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4 November 2010

Glenn Colquhoun Development Director - Shell Cove Australand Corporation (NSW) Pty Ltd Address

Dear Glenn,

# RESPONSES TO DEPARTMENT OF PLANNING AND COUNCIL COMMENTS ON THE BOAT HARBOUR PRECINCT ENVIRONMENTAL ASSESSMENT

# **1 INTRODUCTION**

This letter has been prepared to provide responses to issues raised by the New South Wales Department of Planning (*DoP*) and Shellharbour City Council (*Council*) regarding the Environmental Assessment (*EA*) submitted for the Shell Cove Boat Harbour Precinct.

The EA was submitted by LFA on behalf of Australand in March 2010. Issues addressed within this letter can be referenced within correspondence received from the DoP and Council dated 4 June 2010 and 23 April 2010 respectively. This letter will address comments made in the aforementioned correspondence regarding flooding and water cycle management.

# 2 FLOODING

Both DoP and Council have commented on the flooding component of the EA. Flooding comments relate to, viz:

- Flood Planning Levels and Climate Change;
- additional flood mapping information;
- Council's Floodplain Risk Management DCP and flood risk; and
- clarification of 1-Dimensional and 2-Dimensional modelling.

Responses addressing the issues raised by the DoP and Council are addressed under the following sub-headings.

# 2.1 Department of Planning Comments

The DoP engaged an external consultant to provide specialist advice on the hydrological and some geo-technical aspects of the EA. The DoP consolidated these comments into a list of key

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issues provided in correspondence dated 4 June 2010. The key issues are stated and addressed individually under the following sub-headings.

# 2.1.1 Provide a full explanation of the Flood Planning Level. It would be more prudent to use 0.9m in accordance with the Draft NSW Coastal Planning Guideline Adapting to Sea Level Rise

The EA documents the evolution of flood modelling within the Boat Harbour Precinct. At the time of preparing the Boat Harbour Precinct flood model, sea level rise was addressed by the 2007 Department of Environment and Climate Change publication, 'Practical Considerations of Climate Change'. This document provided low, medium and high climate change scenarios.

The EA adopted the medium range scenario to incorporate the impacts of climate change into the Flood Planning Level and additionally assessed the sensitivity of the high climate change scenario coupled with an increase in rainfall intensity of 30%.

Since the submission of the EA, the NSW DoP has issued the 'NSW Coastal Planning Guideline Adapting Sea Level Rise, August 2010'. This guideline recommends that a year 2100 sea level rise of 0.90 m should be incorporated into Flood Planning Levels. Accordingly, the Boat Harbour Precinct will adopt this recommendation into Flood Planning Levels adjacent to Boat Harbour and the major overland flow paths identified in the EA submission.

In summary, the revised Flood Planning Level for areas adjacent to the Boat Harbour and major overland flow paths will be based upon:

the 100 year ARI flood level plus 0.90 m sea level rise (for the year 2100) plus 0.50 m (to comply with Council's freeboard requirement).

# 2.1.2 Provide a map showing the FPL (refer to Figure 5 of Draft NSW Coastal Planning Guideline Adapting to Sea Level Rise)

The Boat Harbour Precinct will adopt a Flood Planning Level equivalent to the 100 year Average Recurrence Interval (ARI) peak water surface level with an additional 0.90 m (provided for the year 2100 sea level rise prediction) and a further 0.50 m freeboard (in accordance with Council guidelines).

The preparation of a FPL map in accordance with Figure 5 of the NSW Coastal Planning Guideline Adapting to Sea Level Rise is proposed to be undertaken with the subsequent project applications when more detailed definition of final design levels is available. This will include localised flood modelling for each stage of the Boat Harbour Precinct to demonstrate compliance with the NSW Coastal Planning Guideline Adapting to Sea Level Rise.

# 2.1.3 The mitigation measures identified to reduce impacts on flood levels in the vicinity of Ron Costello Oval should be covered in the Statement of Commitments

There are some minor increases and decreases in flood levels within Shellharbour Village for the 100 year ARI event. A decrease in the range of 0.01m to 0.05m is predicted along the northern boundary of the site and part of Boollwarroo Parade. The maximum increase is predicted to be 0.02m to 0.03m to the north of Ron Costello Oval. These increases are not significant; consequently mitigation measures are not proposed because:



- The predicted minor increases are localised to a small area and unlikely to have any significant or measurable impact;
- The increase is negligible in the context of sea level rise impacts of up to 0.9m; and
- The overall result is positive with most effected properties within Shellharbour Village benefiting from a minor reduction in flood levels in the 100 year ARI event and a significant reduction in the PMF event.

# 2.2 Shellharbour City Council Comments

The DoP has provided the responses to the Boat Harbour Precinct for both public and agency submissions in a letter dated 23 April 2010. Within this letter, Council provides a series of comments about flooding assessment contained within the EA. Responses to Council's comments are provided below under the relevant sub-headings.

# 2.2.1 Council's Flood Policy

The Boat Harbour Precinct has been prepared with due consideration of flood risk, as required by Council's Flood Plain Risk Management Development Control Plan (and the NSW Flood Plain Development Manual, 2005).

The external consultant engaged by DoP to provide specialist advice has commented that Appendix F of the EA provides a comprehensive assessment of flood risk and compliance is satisfactorily demonstrated with the NSW Flood Plain Development Manual and Council's Flood Plain Risk Management DCP.

Flood risk will be assessed in all future project plan applications for consistency with the concept plan and compliance against the NSW FDM, 2005 and Council's FRM DCP.

# 2.2.2 1-Dimensional and 2-Dimensional flood modelling techniques

Flood modelling was undertaken by Cardno Lawson Treloar using SOBEK modelling software.

SOBEK utilises both 1-Dimensional and 2-Dimensional modelling techniques. Flow within dedicated water courses (*i.e., creeks, culverts, channels, etc*) are modelled as 1-Dimensional until such a time when the bank of the water course is overtopped. Flood behaviour beyond the banks is modelled as 2-Dimensional. The flooding extents documented within **Appendix F** of the EA are 2-Dimensional.

### 2.2.3 Climate Change

As outlined in **Section 2.1.1** the incorporation of sea level rise for the Boat Harbour Precinct will adopt a year 2100 sea level rise of 0.90 m. This is in accordance with the recommendations made in the *NSW Coastal Planning Guideline Adapting to Sea Level Rise, August 2010.* 

The impacts of climate change have been considered for the 5 year and 100 year ARI and PMF event. The 100 year ARI flood is the basis for flood planning. The impact of 0.9m sea level rise on the 5 year and 100 year ARI and PMF storm events will be undertaken during detailed design phases of the Boat Harbour Precinct.





# **3 WATER CYCLE MANAGEMENT**

Both DoP and Council have commented on the above report as part of their respective responses to the Boat Habour Precinct EA. Comments relate to, viz:

- how proposed Water Sensitive Urban Design (WSUD) measures will meet reduction targets;
- clarification of the extent of pollutant reductions from the pre-development and postdevelopment condition;
- efficiency and hydraulic residence time of constructed wetlands;
- compliance with pollutant reduction targets for all stages of the development; and
- details of stormwater quality modelling provided.

While responses to the detailed issues raised are set out below, it is important to acknowledge that the detailed stormwater quality management processes, including the stormwater treatment train system, have formed an integral part of the detailed stormwater quality assessments that have resulted in Ministerial consents including:

- Determination of Development Application No. 95/133 (26 November 1996); and
- Notice of Modification to Development Consent (6 September 2004).

The objective of the adopted stormwater management strategies has been to match the predevelopment pollutant concentrations at the Shellharbour Swamp / Tasman Sea confluence.

Accordingly, part of the defined stormwater quality control treatment train has already been implemented with approximately 36% of the total wetland area already in place. A further 38% is planned to be constructed in association with the development of Shell Cove Stages 9 and 10, which lay outside the Boat Harbour Precinct. The balance of the wetlands (*i.e., 26%*) will be located within the Boat Harbour Precinct.

# 3.1 Department of Planning Comments

The DoP engaged an external consultant to provide specialist advice on the hydrological and some geo-technical aspects of the EA. The DoP consolidated these comments into a list of key issues provided in correspondence dated 4 June 2010. The key issues are stated and addressed individually under the following sub-headings.

## 3.1.1 Clarify how you are proposing to link the various water treatment measures and demonstrate how the measures will meet the reduction targets of TSS 85%, TP 45% and TN 45% for annual pollutant loads

It is important to note that the Stormwater Quality Management Strategy considered the Department of Environment and Conservation (*DEC*) guidelines as presented in '*Managing Urban Stormwater: Council Handbook*', Environmental Protection Authority (1996). This document states the following reduction targets:

• 80% reduction in average annual loads for Total Suspended Solids;



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- 45% reduction in average annual loads for Total Phosphorus; and
- 45% reduction in average annual loads for Total Nitrogen.

The stormwater quality modelling tool MUSIC was used to estimate the average annual pollutant loads generated by the proposed development and to determine the efficiency of the proposed WSUD measures.

The Boat Harbour Precinct will include a suite of WSUD measures, including rainwater tanks, bioretention swales, bio-retention basins, gross pollutant traps and constructed wetlands. The Stormwater Quality Management Strategy proposes arrangement of these measures in a strategic fashion throughout the development to utilise a *"treatment train"* approach to stormwater quality improvement. Rainwater tanks will be provided on each residential lot and other measures will be incorporated into the Boat Harbour Precinct in accordance with **Figure 2** of **Sub-Appendix B** of **Appendix B** of the EA.

A site grading plan has been developed for the Boat Harbour Precinct that considers the requirement to drain stormwater runoff to the Harbour via the proposed WSUD measures. The proposed drainage network and WSUD "*treatment train*" result in the following average annual reductions in pollutant loads:

- Total Suspended Solids 82%;
- Total Phosphorus 57%; and
- Total Nitrogen 47%.

## 3.1.2 Clarification is required on Table 3.1 and 3.2 (page 22 of main Appendix B). The reduction percentages in Table 3.2 do not appear to match with the pollutant load removal values in Table 3.1

The Stormwater Quality Management Strategy had been prepared to demonstrate that the Boat Harbour Precinct development does not discharge increased volumes of Total Suspended Solids, Total Phosphorus and Total Nitrogen at Shellharbour South Beach than in the existing scenario. Additionally, the Stormwater Quality Management Strategy satisfies the DEC guidelines.

