	0	0	0	0	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0
B128		59189	8332	50110	16703	722	660	42939	5446	35711	11904	482	453	27.5	34.6	28.7	28.7	33.3	31.4
Summe/Mittel		59189	8332	50110	16703	722	660	42939	5446	35711	11904	482	453	27.5	34.6	28.7	28.7	33.3	31.4

Simulation: C:\PROGRAMME\SMUSI5\TEMP\~~temp.*

erzeugt am: 24.03.2020 14:31:33

Import am: 24.03.2020 14:36:57

Summenwerte der Simulation (*.SUM)

Stadt Viechtach														SMUSI 5.2										
Prognose-Zustand saniert (2020)																								
Bilanzierungszeitraum : 1. 1.1961 0:00 - 29.12.2006 0:00														Niederschlagshoehe (mm/a) : 899.52 Niederschlagsdauer (h/a) : 528.82										
***** * Kenngrößen der Trenngebiete * *****																								
I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	
I	Bez.	K	I	Flaechen +	Einwohner	I	Volumina		I	Frachten										I				
I	I	I	I	Ages	VG	EW	mxQt	I	V-Netz	V-VorFl	I	AFS	BSB5	CSB	TOC	NH4-N	PO4-P	I	AFS	BSB5	CSB	TOC	NH4-N	PO4-P
I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	
I	I	I	I	ha	-	-	l/s	I	Tsdcbm/a	Tsdcbm/a	I	Fracht in Kanalnetz in 10** 3 kg/a				I	Fracht in Vorfluter in 10** 3 kg/a				I			
I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	
I	T52	I	I	4.9 0.01	0	2.6	I	464.299	40.649	I	3	2	4	1	0	0	I	0	0	0	0	0	0	0
I	T72	I	I	1.3 0.01	25	0.1	I	25.221	10.858	I	0	0	0	0	0	0	I	0	0	0	0	0	0	0
I	T73	I	I	6.3 0.01	76	0.4	I	76.599	53.168	I	0	0	1	0	0	0	I	0	0	0	0	0	0	0
I	T82	I	I	15.2 0.01	292	3.3	I	587.279	128.406	I	4	3	6	2	0	0	I	0	0	0	0	0	0	0
I	92	I	I	8.2 0.01	157	0.9	I	158.125	67.243	I	1	1	2	1	0	0	I	0	0	0	0	0	0	0
I	T12	I	I	6.5 0.01	158	0.9	I	159.244	53.236	I	1	1	2	1	0	0	I	0	0	0	0	0	0	0
I	T2A2	I	I	52.8 0.01	1013	5.8	I	1022.076	440.616	I	6	5	10	3	0	0	I	0	0	0	0	0	0	0
I	T2B2	I	I	13.8 0.01	264	1.5	I	266.745	112.498	I	2	1	3	1	0	0	I	0	0	0	0	0	0	0
I	T53	I	I	4.9 0.01	0	2.0	I	314.193	40.566	I	3	2	4	1	0	0	I	0	0	0	0	0	0	0
I	T42	I	I	9.3 0.01	76	0.3	I	51.911	78.177	I	0	0	1	0	0	0	I	0	0	0	0	0	0	0
I	T74	I	I	1.0 0.01	20	0.1	I	13.682	8.741	I	0	0	0	0	0	0	I	0	0	0	0	0	0	0
I	T2B3	I	I	3.0 0.01	58	0.3	I	39.605	25.296	I	0	0	1	0	0	0	I	0	0	0	0	0	0	0
I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	
I	Summen	I	I	127.2 0.01	2139	18.4	I	3178.980	1059.455	I	21	16	32	11	1	1	I	1	0	1	0	0	0	0
I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	I-----I	