The existing (*i.e., pre-development*) pollutant concentrations were subject to thorough investigation and modelling works. **Section 3** of **Sub-Appendix B** of **Appendix B** of the EA details the measures that were taken to verify the existing Event Mean Concentrations for the predevelopment catchment. The efficiency of Shellharbour Swamp was included when estimating the existing stormwater pollutants being discharged at Shellharbour South Beach. Extensive documentation has been prepared on the derivation of existing stormwater pollutant loads, such documentation includes:

- *Shell Cove Boat Harbour Precinct Stormwater Quality Management Strategy*, WorleyParsons, September 2009;
- *Shell Cove Stormwater Quality Management Issue No. 1*', Patterson Britton and Partners, 2005;
- 'Shell Cove Master Plan Review, final report on water management', GHD, 1999; and



• 'Shell Cove Commission of Inquiry, Report on Stormwater Issues for Submission in Reply', GHD, 1996.

By way of clarification **Table 1** below nominates the average annual pollutant loads arriving at Shellharbour South Beach for the existing, the developed (untreated) and developed (treated). The percentage reductions between the existing and developed (treated); and between developed (untreated) and developed (treated) are shown in **Table 2**.

Table 1 Average Annual Pollutant Loads – Shellharbour South Beacl
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				Average Ann	ual Pollutant L	oad (kg/year)							
Location	Si	uspended Solid	ds	Т	otal Phosphoru	JS	Total Nitrogen						
	Existing	Developed (untreated)	Developed (treated)	Existing	Developed (untreated)	Developed (treated)	Existing	Developed (untreated)	Developed (treated)				
Shellharbour South Beach	70,700 262	2,000 46,700		202	429	185	1,840	3,290	1,750				

### Table 2 Pollutant Reductions at Shellharbour South Beach

Existing	and Developed (treated)	Developed (untreated) and Developed (treated)
Suspended Solids	34%	82%
Total Phosphorus	8%	57%
Total Nitrogen	5%	47%

# 3.1.3 Consideration of additional aspects

The DoP has identified a series of items that should be considered. These items are nominated and responded to under the following sub-headings.

#### 3.1.3.1 Construction impacts on water quality for different stages of the development

It is proposed to stage the construction of the Boat Harbour Precinct. The nature of the staging plan will require the bulk of stormwater infrastructure to be built during the early stages of the development. Thus, it is likely that the stormwater quality will exceed the anticipated performance up until the construction of the Boat Harbour Precinct is finalised.

Supporting documentation for the interim scenarios (*i.e., each stage*) will also address Sediment and Erosion Control in accordance with Council's requirements and the "*Blue Book*".

#### 3.1.3.2 Impact of major flood events on the proposed systems

The majority of WSUD mechanisms within the Boat Harbour Precinct are "on-line". That is, they coincide with designated overland flow paths. Thus, WSUD mechanisms will need to be designed to accommodate storm events up to the 100 year ARI event. This can be readily achieved by:

- appropriate design of inlet structures;
- appropriate design of outlet structures;





provision of adequate deep water zones to limit damage to macrophytes within the constructed wetlands;

#### 3.1.3.3 Whether on-site detention is proposed

Given the downstream location of the Boat Harbour Precinct catchment (i.e., immediately adjacent to the ocean) there is no requirement to preserve existing downstream flow regimes or infrastructure. Thus, on-site detention is not proposed. However, the flooding extents documented within the EA include existing on-site detention upslope of the Boat Harbour Precinct.

3.1.3.4.1 Impacts of seepage of flows from stormwater treatment devices and the impact on local ground water quality

The proposed WSUD features do not intercept the proposed ground water table for the Boat Harbour Precinct. Thus, the stormwater treatment devices are expected to have no significant impact on ground water quality.

3.1.3.5.1 A water quality monitoring program during and post construction to ensure the proposed treatment rates will be met

A water quality monitoring program has previously been undertaken on Wetland #1 to assess urban pollutant loads and wetland treatment efficiency for a typical residential catchment. This monitoring confirms the conservative basis of the treatment train proposed in the EA. An ongoing water quality monitoring program is required under the Boat Harbour Consent. No further post construction monitoring is proposed.

3.1.4 The MUSIC predictions are less than the EPA curves which indicates that the wetlands are not sufficient enough. Table 5.6 (page 18 of sub Appendix B) presents MUSIC predictions for the pollutant reductions for the wetlands for the TSS, TP and TN parameters. From a comparison of the MUSIC predictions versus the EPA curves it appears that many of the wetlands are not meeting EPA curves. Clarify this issue

The topography of the Boat Harbour Precinct has provided a number of constraints that control the placement of wetlands. Whilst individual constructed wetlands may not, when viewed in isolation meet the performance of the EPA curves, they form a necessary component of the overall treatment train which achieves the required pollutant reduction targets.

3.1.5 Some of the wetland properties are not consistent e.g. wetland no. 1 is not the largest wetland and it does not have the greatest volume yet its hydraulic residence time specified in Table 5.9 is between 3-7 times larger than other wetlands. Provide an explanation of how hydraulic residence times were estimated in sub-Appendix B Table 5.9

The hydraulic residence times nominated in Table 5.9 of Sub-Appendix B of Appendix B of the EA were approximated based upon the permanent pool volume within each wetland and based upon the mean daily runoff into the corresponding constructed wetland. Table 3 below summarises the hydraulic residence times for each of the constructed wetlands.





Wetland Esti	mated Hydraulic Residence Time (days)	Permanent Pool Volume (m <sup>3</sup> )	Average Annual Runoff (ML/year)
1 19		5955	113
1a 6		1655	94
2 1		514	168
2b 2		925	168
3a 2		3430	503
3b 3		3570	497
5 5		8000	648
6a 1		1750	742
6b 2		3220	739
7 12		3500	103

#### Table 3 Constructed Wetlands Hydraulic Residence Times

The hydraulic residence times nominated above in **Table 3** have not been used to estimate the efficiency of a constructed wetland in removing stormwater pollutants. MUSIC utilises accepted algorithms to estimate the hydraulic residence time and performance of a constructed wetland based upon surface area, permanent pool volume, outlet characteristics and extended detention depth.

# 3.2 Shellharbour City Council Comments

Council has provided the responses to the Boat Harbour Precinct for both public and agency submissions in a letter dated 23 April 2010. Within this letter, Council provides a series of comments about the stormwater quality management strategy contained within the EA. Responses to Council's comments are provided below under the relevant sub-headings.

### 3.2.1 Staging

Refer Section 3.1.3.1.

### 3.2.2 Existing water quality data

The approach to estimating existing stormwater runoff pollutant concentrations was outlined in **Section 3** of Sub-Appendix B of Appendix B of the EA.

In summary, it was decided to adopt existing EMC values based on the statistical overview undertaken by Duncan in 1999 and then updated in 2004. The adopted EMC values generated lower concentrations of stormwater pollutants than the collected data. Thus, the adoption of Duncan's EMC values should be considered as conservative (*i.e., the EMC values are under estimating existing pollutant loads which must not be exceeded in the proposed scenario*).





## 3.2.3 MUSIC results

The MUSIC results are summarised in **Table 1** and **Table 2** of this letter. Additionally, MUSIC outputs have been included as **Attachment 1** for information.

# **4** CONCLUSION

We trust that the information contained within this letter is to your satisfaction. Should you require any additional information please do not hesitate to contact me on (02) 8456 7225.

Yours faithfully WorleyParsons

Sean PORTER Engineer





# ATTACHMENT 1 MUSIC OUTPUTS

4 November 2010

Source nodes																
Location	Sub-Catch M	Sub-Catch N	Sub-Calch 0	Sub-Catch P	Remant Vegetation P	Sub-Calch L	Sub-Catch Q	Sub-Catch B	Sub-Calch C	Sub-Calch K2	Sub-Calch K1	Sub-Catch D	Sub-Catch H	Sub-Catch G1	Sub-Catch J2	Sub-Calch F2
ID	1	1	2 3	3 4		i 6	7	. 8	9	19	20	21	22		24	25
Node Type	UrbanSourceNode	UrbanSourceNode	UrbanSourceNode	UrbanSourceNode	ForestSourceNode	UrbanSourceNode	UrbanSourceNode	UrbanSourceNode		UrbanSourceNode			UrbanSourceNode			
Total Area (ha)	18.683	30.873	6,205	5 5.266	3.52		13.897	2.758	2.848		21.028	6.585				7.419
Area Impervious (ha)	9.3415	15.4365	3.075012939	9 2,633	(		6.9485	1.122433421	1.133828772		10.42084965	3.525863158	0.955473684		0.566502632	4.432527105
Area Pervious (ha)	9.3415	15.4365	3,129987061		3.52			1.635566579	1.714171228		10.60715035	3.059136842	1.444526316		0.810497368	2.986472895
Field Capacity (mm)	135	135	5 135	5 135	135			135								135
Pervious Area Infiltration Capacity coefficient - a	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Pervious Area Infiltration Capacity exponent - b	1	1	1	1 1	1	1	1	1	<u> </u>	1		1	1	1	3.5	
Impervious Area Rainfall Threshold (mm/day)	3.5	3.5		5 3.5				3.5	3.5							
Pervious Area Soil Storage Capacity (mm)	170	170	170	0 170				170								
Pervious Area Soil Initial Storage (% of Capacity)	. 30	30	30	0 30												
Groundwater Initial Depth (mm)	50	50		50	50			50	50			50	50			
Groundwater Daily Recharge Rate (%)	25	28	28	5 25	25	i 25	25	25			25	20	25		23	- 47
Groundwater Daily Baseflow Rate (%)	5	6	58	5 5	6	55	5	5	5	· · · · · · · · · · · · · · · · · · ·						
Groundwater Daily Deep Seepage Rate (%)	0	(	<u> </u>	0 0	0	0	0		0			2.15	·		-	2.15
Stormflow Total Suspended Solids Mean (log mg/L)	2.15	2,15						2.15				0.39				
Stormflow Total Suspended Solids Standard Deviation (log mg/L)	0.39	0.39	0.39		0.2			0.39					Stochastic	Stochastic	Stochastic	Stochastic
Stormflow Total Suspended Solids Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic		0.0010300		1
Stormflow Total Suspended Solids Serial Correlation	0	<u> </u>	<u> </u>	0 <u>0</u>			0	0	-0.6	-0.6	· · · · · · · · ·	-0.6	-0.6	-0.6	-0.6	-0.6
Stormflow Total Phosphorus Mean (log mg/L)	-0.6							-0.6	-0.6				0.31			0.31
Stormflow Total Phosphorus Standard Deviation (log mg/L)	0.31						0.31 Stochastic	U.31 Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic
Stormflow Total Phosphorus Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	ISIOCNASUC		SIUCHASIIC			000010300	0.00010400	0.0310300			0
Stormflow Total Phosphorus Serial Correlation	0	0.3		0 3 0.3	-0.075	0.3	0.3	0.3	0.3	0.3		0.3	0.3			0.3
Stormflow Total Nitrogen Mean (log mg/L)	0.3			-		1		0.23					0.23			0.23
Stormflow Total Nitrogen Standard Deviation (log mg/L)	0.23	0.23		3 0.23 Stochastic			0.23 Stochastic	Slochastic	Stochastic	Stochastic	Stochastic	Slochastic	Stochastic	Stochastic	Stochastic	Stochastic
Stormflow Total Nitrogen Estimation Method	Stochastic	Stochastic	Stochastic	Stochasuc	Slochastic	Siochastic	Stochastic			01001113110	0.000/0320	0.0001110000		0	0	0
Stormflow Total Nitrogen Serial Correlation	0	1.1		1 1.1	0.51	1.1	1.1	1.1	1.1	1.1	1.1	11	1.1	1.1	1.1	1,1
Baseflow Total Suspended Solids Mean (log mg/L)	1.1							0.34					0.34	0.34	0.34	0.34
Baseflow Total Suspended Solids Standard Deviation (log mg/L)		Stochastic	Slochastic	Stochastic	Stochastic 0.20	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochaslic	Stochastic	Stochastic
Baseflow Total Suspended Solids Estimation Method Baseflow Total Suspended Solids Serial Correlation	Stochastic					101001123110	0100416350	0100112320	010010000	0 0	0	0	0 0	0	0 O	0
Baseflow Total Phosphorus Mean (log mg/L)	-0.97	-0.97	.0.97	7 -0.97	-1.79	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97	-0.97
Baseflow Total Phosphorus Standard Devlation (log mg/L)					0.28		0.31				0.31		0.31	0.31	0.31	0.31
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Baseflow Total Phosphorus Estimation Method	0.31 Stochastic	0.31 Stochastic	Stochastic	Stochastic	Stochastic	U.31 Stochastic		U.31 Stochastic 0	Stochastic 0.31							
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Baseflow Total Phosphorus Estimation Method Baseflow Total Phosphorus Serial Correlation Baseflow Total Nitrogen Mean (log mg/L) Baseflow Total Nitrogen Standard Deviation (log mg/L) Baseflow Total Nitrogen Estimation Method	Stochastic 0 0.2	Stochastic 0.2	Stochastic 0 0.2	Stochastic         0         0           2         0.2         0.2           2         0.2         0.2	Stochastic 0 -0.59 0.22	Stochastic 0 0.2 0.2	Stochastic 0 0.2 0.2	Stochastic 0 0.2 0.2	Stochastic 0 0.2 0.2	Stochastic 0 0.2 0.2 Stochastic 0 0	Stochastic 0.2 0.2 Stochastic 0	Stochastic 0.2 0.2 Stochastic	Stochastic 0.2 0.2 Stochastic 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic 0.2 0.2 Stochastic 0 0	Stochastic 0 0.2 0.2 Stochastic 0	Stochastic 0.2 0.2 Stochastic 0
Baseflow Total Phosphorus Estimation Method Baseflow Total Phosphorus Serial Correlation Baseflow Total Nitrogen Mean (log mg/L) Baseflow Total Nitrogen Standard Deviation (log mg/L) Baseflow Total Nitrogen Estimation Method Baseflow Total Nitrogen Serial Correlation	Stochastic 0 0.2 0.2 Stochastic 0	Stochastic 0.2 0.2	Stochastic 0.2 0.2 0.2 Stochastic	Stochastic 0 0 2 0.2 2 0.2 2 0.2 Stochastic 0 0 0	Stochastic C -0.69 0.22 Stochastic C	Stochastic 0.2 0.2 Stochastic 0	Stochastic 0 0.2 0.2	Stochastic 0 0.2 0.2	Stochastic 0.2 0.2 Stochastic 0	Stochastic 0 0.2 0.2 0.2 Stochastic 0 51.9	Stochastic 0.2 0.2 Stochastic 0 103	Stochastic 0.2 0.2 Stochastic 0.2 Stochastic 0.2 Stochastic 0.2 Stochastic 0.2 Stochastic	Stochastic         0           0         0.2           0.2         0.2           Stochastic         0           0         0.1           0         0.2	Stochastic O.2 Stochastic 4.66	Stochastic         0           0.2         0.2           Stochastic         0           0.2         0.2           Stochastic         0           0         0.0	Stochastic 0,2 0,2 Stochastic 0 40,2
Baseflow Total Phosphorus Estimation Method Baseflow Total Phosphorus Serial Correlation Baseflow Total Nitrogen Mean (log mg/L) Baseflow Total Nitrogen Standard Deviation (log mg/L) Baseflow Total Nitrogen Estimation Method Baseflow Total Nitrogen Serial Correlation OUT - Mean Annual Flow (ML/yr)	Stochastic 0 0.2 0.2	Stochastic 0.2 0.2 Stochastic	Stochastic         0         0         0         0         0         0         2         2 <th2< td=""><td>Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8</td><td>Stochastic C -0.69 0.22 Stochastic C</td><td>Stochastic 0.2 0.2 Stochastic 0 138 2.61E+04</td><td>Stochastic 0 0 2 0 2 Stochastic 0 68 1.32E+04</td><td>Slochastic 0.2 0.2 Slochastic 0 12.2 2.25E+03</td><td>Stochastic 0.2 0.2 Stochastic 0 12.5 2.31E+03</td><td>Stochastic           0           0.2           0.2           Stochastic           0           0           0           0.2           Stochastic           0           0           0.1           0.2     &lt;</td><td>Stochastic 0.2 0.2 Stochastic 0 103 1.91E+04</td><td>Stochastic 0.2 Stochastic 0 33.6 6.50E+03</td><td>Stochastic 0.2 0.2 0.2 Stochastic 0 10.5 2.03E+03</td><td>Stochastic         0.2           Stochastic         0.2           Stochastic         0.2           Stochastic         0.2          </td><td>Stochastic 0.2 0.2 Stochastic 0 6.09 1.14E+03</td><td>Stochastic 0.2 0.2 Stochastic 0 40.2 7.93E+03</td></th2<>	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8	Stochastic C -0.69 0.22 Stochastic C	Stochastic 0.2 0.2 Stochastic 0 138 2.61E+04	Stochastic 0 0 2 0 2 Stochastic 0 68 1.32E+04	Slochastic 0.2 0.2 Slochastic 0 12.2 2.25E+03	Stochastic 0.2 0.2 Stochastic 0 12.5 2.31E+03	Stochastic           0           0.2           0.2           Stochastic           0           0           0           0.2           Stochastic           0           0           0.1           0.2     <	Stochastic 0.2 0.2 Stochastic 0 103 1.91E+04	Stochastic 0.2 Stochastic 0 33.6 6.50E+03	Stochastic 0.2 0.2 0.2 Stochastic 0 10.5 2.03E+03	Stochastic         0.2           Stochastic         0.2           Stochastic         0.2           Stochastic         0.2	Stochastic 0.2 0.2 Stochastic 0 6.09 1.14E+03	Stochastic 0.2 0.2 Stochastic 0 40.2 7.93E+03
Baseflow Total Phosphorus Estimation Method Baseflow Total Phosphorus Serial Correlation Baseflow Total Nitrogen Mean (log mg/L) Baseflow Total Nitrogen Standard Deviation (log mg/L) Baseflow Total Nitrogen Estimation Method Baseflow Total Nitrogen Serial Correlation	Stochastic 0.2 0.2 Stochastic 0 91.5	Stochastic C 0.2 0.2 Stochastic C 151	Stochastic 0.2 0.2 Stochastic 0.4 5.83E+00 9.33	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02	Stochastic -0.55 0.22 Stochastic 0 8.03 441	Stochastic 0.2 0.2 Stochastic 0 138 2.61E+04	Stochastic 0 0.2 0.2 Stochastic 0 68	Slochastic 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83	Stochastic 0.2 0.2 Stochastic 2.31E+03 3.76	Stochastic           0         0.2           0.2         0.2           Stochastic         0           0         0.3           51.9         9.86E+03           1         16	Stochastic 0.2 0.2 0.2 Stochastic 0 103 1.91E+04 31.4	Stochastic 0,2 0,2 Stochastic 6,50E+03 10,5	Stochastic         0           0         0.2           0.2         0.2           Stochastic         0           10.5         10.5           2.03E+03         3.12	Stochastic         0.2           0.2         0.2           Stochastic         0.2           4.66         896           1.42         1.42	Stochastic         0           0.2         0.2           Stochastic         0           1.14E+03         1.14E+03	Stochastic         0           0.2         0.2           Stochastic         0           40.2         7.93E+03           12.6         12.6
Baseflow Total Phosphorus Estimation Method Baseflow Total Phosphorus Serial Correlation Baseflow Total Nitrogen Mean (log mg/L) Baseflow Total Nitrogen Standard Deviation (log mg/L) Baseflow Total Nitrogen Estimation Method Baseflow Total Nitrogen Serial Correlation OUT - Mean Annual Flow (ML/yr) OUT - TSS Mean Annual Load (kg/yr)	Stochastic 0.2 0.2 Stochastic 0 91.5	Stochastic 0.2 0.2 Stochastic 0 151 2.82E+04	Stochastic 0.2 Stochastic 0.3 Stochastic 0.3 0.4 5.83E+03	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02	Stochastic -0.55 -0.52 Stochastic 0 8.03 441	Siochastic 0.2 0.2 Siochastic 0 138 2.61E+04 4.1 318	Stochastic 0 0 2 0 2 Stochastic 0 68 1.32E+04 20.8 155	Stochastic 0 0.2 Stochastic 2.25E+03 3.83 26.9	Stochastic 0.2 0.2 Stochastic 2.31E+03 3.76 2.7.9	Stochastic           0         0.2           0.2         0.2           Stochastic         0           0         0.3           5         51.9           0         9.86E+03           0         16           118         118	Slochastic 0.2 0.2 Slochastic 0 103 1.91E+04 3 1.91E+04 230	Stochastic 0.2 Stochastic 6.50E+03 0.2 6.50E+03 76.6	Stochastic 0.2 0.2 Stochastic 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Stochastic 0.2 0.2 Stochastic 0 0 0 0 0 0 0 0 0 0 0 0 0	Stochastic         0           0.2         0.2           Stochastic         0           1.14E+03         1.14E           1.35         13.5	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           -         40.2           7.93E+03         12.6           92.3         92.3
Baseflow Total Phosphorus Estimation Method Baseflow Total Phosphorus Serial Correlation Baseflow Total Nitrogen Mean (log mg/L) Baseflow Total Nitrogen Standard Deviation (log mg/L) Baseflow Total Nitrogen Estimation Method Baseflow Total Nitrogen Serial Correlation OUT - Mean Annual Flow (ML/yr) OUT - TSS Mean Annual Load (kg/yr) OUT - TP Mean Annual Load (kg/yr)	Slochastic 0 0.2 0.2 Stochastic 0 91.5 1.73E+04 28 201 2.01 2.38E+03	Stochastic C 0.2 Stochastic C 151 2.82E+02 47.1 3.44 3.94E+03	Stochastic 0.2 0.2 0.2 0.2 0.2 Stochastic 0.3 0.4 5.83E+00 9.33 66.1 66.1 791	Stochastic           0         0           2         0.2           Stochastic         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           1         671	Stochastic 0 -0.55 0.22 Stochastic 0 8.03 441 0.526 5.83 0 0	Stochastic 0 0.2 0.2 Stochastic 0 138 2.61E+04 4.1 318 319 3.59E+03	Stochastic 0 0.2 0.2 Stochastic 0 68 1.32E+04 20.8 155 1.77E+03	Stochastic 0.2 0.2 Stochastic 0 2.25E+03 3.83 26.9 315	Stochastic 0.2 0.2 Stochastic 2.31E+03 3.76 27.9 321	Stochastic         0           0         0.2           0.2         0.2           Stochastic         0           0         51.9           9.86E+03         16           118         1.35E+03	Stochastic 0.2 0.2 Stochastic 0 1.91E+04 31.4 230 2.68E+03	Stochastic 0.2 Stochastic 6.50E+02 10.2 76.6 874	Stochastic 0 0.2 0.2 Stochastic 0 10.5 2.03E+03 0 3.12 0 23.6 2.202 0 270	Stochastic 0.2 0.2 Stochastic 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic         0           0.2         0.2           Stochastic         0           1.14E+03         1.83           1.35         13.5	Stochastic           0           0.2           0.2           Stochastic           0           40.2           7.93E+03           2.12.6           92.3           1.04E+03
Baseflow Total Phosphorus Estimation Method Baseflow Total Phosphorus Serial Correlation Baseflow Total Nitrogen Mean (log mg/L) Baseflow Total Nitrogen Standard Deviation (log mg/L) Baseflow Total Nitrogen Estimation Method Baseflow Total Nitrogen Serial Correlation OUT - Mean Annual Flow (ML/yr) OUT - TS Mean Annual Load (kg/yr) OUT - TN Mean Annual Load (kg/yr)	Slochastic 0.2 0.2 Stochastic 0 1.73E+04 201 2.38E+03 189-431	Stochastic 0.2 Stochastic 2.82E+0/ 47.1 3.94E+00 - 313.026	Stochastic 0 0.2 0.2 Stochastic 0 5.83E+00 9.33 68.1 0 799 62.9135	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         671           53.3932         53.3932	Stochastic -0.69 -0.69 0.22 Stochastic 0.526 -0.526 -0.526 -0.526 -0.526 -0.526 -0.526 -0.526 -0.6901 -0.201 -0.6901 -0.6901 -0.6901 -0.6901 -0.6901 -0.6901 -0.59	Siochastic 0.2 0.2 Siochastic 0 2.61E+04 44.1 3.59E+03 285.612 285.612	Stochastic         0           0         0.2           0         0.2           Stochastic         0           68         1.32E+04           20.8         155           1.77E+03         140.905	Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 315 27.964	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           2.31E+03         3.76           2.7.9         3.21           28.8765         28.8765	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           0         51.9           9.86E+03         16           118         1.35E+03           1.35E+03         107.486	Stochastic 0 0.2 0.2 0.2 Stochastic 0 1.91E+04 31.4 230 2,68E+03 213.208	Stochastic 0.2 Stochastic 6.50E+00 10.2 76.6 874 66.7665	Stochastic         0           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.3.6         2.70           2.4.3241         24.3341	Stochastic         O.2           0.2         0.2           Stochastic         0.2           Stochastic         0.2           1.42         0.4           1.42         10.4           1.0686         10.686	Stochastic         0           0.2         0.2           Stochastic         0           1.14E+03         1.83           1.35         157           13.9617         13.9617	Stochastic         0           0.2         0.2           0 2         0           2         0.2           Stochastic         0           40.2         7.93E+03           12.6         92.3           1.04E+03         75.2229
Baseflow Total Phosphorus Estimation Method         Baseflow Total Phosphorus Serial Correlation         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Estimation Method         Baseflow Total Nitrogen Serial Correlation         OUT - Mean Annual Flow (ML/yr)         OUT - TSS Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - Gross Pollutant Mean Annual Load (kg/yr)	Slochastic 0 0.2 0.2 Stochastic 0 91.5 1.73E+04 28 201 2.01 2.38E+03	Stochastic C 0.2 Stochastic C 151 2.82E+02 47.1 3.44 3.94E+03	Stochastic 0 0.2 0.2 Stochastic 0 5.83E+00 9.33 68.1 0 799 62.9135	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         671           53.3932         53.3932	Stochastic 0 -0.55 0.22 Stochastic 0 8.03 441 0.526 5.83 0 0	Stochastic 0 0.2 0.2 Stochastic 0 138 2.61E+04 4.1 318 319 3.59E+03	Stochastic 0 0.2 0.2 Stochastic 0 68 1.32E+04 20.8 155 1.77E+03	Stochastic 0.2 0.2 Stochastic 0 2.25E+03 3.83 26.9 315	Stochastic 0.2 0.2 Stochastic 2.31E+03 3.76 27.9 321	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           0         51.9           9.86E+03         16           118         1.35E+03           1.35E+03         107.486	Stochastic 0 0.2 0.2 0.2 Stochastic 0 1.91E+04 31.4 230 2,68E+03 213.208	Stochastic 0.2 Stochastic 6.50E+02 10.2 76.6 874	Stochastic 0 0.2 0.2 Stochastic 0 10.5 2.03E+03 0 3.12 0 23.6 2.202 0 270	Stochastic         O.2           0.2         0.2           Stochastic         0.2           Stochastic         0.2           10.6866         1.42           10.4         10.4           10.5866         1.42	Stochastic         0           0.2         0.2           Stochastic         0           1.14E+03         1.83           1.3.5         157           13.9617         7.79676	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0          40.2         7.93E+03          12.6         92.3          1.04E+03         7.52229          34.7613         34.7613
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation         OUT - Mean Annual Flow (ML/yr)         OUT - TS Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TS Sellutant Mean Annual Load (kg/yr)         DUT - Gross Pollutant Mean Annual Load (kg/yr)         Deep Seepage Loss (ML/yr)	Stochastic 0.2 0.2 Stochastic 0 91.5 1.73E+04 201 2.38E+03 189.431 97.1418 0	Stochastic 0.2. Stochastic 2.82E+04 47.1 3.94E+02 - 313.022 160.524	Stochastic 0.2 0.2 Stochastic 0.3 0.4 0.63E+03 0.3 0.4 0.681 0.3 0.4 0.681 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           1         671           9         27.3805           0         0	Stochastic 0.22 Stochastic 0.22 Stochastic 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.52 0.441 0.52 0.52 0.23 0.22 0.55 0.02 0.55 0.02 0.55 0.02 0.52	Siochastic 0 0.2 0.2 Siochastic 0 138 2.61E+04 44.1 318 3.59E+03 285.612 146.464 0	Stochastic 0 0.2 0.2 Stochastic 0 68 1.32E+04 2.0.8 1.32E+04 1.32E+04 1.32E+04 1.355 1.77E+03 140.905 72.2577 0	Stochastic 0 0.2 Stochastic 2.255±03 3.83 26.9 315 27.964 15.6161 0	Stochastic 0.2 0.2 Stochastic 2.31E+03 3.76 27.9 3.21 28.8765 16.2721	Stochastic           0         0.2           0.2         0.2           Stochastic         0           0         0.3           51.9         0           10         9.86E+03           118         1.35E+03           107.486         55.199           0         0	Siochastic 0 0.2 0.2 0.2 Siochastic 0 103 1.91E+04 31.4 230 2.68E+03 213.208 109.355 0 0 0	Stochastic 0.2 Stochastic 6.50E+03 10.5 76.6 874 66.7669 32.8847 0	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           3.12         23.6           270         24.3341           13.7126         0	Stochastic 0.2 0.2 Stochastic 0 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic           0           0.2           0.2           Stochastic           0           6.09           1.14E+03           1.3.5           157           13.9617           7.79676           0	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.3           0.3           0.34.7613           0
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Standard Deviation Method         Baseflow Total Nitrogen Serial Correlation         OUT - Mean Annual Flow (ML/yr)         OUT - TP Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TO Se Pollutant Mean Annual Load (kg/yr)         DUT - To Se pollutant Mean Annual Load (kg/yr)         DUT - To Se pollutant Mean Annual Load (kg/yr)         DUT - Bose pollutant Mean Annual Load (kg/yr)         Bain In (ML/yr)         Bain In (ML/yr)         Baseflow Out (ML/yr)         Baseflow Out (ML/yr)	Slochastic 0 0.2 0.2 Stochastic 0 91.5 1.73E+04 201 2.38E+03 189.431 97.1418 0 7.74239	Stochastic 0.2 Stochastic 0.2 Stochastic 0.2 157 2.82E+04 47.1 3.94E+00 3.3.94E+00 3.3.94E+00 0.3 160.522 (0.2) 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic         0           0         0.2           0.2         0.2           Stochastic         0           30.4         5.83E+00           9.33         68.1           9         799           62.9138         32.2622           0         2.5714	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           1         671           9         53.3932           9         27.3805           0         0           4         2.18227	Stochastic -0.69 -0.69 0.22 Stochastic 0.526 -0.526 -0.526 -0.526 -0.526 -0.526 -0.526 -0.526 -0.6901 -0.201 -0.6901 -0.6901 -0.6901 -0.201 -0.590	Siochastic 0.2 0.2 Siochastic 0 138 2.61E+04 44.1 3.18 3.59E+03 285.612 146.464 0 0 11.6735	Stochastic 0 0 2 0 2 Stochastic 0 68 1.32E+04 20.8 1.55 1.77E+03 140.905 72.257 0 5.75903	Slochastic 0 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 315 27.964 15.6161 0 0 1.34867	Stochastic           0.2           0.2           0.2           0.2           0.2           12.5           2.31E+03           3.76           2.31E+03           3.76           2.31E+03           3.76           2.31E+03           3.76           2.8.8765           16.2721           0           1.41628	Stochastic         0           0         0.2           0.2         0.2           Stochastic         0           9.86E+03         16           118         1.35E+03           107.486         5.1199           0         0           4.39314         4.39314	Stochastic 0.2 0.2 0.2 Stochastic 0 1.91E+04 31.4 230 2.68E+03 213.208 109.335 0 8.71417 8.71417	Stochastic C 0.2 0.2 Stochastic C 33.6 6.50E+03 10.5 76.6 874 66.7669 33.884 C 2.51057 C	Stochastic 0 0.2 0.2 Stochastic 0 10.5 2.03E+03 0 3.12 0 23.6 2.36 0 270 2.4.3341 13.7126 0 0 1.1935	Stochastic         0.2           0.2         0.2           Stochastic         0.2           10.4         0.2           1.42         10.4           10.6865         5.96765           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.505765         0.0	Stochastic         0           0.2         0.2           Stochastic         0           1.14E+03         1.14E+03           1.5         157           13.9617         7.79676           0         0.673355	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           2.3         12.6           92.3         1.04E+03           7.5.2229         34.7613           0.2         0.2           0.34.7613         0
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation         OUT - Total Nitrogen Standard Deviation         OUT - TSS Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - To Se Pollutant Mean Annual Load (kg/yr)         DUT - Gross Pollutant Mean Annual Load (kg/yr)         Baseflow Out (ML/yr)         ET Loss (ML/yr)         Deep Seepage Loss (ML/yr)         Imp. Stormflow Out (ML/yr)	Stochastic 0 0.2 0.2 Stochastic 0 1.73E+04 28 201 2.38E+03 189.431 97.1418 0 7.74239 70.1544	Stochastic 0.2 Stochastic 151 2.82E+02 47.1 3.94E+02 313.022 160.524 (2.794 115 928	Stochastic 0 0.2 0.2 Stochastic 0 0.2 Stochastic 0 0.2 Stochastic 0 0.2 0.2 Stochastic 0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         671           9         53.3932           27.3805         0           0         0           4         2.16227           4         2.18277	Stochastic -0.69 -0.69 0.22 Stochastic 0.526 6.03 444 0.526 5.83 0.526 0.526 0.35.690 27.3493 0.527 0.27 0.27 0.22	Siochastic 0 0.2 Siochastic 0 2.61E+04 44.1 3.59E+03 2.85.612 146.464 0 11.6735 105.774	Stochastic           0           0.2           0.2           0.2           0.2           Stochastic           0           68           1.32E+04           20.8           1.55           1.77E+03           140.905           72.257           0           5.75903           52.1831	Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 315 27.964 15.6161 0 1.34667 8.49213	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           2.31E+03         3.76           2.31E+03         3.21           28.8765         16.2721           16.2721         0           1.41628         8.55536	Stochastic           0         0.2           0.2         0.2           Stochastic         0           1.35E+03         118           1.35E+03         107.486           55.1199         0           10.4.39314         39.8066	Stochastic 0.2 0.2 0.2 Stochastic 0 1.91E+04 31.4 2.68E+03 2.68E+03 2.68E+03 0 0.2 0 8.71417 78,9599	Stochastic 0.2 Stochastic 0.3 Stochastic 0.3 Stochastic 0.3 0.3 0.2 Stochastic 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.33E         2.03E+03           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         3.12           13.7126         270           13.7126         0           1.1935         7.20558	Stochastic         O.2           0.2         0.2           Stochastic         0.2           10.4         0.2           10.4         0.2           10.4         0.2           10.4         0.2           10.4         0.2           10.686         5.96785           0.515400         3.24536	Stochastic         0           0.2         0.2           Stochastic         0           1.14E+03         1.83           1.35         157           1.39617         7.79676           0         0.673355           4.23991         4.23991	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           102         0.2           7.93E+03         1.04E+03           75.2229         34.7613           0         2.4596           33.4259         33.4259
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         OUT - Mean Annual Low (ML/yr)         OUT - TS Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - Gross Pollutant Mean Annual Load (kg/yr)         Rain In (ML/yr)         ET Loss (ML/yr)         Deep Seepage Loss (ML/yr)         Baseflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Perv. Stormflow Out (ML/yr)	Slochastic 0 0.2 0.2 Stochastic 0 1.73E+04 2.38E+03 189.431 97.1418 0 7.74239 70.1544 13.5687	Stochastic C 0.2. Stochastic C 151 2.82E+04 47.1 3.94E+02 47.1 3.94E+02 150 2.82E+04 47.1 3.94E+02 150 2.12.794 115 92E 22.4215 22.4215	Stochastic           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.33.4           68.1           791           0.2.913           0.2.913           0.2.913           0.2.913           0.2.913           0.2.913           0.2.913           0.2.914           0.2.917           0.2.917           0.2.917           0.2.917           0.2.917	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           671         9           9         53.3932           2         0.2           0         0           4         2.18227           7         19.77385           3         3.82449	Stochastic -0.69 -0.59 Stochastic 0.22 Stochastic 0.526 6.83 0.526 0.526 0.526 0.527 0.5	Siochastic 0 0.2 0.2 Siochastic 0 2.61E+04 44.1 318 3.59E+03 285.612 146.464 0 11.6735 105.774 20.4561	Stochastic         0           0 2         0 2           0 2         0 2           Stochastic         0           1.32E+04         20.8           155         1.77E+03           140.905         72.257           0         5.75903           52.18311         10.0929	Stochastic 0 0.2 Stochastic 0 2.25E+03 3.83 26.9 315.6161 0 1.34867 8.49213 2.36357	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           2.31E+03         3.76           2.31E+03         3.76           2.8765         16.2721           0         14.2721           0         1.41628           8.55536         2.48207	Stochastic           0         0.2           0.2         0.2           Stochastic         0           9.86E+03         16           1.35E+03         107.466           55.1199         0           4.39314         39.8066           7.6991         7.6991	Stochastic 0 0.2 0.2 Stochastic 0 1.91E+04 31.4 230 2.68E+03 213.208 109.335 0 8.71417 78.9599 15.2718	Stochastic 0.2 Stochastic 6.50E+03 0.2 33.0 6.50E+03 0.0 76.0 874 66.7660 32.8841 0 2.51057 26.7047 4.33984 4.33984	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         3.12           13.7126         270           13.7126         0           13.7126         0           1.1935         2.0958           2.09163         2.09163	Stochastic         O           0.2         0.2           0.2         0.2           Stochastic         0           10.460         899           1.42         10.4           10.6866         5.96785           0.515406         3.24530           0.903266         0.903266	Stochastic           0           0.2           0.2           Stochastic           0           1.14E+03           1.35           157           13.9617           7.79676           0           0.673355           4.23991           1.18007	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2.3           1.04E+0.3           75.2229           34.7613           0           2.4596           33.4269           4.31051
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation         OUT - Mean Annual Flow (ML/yr)         OUT - TS Mean Annual Load (kg/yr)         OUT - TP Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TO Sepolutant Mean Annual Load (kg/yr)         OUT - Gross Pollutant Mean Annual Load (kg/yr)         Deep Seepage Loss (ML/yr)         Baseflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)	Slochastic 0.2 0.2 Stochastic 0 91.5 1.73E+04 201 2.38E+03 189.431 97.1418 0 7.74239 70.1544 13.5687 83.7231	Stochastic 0.2. 0.2. Stochastic 2.82E+00 47.1 3.94E+00 47.1 3.94E+00 13.022 160.524 0.22.4218 115.922 22.4218 138.35	Stochastic           0.2           0.2           0.2           0.2           Stochastic           0           30.4           5.83±+00           68.1           3           68.1           3           62.9133           3           3           2.5714           23.2997           4.50644           27.8061	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           1         671           9         27.3805           0         0           4         2.18227           7         19.7738           5         3.82449           2.35983         2.35983	Stochastic -0.55 -0.55 Stochastic C 8.03 441 0.525 5.83 C 35.6901 27.3499 -0 C 2.91744 -0 5.11286 5.11286	Siochastic 0 0.2 0.2 Siochastic 0 2.61E+04 44.1 318 3.59E+03 285.612 146.464 0 11.6735 105.774 20.45611 126.232	Stochastic 0 0.2 0.2 Stochastic 0 68 1.32E+04 2.0.8 1.32E+04 2.0.8 1.32E+04 0.55 1.77E+03 140.905 72.257 0 5.75903 52.1831 10.0929 62.2759	Stochastic 0 0.2 0.2 Stochastic 2.25E+03 3.83 26.9 315 27.964 15.6161 0 1.34867 8.49213 2.36357 10.8557	Stochastic 0.2 0.2 Stochastic 0.2 Stochastic 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic           0         0.2           0.2         0.2           Stochastic         0           9.86E+03         16           1.35E+03         107.486           5.19         0           4.39314         39.8066           7.6991         7.6991           47.5057         47.5057	Siochastic 0 0.2 0.2 Siochastic 0 1.91E+04 31.4 230 2.68E+03 109.335 0 8.71417 78.9599 15.2718 94.2317	Stochastic 0.2 Stochastic 6.50E+03 10.5 76.6 874 66.7665 32.8841 0 2.51055 26.7047 4.39984 31.1046	Stochastic 0 0.2 0.2 0.2 Stochastic 0 0.2 0 0.2 Stochastic 0 0.2 0 0.2	Stochastic         0.2           0.2         0.2           Stochastic         0.2           1.42         0.2           1.42         10.4           1.42         10.4           0.1515400         0.515400           0.515402         0.903266           0.903266         4.14863	Stochastic           0           0.2           0.2           Stochastic           0           6.09           1.14E+03           13.5           157           13.9617           7.79676           0           0.673355           4.23991           1.18007           5.41998	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           34.7613           0           2.4596           33.4299           4.31051           37.7404
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nirrogen Mean (log mg/L)         Baseflow Total Nirrogen Standard Deviation (log mg/L)         Baseflow Total Nirrogen Serial Correlation         OUT - The Mean Annual Load (kg/yr)         OUT - TP Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TO Se Pollutant Mean Annual Load (kg/yr)         OUT - To Se Se (ML/yr)         Baseflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Perv. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Stormflow (ML/yr)	Slochastic 0 0.2 0.2 Stochastic 0 91.5 1.73E+04 201 2.38E+03 189.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655	Stochastic C 0.2. Stochastic C 157 2.82E+04 47.1 3.94E+00 - 313.025 160.522 (12.794 115.928 22.4215 138.38 151.144	Stochastic 0 0.2 0.2 Stochastic 0 0.2 Stochastic 0 0.2 Stochastic 0 0.2 Stochastic 0 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         671           9         27.3805           0         0           4         2.18227           7         19.7738           5         3.82449           1         23.5983           5         25.7805	Stochastic C -0.69 -0.69 0.22 Stochastic C 8.03 441 0.526 5.83 C 35.6901 27.3493 C 2.91744 C 5.11286 8.0303 C 2.91744 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.0303 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 5.11286 8.030 C 5.11286 5.11286 8.030 C 5.11286 5.11286 8.0303 C 5.11286 8.030 C 5.11286 5.11286 8.0303 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.030 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 8.0302 C 5.11286 C 5.11	Siochastic 0 0.2 0.2 Siochastic 0 2.61E+04 44.1 3.59E+03 285.612 146.464 0 11.6735 105.774 20.4561 126.232 137.906	Stochastic           0           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 3           1.32E+04           20.8           1.55           1.77E+03           140.905           72.257           0           5.75903           52.1831           10.0929           62.2759           68.035	Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 3.15 27.964 15.6161 0 1.34867 8.49213 2.36337 10.8557 12.2044	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           0           12.5           2.31E403           3.76           27.9           321           28.8765           16.2721           0           1.41622           8.55536           2.48207           11.0374           12.4537	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           9.86E+03         16           1.35E+03         107.486           51.199         0           4.39314         39.8066           7.6991         47.5057           51.8989         51.8989	Stochastic 0 0.2 0.2 Stochastic 0 1.91E+04 31.4 230 2,68E+03 213.208 109.335 0 8.71417 78.9599 15.2718 94.2317 102.946	Stochastic C 0.2 0.2 Stochastic C 33.6 6.50E+03 10.5 76.6 874 66.7665 32.8844 C 2.51057 26.7047 4.33984 31.1044 33.6151	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         2.36           24.3341         13.7126           0         0           1.1935         2.09163           2.09163         9.30121           10.4947         10.4947	Stochaslic         0.2           0.2         0.2           Stochaslic         0.2           Stochaslic         0.2           10.4         0.2           10.4         0.2           10.4         0.2           10.4         0.2           10.5         0.6           10.6866         0.90326           0.515400         0.903266           4.14863         4.66400	Stochastic         0           0.2         0.2           Stochastic         0           1.02         0.2           Stochastic         0           1.14E+03         1.83           1.5         157           1.3.9617         7.79676           0         0.673355           4.23991         1.18007           5.41998         6.09334	Stochastic         0           0.2         0.2           0.2         0.2           0.2         0.2           Stochastic         0           10.2         0.2           7.93E+03         12.6           92.3         1.04E+03           75.2229         34.7613           0         2.4596           33.4299         4.31051           37.7404         40.2
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Scial Correlation         OUT - Mean Annual Load (kg/yr)         OUT - TS Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - Toss Pollutant Mean Annual Load (kg/yr)         Rain In (ML/yr)         ET Loss (ML/yr)         Baseflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Perv. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Outflow (ML/yr)         Total Outflow (ML/yr)         Change in Soil Storage (ML/yr)	Slochastic 0 0.2 0.2 Stochastic 0 1.73E+04 28E+03 189.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.823636	Stochastic C 0.2. Stochastic C 151 2.82E+04 47.1 3.94E+03 313.022 160.524 C 12.794 115.922 22.4215 138.83 151.144 1.36103	Stochastic           0         0.2           0.2         0.2           Stochastic         0           30.4         5.83E+00           9.33         68.1           9         32.2629           0         2.5714           2.2.5714         23.2997           4.50646         27.8061           30.37546         0.273546	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         671           9         53.3932           0         0           4         2.16227           7         1.9.73805           0         0           4         2.16227           7         1.9.73805           5         2.5.7805           0         0.023215	Stochastic -0.69 -0.69 0.22 Stochastic 0.526 5.83 0.526 5.83 0.526 0.526 0.35.690 27.3493 0.2 2.91744 0.5 1.288 5.11288 5.11288 5.11288 3.03037 0.310357 0.3105	Siochastic 0 0.2 0.2 Siochastic 0 2.61E+04 44.1 3.18 2.61E+04 44.1 3.59E+03 2.85.612 146.464 0 11.6735 1.05.774 20.4581 126.232 137.906 1.24182	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           Stochastic           0           68           1.32E+04           20.8           1.55           1.77E+03           140.905           72.257           0           5.75903           52.1831           10.0929           62.2759           68.035           0.612646	Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 315 27.964 15.6161 0 1.34667 8.49213 2.36357 10.8557 12.2044 0.143471	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           12.5           2.31E+03           3.76           2.31E+03           321           328.8765           16.2721           0           1.41628           8.55536           2.48207           11.0374           12.4537           0.150664	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           0           51.9           9.86E+03           16           1.35E+03           107.466           55.1199           0           39.8066           7.6991           47.5057           51.8989           0.467343	Stochastic 0.2 0.2 0.2 Stochastic 0 1.91E+04 2.68E+03 2.68E+03 2.68E+03 0 0.335 0 0.335 0 0.2 1.91E+04 0.2 0 0 0 0 0 0 0 0 0 0 0 0 0	Stochastic 0.2 Stochastic 0.2 Stochastic 0.2 Stochastic 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         2.03E+03           13.7126         270           2.4.3341         13.7126           0         0           1.1935         7.20958           2.09163         9.30121           10.4947         0.126964	Stochastic         0.2           0.2         0.2           Stochastic         0.2           Stochastic         0.2           10.460         890           1.42         10.4           10.6866         5.96785           0.515406         0.903266           4.14863         4.66400           0.0548291         0.0548291	Stochastic         0           0.2         0.2           Stochastic         0           1.14E+03         1.83           1.3.9617         1.57           1.3.9617         0.0673355           0.673355         4.23991           1.16007         5.41998           6.0934         0.0716316	Stochastic           0           0.2           0.2           0.2           0.2           0.2           Stochastic           0           40.2           7.93E+03           1.04E+03           75.2229           34.7613           0           2.45986           33.4299           4.31051           37.7404           40.2           0.261652
Baseflow Total Phosphorus Estimation Method         Baseflow Total Phosphorus Serial Correlation         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Serial Correlation         OUT - Mean Annual Flow (ML/yr)         OUT - TS Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - Gross Pollutant Mean Annual Load (kg/yr)         OUT - Gross Pollutant Mean Annual Load (kg/yr)         Deep Seepage Loss (ML/yr)         Baseflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Perv. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Outflow (ML/yr)         Total Soli Storage (ML/yr)         Total Sourage in Soli Storage (ML/yr)	Slochastic 0 0.2 0.2 Stochastic 0 91.5 1.73E+04 2.38E+03 189.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.823636 132.405	Stochastic 0.2. Stochastic 151 2.82E+04 47.1 3.94E+02 47.1 3.94E+02 160.524 160.524 12.794 115 928 22.4215 138.35 151.144 1.36103 2.18.216	Stochastic           0         0.2           0.2         0.2           0.2         0.2           Stochastic         0           0         0.2           Stochastic         0           0         0.2           Stochastic         0           9.33         68.1           0         791           1         62.9133           1         73           1         23.2997           1         4.50645           27.8061         30.3775           0.273546         4.38227	Stochastic           0         0           2         0.2           2         0.2           Stochestic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           1         671           9         53.3932           2         27.3805           0         0           4         2.18227           7         19.7385           3         3.82449           1         23.5983           5         25.7805           6         0.23215           7         37.1392	Stochastic -0.65 -0.65 0.22 Stochastic 0 -0.52 -0.22 Stochastic 0 -0.52 -0.525 -0.35 -0.525 -0.35 -0.525 -0.35 -0.525 -0.35 -0.525 -0.25	Siochastic 0 0.2 0.2 Siochastic 0 2.61E+04 318 2.61E+04 44.1 319 3.59E+03 285.612 146.464 0 11.6735 105.774 20.4561 126.232 137.906 1.24182 199.095	Stochastic           0           0.2           0.2           0.2           0.2           Stochastic           0           68           1.32E+04           20.8           155           1.77E+03           140.905           72.257           0           5.75903           52.18311           10.0929           62.2759           68.035           0.612646           96.9173	Stochastic         0           0.2         0.2           Stochastic         0           12.2         2.55±+03           2.55±+03         3.83           26.9         315           27.964         15.6161           0         1.34667           8.49213         2.36357           10.8557         12.2044           0.143471         23.0237	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           2.31E+03           3.76           2.31E+03           3.76           2.31E+03           3.76           2.31E+03           3.76           2.31E+03           3.76           2.8765           16.2721           0           14.028           8.55536           2.48207           11.0374           12.4537           0.150664           24.2175	Stochastic           0         0.2           0.2         0.2           Stochastic         0           9.86E+03         16           1.35E+03         107.466           55.1199         0           3.9.8066         7.6991           47.5057         51.8989           0.467343         74.8617	Stochastic 0 0.2 0.2 Stochastic 0 103 1.91E+04 31.4 230 2.68E+03 2.13.208 109.335 0 8.71417 78.9599 15.2718 94.2317 102.946 0.927015 149.343	Stochastic         C           0.2         0.2           Stochastic         0.2           Stochastic         0.2           0.10.1         0.2           Stochastic         0.2           0.10.2         0.2           0.10.2         0.6           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.105           2.6         0.2           0.2         0.105           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2           0.2         0.2	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           24.3341         13.7126           0         0           1.1935         7.20958           2.09163         9.30121           10.126964         20.4094	Stochastic         0.2           0.2         0.2           Stochastic         0.2           10.686         0.2           10.460         899           1.42         10.4           10.6866         5.96789           0.515406         3.24533           0.903266         4.14863           4.66403         0.0548291           8.79819         8.79819	Stochastic           0           0.2           0.2           0.2           Stochastic           0           1.14E+03           1.3.5           157           13.9617           7.79676           0           0.673355           4.23991           1.18007           5.41998           0.0716316           11.5348	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.34.7613           0           2.4596           33.4269           4.31051           37.7404           40.2           0.261652           41.9128
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Serial Correlation         OUT - Mean Annual Flow (ML/r)         OUT - TP Mean Annual Load (kg/r)         OUT - TN Mean Annual Load (kg/r)         OUT - Cross Pollutant Mean Annual Load (kg/r)         OUT - TN Mean Annual Load (kg/r)         DUT - TS Segage Loss (ML/r)         Baseflow Out (ML/r)         Perp Seepage Loss (ML/r)         Baseflow Out (ML/r)         Imp. Stormflow Out (ML/r)         Total Outflow (ML/r)         Total Outflow (ML/r)         Change in Soil Storage (ML/r)         Tostal Storage (ML/r)         Tostal Stormflow Out (ML/r)	Slochastic 0.2 0.2 Stochastic 0 91.5 1.73E+04 28 0 0 2.38E+03 189.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.623636 132.405 17196.6	Stochastic 0.2. Stochastic 2.82E+00 47.1 3.94E+00 - 313.022 160.524 0.2. 2.2.4215 138.33 151.144 1.36103 219.218 2.2021.3	Stochastic           0.2           0.2           0.2           0.2           Stochastic           0           30.4           5.83E+00           9.33           68.1           30.265714           32.26520           0           23.2997           4.50644           27.8061           30.3775           0.27846           23.2927           43.8227           5781.56	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           1         671           9         53.3932           9         27.3805           0         0           4         2.18227           7         19.7738           5         .25.7805           0         .23.5983           5         .25.7805           0         .23.215           7         .37.1392           5         .48866.3	Stochastic 	Siochastic 0 0.2 Siochastic 0 2.61E+04 0 2.61E+04 44.1 318 3.59E+03 285.612 146.444 0 11.6735 105.774 20.45611 126.232 137.906 1.24182 199.095 25694.3	Stochastic           0           0.2           0.2           0.2           0.2           Stochastic           0           1.32E+04           2.08           1.32E+04           1.32E+04           2.08           1.77E+03           140.905           72.2571           0           5.75903           52.1831           10.0929           62.2759           68.035           0.612646           99.9173           13090.2	Stochastic 0 0.2 0.2 Stochastic 2.25E+03 3.83 26.9 315 27.964 15.6161 0 1.34867 8.49213 2.36357 10.8557 12.2044 0.143471 23.0237 2231.92	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           2.31E+03           3.76           2.31E+03           3.76           2.31E+03           3.76           2.31E+03           3.76           16.2721           0           16.2721           0           11.0374           12.4533           0.150664           24.2175           2284.8           2284.2	Stochastic           0         0.2           0.2         0.2           Stochastic         0           9.86E+03         16           1.35E+03         16           1.35E+03         107.486           55.19         0           0         39.8066           7.6991         7.6991           47.5057         51.8989           0.467343         74.86174           9781.42         9781.42	Siochastic 0 0.2 0.2 Siochastic 0 1.91E+04 31.4 230 2.68E+03 213.208 109.335 0 8.71417 78.9599 15.2716 94.2317 102.946 0.927015 149.343 18934.9	Stochastic C 0.2 Stochastic C 33.6 6.50E+03 10.5 76.6 874 66.7669 32.8841 C 25.1053 26.7044 4.39984 31.1046 33.6151 0.257074 4.27594 6457.6	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         2.36           2.03E+03         7.126           2.03E+03         0           11.135         2.09163           9.30121         10.4947           0.1269964         20.4004           20.4004         2006.34	Stochaslic         O           0.2         0.2           0.2         0.2           Stochaslic         0           10.4         0.2           10.4         0.2           10.4         0.2           10.4         0.2           10.4         0.2           10.6865         0.90786           0.515400         3.24536           0.903266         4.14986           4.66403         0.0548291           8.79815         886.77815	Stochastic         0           0.2         0.2           Stochastic         0           1.02         0.2           Stochastic         0           1.14E+03         1.14E+03           1.13.9617         1.57           1.3.9617         0.0           0.673355         4.23991           1.18007         5.41998           0.0716316         0.0716316           11.5348         1124.52	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           10.4           0           1.04E+03           0           0           2.4596           33.4299           4.31051           37.7404           40.2           0.261652           41.9128           7886.69
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Serial Correlation         OUT - The Nean Annual Load (kg/yr)         OUT - TP Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         Duep Seepage Loss (ML/yr)         Baseflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Tost Storage in Soil Storage (ML/yr)         TSS Total Stormflow Out (ML/yr)         TSS Total Outflow (ML/yr)	Slochastic 0 0.2 0.2 Stochastic 0 1.73E+04 28 0 0 2.38E+03 189.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.823636 132.405 17196.6	Stochastic 0.2 Stochastic 0.2 Stochastic 0.2 Stochastic 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic 0 0.2 0.2 Stochastic 0 0.2 Stochastic 0 0.2 Stochastic 0 0.2 Stochastic 0 0.2 Stochastic 0 0.2 0 0.2 0.	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           4         25.8           3         4.92E+03           3         8.02           1         671           9         27.3805           0         0           4         218227           7         19.7738           5         3.82449           1         25.7805           5         0.23215           7         37.1392           5         4886.3           4         4923.44	Stochastic -0.69 -0.69 0.22 Stochastic 0.526 5.83 0.526 0.35.6901 27.3493 0 0 5.11286 8.0332 0 0 35.6901 0 0 0 0 0 0 0 0 0 0 0 0 0	Siochastic 0 0.2 0.2 Siochastic 0 138 2.61E+04 44.1 318 3.59E+03 285.612 146.464 0 11.6735 105.774 20.4581 126.232 137.906 1.24182 137.906 1.24182 137.906 1.24182 137.906 1.24182 137.906 1.24182 137.906 1.24182 137.906 1.24182 137.906 1.24182 137.906 1.24182 1.25694.3 26093.4 26094.4 260	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           Stochastic           0           68           1.32E+04           20.8           1.77E+03           140.905           72.257           0           5.76903           52.1831           10.0929           62.2759           68.035           0.612646           96.9173           13090.2           13189.1	Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 3.15 27.964 15.6161 0 1.34867 8.49213 2.36357 10.8557 12.2044 0.143471 23.0237 2231.92 2254.94	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           0           12.5           2.31E403           3.76           2.31E403           3.21           28.8765           16.2721           0           14.022           8.55536           2.48207           11.0374           12.4537           0.150664           24.2175           2284.8           2309.01	Stochastic           0         0.2           0.2         0.2           Stochastic         0           1         9.86E403           1         16           1.35E403         107.486           55.1199         0           39.8066         7.6991           39.8066         7.6991           4.39314         39.8066           7.6991         4.39314           9.80629         9.8066           7.8093         0.467343           74.8617         9781.42           9856.29         9856.29	Stochastic 0 0.2 0.2 0.2 Stochastic 0 1.91E+04 31.4 2.68E+03 2.68E+03 2.68E+03 0 2.68E+03 109.335 0 8.71417 78.9599 15.2718 94.2317 102.946 0.927015 149.343 18934.9 19084.2 19084.2	Stochastic         C           0.2         0.2           Stochastic         C           0.33.6         6.50E+03           10.2         10.2           76.6         66.7665           32.8844         C           2.51057         26.7047           4.33984         31.1046           33.6151         0.267074           42.7594         6457.6           6500.36         6500.36	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.3.6         270           24.3341         13.7126           0         1.1935           2.09163         9.30121           10.4947         0.126964           20.06.34         2026.74	Stochaslic         0.2           0.2         0.2           Stochaslic         0.2           Stochaslic         0.2           10.466         896           1.42         10.4           10.4         10.4           10.5         0.5           0.515400         3.24536           0.903266         4.14863           4.66400         0.0548291           8.79816         8867.77           8855.74         895.574	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           1.14E+03         1.35           1.57         13.9617           7.79676         0           0.673355         4.23991           1.18007         5.41998           0.0716316         11.5348           1124.52         1136.05	Stochastic           0           0.2           0           0.2           0           0           102           5tochastic           0           40.2           7.93E+03           12.6           92.3           1.04E+03           75.2229           34.7613           0           2.4556           33.4299           4.31051           37.7404           40.2           0.261652           41.9128           7988.69           7928.6
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         DUT - Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         DUT - To So Pollutant Mean Annual Load (kg/yr)         Rain In (ML/yr)         ET Loss (ML/yr)         Deep Seepage Loss (ML/yr)         Imp. Stormflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Outlow (ML/yr)         TSS Total Stormflow Out (ML/yr) <td>Slochastic 0 0.2 0.2 Stochastic 0 1.73E-04 28 201 2.38E+03 189.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.823636 132.405 17196.6 17299 1.06926</td> <td>Stochastic 0.2. Stochastic 0.2. Stochastic 0.1 Stochastic 0.1 0.1 0.2. 0.2</td> <td>Stochastic           0         0.2           0.2         0.2           Stochastic         0           30.4         5.83E+00           9.33         68.1           9         32.2625           0         2.5714           32.2625         0           0         2.5714           30.3756         0.273546           27.8061         30.3776           0.273546         5781.56           5825.33         5825.33           0.355471         0.355471</td> <td>Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           4         25.8           3         4.92E+03           3         8.02           1         671           9         53.3932           2         0.2           1         671           9         53.3932           2         27.3805           0         0           4         2.16227           7         1.9.738           5         3.82449           1         25.7805           5         0.23215           7         37.1392           3         4923.44           0.301249         0.30124</td> <td>Stochastic -0.69 -0.69 -0.69 -0.69 -0.69 -0.69 -0.69 -0.22 Stochastic 0.22 Stochastic 0.526 -0.526 -0.526 -0.526 -0.22</td> <td>Siochastic 0 0.2 0.2 Siochastic 0 2.61E+04 44.1 318 3.59E+03 285.612 146.464 0 11.6735 105.774 20.4581 126.232 137.906 1.24182 199.095 25694.3 26093.4 1.60693.4</td> <td>Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           Stochastic           0           68           1.32E+04           20.8           1.55           1.77E+03           140.905           72.257           0           5.75903           52.1831           10.0929           62.2759           68.035           0.612646           98.9173           13090.2           13169.1           0.798634</td> <td>Stochastic 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           12.5           2.31E403           3.76           2.31E403           321           38.8765           16.2721           0           14.628           8.55530           2.48207           11.0374           12.4537           0.150664           24.2175           2284.8           2309.01           0.19665</td> <td>Stochastic           0         0.2           0.2         0.2           0.2         0.2           Stochastic         0           1         51.9           9.86E+03         16           1.35E+03         107.466           55.1199         0           107.466         55.1199           0         4.39314           3.9.8066         7.6991           47.5057         51.8989           0.467343         74.8617           9781.42         9856.29           98562.99         0.609684</td> <td>Stochastic 0 0.2 0.2 Stochastic 0 1.91E+04 31.4 2.68E+03 2.68E+03 2.68E+03 2.68E+03 0 0.2 1.91E+04 1.09.355 0 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2</td> <td>Stochastic 0.2 0.2 Stochastic 0.2 Stochastic 0.3 0.50E+03 10.5 0.50E+03 10.5 0.50E+03 10.5 0.50E+03 10.5 0.251057 225.7047 4.39964 31.1044 33.615 0.257074 4.2.7594 6457.6 0.5505.3 0.345564 0.345564 0.345564</td> <td>Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         2.03E+03           2.03E+03         2.03E+03           2.03E+03         2.03E+03           2.03E+03         0.00           1.1935         7.20958           2.09163         9.30121           10.4947         0.126964           20.4004         2006.34           20267.44         0.164852</td> <td>Stochastic         0.2           0.2         0.2           0.2         0.2           Stochastic         0.2           10.40         0.2           10.40         0.2           10.40         890           1.42         10.40           10.6866         5.96765           0.515406         0.903266           4.14863         0.903266           4.16403         0.0548291           8.79815         886.776           895.574         0.0709732</td> <td>Stochastic           0           0.2           0.2           Stochastic           0           1.14E+03           1.35           1.57           1.3.9617           7.79676           0           0.673355           4.23991           1.16007           5.41998           6.09334           0.0716316           11.5348           1125.46.05           0.0930038</td> <td>Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           Stochastic           0           40.2           7.93E+03           1.04E+03           75.2229           34.7613           0           2.4596           33.4299           4.31051           37.7404           40.2           0.261652           41.9128           7928.6           0.338499</td>	Slochastic 0 0.2 0.2 Stochastic 0 1.73E-04 28 201 2.38E+03 189.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.823636 132.405 17196.6 17299 1.06926	Stochastic 0.2. Stochastic 0.2. Stochastic 0.1 Stochastic 0.1 0.1 0.2. 0.2	Stochastic           0         0.2           0.2         0.2           Stochastic         0           30.4         5.83E+00           9.33         68.1           9         32.2625           0         2.5714           32.2625         0           0         2.5714           30.3756         0.273546           27.8061         30.3776           0.273546         5781.56           5825.33         5825.33           0.355471         0.355471	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           4         25.8           3         4.92E+03           3         8.02           1         671           9         53.3932           2         0.2           1         671           9         53.3932           2         27.3805           0         0           4         2.16227           7         1.9.738           5         3.82449           1         25.7805           5         0.23215           7         37.1392           3         4923.44           0.301249         0.30124	Stochastic -0.69 -0.69 -0.69 -0.69 -0.69 -0.69 -0.69 -0.22 Stochastic 0.22 Stochastic 0.526 -0.526 -0.526 -0.526 -0.22	Siochastic 0 0.2 0.2 Siochastic 0 2.61E+04 44.1 318 3.59E+03 285.612 146.464 0 11.6735 105.774 20.4581 126.232 137.906 1.24182 199.095 25694.3 26093.4 1.60693.4	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           Stochastic           0           68           1.32E+04           20.8           1.55           1.77E+03           140.905           72.257           0           5.75903           52.1831           10.0929           62.2759           68.035           0.612646           98.9173           13090.2           13169.1           0.798634	Stochastic 0 0 0 0 0 0 0 0 0 0 0 0 0	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           12.5           2.31E403           3.76           2.31E403           321           38.8765           16.2721           0           14.628           8.55530           2.48207           11.0374           12.4537           0.150664           24.2175           2284.8           2309.01           0.19665	Stochastic           0         0.2           0.2         0.2           0.2         0.2           Stochastic         0           1         51.9           9.86E+03         16           1.35E+03         107.466           55.1199         0           107.466         55.1199           0         4.39314           3.9.8066         7.6991           47.5057         51.8989           0.467343         74.8617           9781.42         9856.29           98562.99         0.609684	Stochastic 0 0.2 0.2 Stochastic 0 1.91E+04 31.4 2.68E+03 2.68E+03 2.68E+03 2.68E+03 0 0.2 1.91E+04 1.09.355 0 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 1.91E+04 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	Stochastic 0.2 0.2 Stochastic 0.2 Stochastic 0.3 0.50E+03 10.5 0.50E+03 10.5 0.50E+03 10.5 0.50E+03 10.5 0.251057 225.7047 4.39964 31.1044 33.615 0.257074 4.2.7594 6457.6 0.5505.3 0.345564 0.345564 0.345564	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         2.03E+03           2.03E+03         2.03E+03           2.03E+03         2.03E+03           2.03E+03         0.00           1.1935         7.20958           2.09163         9.30121           10.4947         0.126964           20.4004         2006.34           20267.44         0.164852	Stochastic         0.2           0.2         0.2           0.2         0.2           Stochastic         0.2           10.40         0.2           10.40         0.2           10.40         890           1.42         10.40           10.6866         5.96765           0.515406         0.903266           4.14863         0.903266           4.16403         0.0548291           8.79815         886.776           895.574         0.0709732	Stochastic           0           0.2           0.2           Stochastic           0           1.14E+03           1.35           1.57           1.3.9617           7.79676           0           0.673355           4.23991           1.16007           5.41998           6.09334           0.0716316           11.5348           1125.46.05           0.0930038	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           Stochastic           0           40.2           7.93E+03           1.04E+03           75.2229           34.7613           0           2.4596           33.4299           4.31051           37.7404           40.2           0.261652           41.9128           7928.6           0.338499
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         Baseflow Total Nitrogen Serial Correlation         OUT - Mean Annual Load (kg/yr)         OUT - TS Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - Gross Pollutant Mean Annual Load (kg/yr)         Rain In (ML/yr)         ET Loss (ML/yr)         Deep Seepage Loss (ML/yr)         Baseflow Out (ML/yr)         Inp. Stormflow Out (ML/yr)         Perv. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TP Baseflow Out (ML/yr)         TP Baseflow Out (ML/yr)         TP Total Stormflow Out (ML/yr)         TP Total Stormflow Out (ML/yr)	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           91.5         1.73E+04           201         2.38E+03           189.431         97.1418           0         7.74239           70.1544         13.5687           83.7231         91.4655           0.823636         132.405           17196.6         17329           1.06926         26.8884	Stochastic C 0.2. Stochastic C 151 2.82E+04 47.1 3.94E+02 47.1 3.94E+02 160.524 (160.524 (12.794 115.928 22.24215 138.33 151.144 1.36103 22.182.116 28021.3 28021.3 28021.3 28021.3 28023.3 1.76341 45.3177 45.3177 (1.76341) (1	Stochastic           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.334           68.1           791           30.26291           0.25714           23.2997           4.50645           27.8061           30.3775           0.273546           43.8227           5781.56           5825.38           0.355471           8.97724	Stochastic           0         0           2         0.2           2         0.2           Stochestic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           6711         9           9         53.3932           0         0           4         2.18227           7         19.7385           3         3.82449           1         23.5983           5         25.7805           3         0.23215           3         7.1392           3         4986.3           3         4923.44           1         0.301249           4         7.71469	Stochastic -0.65 -0.65 0.22 Stochastic 0.525 5.03 0.525 5.03 0.525 0.35 0.0 27.3493 0.0 2.91744 0.521 0.525 0.35 0.0 2.91744 0.525 0.30335 0.35 0.35 0.3035 0.31035 11.6106 429.466 441.075 0.0583727 0.0583727 0.4675555 0.467555 0.467555 0.4675555 0.467555 0.467	Siochastic 0 0.2 0.2 Siochastic 0 2.61E+04 318 2.61E+04 44.1 319 3.59E+03 285.612 146.464 0 11.6735 105.774 20.4561 126.232 137.906 1.24182 199.095 25694.3 26093.4 1.60099 42.5363	Stochastic           0           0.2           0.2           0.2           0.2           0.2           Stochastic           0           68           1.32E+04           20.8           155           1.77E+03           140.905           72.257           0           5.75903           52.18311           10.0929           62.2759           68.035           0.612646           96.9173           13090.2           13189.1           0.798634           19.9977	Stochastic           0           0.2           0.2           Stochastic           0           12.2           2.55±03           3.83           26.9           315.6161           0           1.34867           2.6555           27.964           15.6161           0           1.34867           2.36357           10.8557           12.2044           0.143471           23.0237           2254.94           0.18674           3.64215	Stochastic           0.2           0.2           0.2           0.2           0.2           12.5           2.31E403           3.76           2.31E403           3.76           2.31E403           0.141628           8.55536           2.48207           11.0374           12.4537           0.150664           24.2175           2284.8           2309.01           0.19565           3.56493	Stochastic           0         0.2           0.2         0.2           Stochastic         0           1         9.86E+03           1         16           1.35E+03         16           1.35E+03         107.486           55.1199         0           4.39314         39.8066           7.6991         4.39314           39.8066         7.6991           47.5057         51.8899           0.487343         74.8617           9781.42         9856.29           0.609684         15.3605	Stochastic 0 0.2 0.2 0.2 Stochastic 0 1.91E+04 31.4 230 2.68E+03 2.13.208 109.335 0 8.71417 78.9599 15.2718 94.2317 102.946 0.927015 149.343 18934.9 19084.2 1.2055 30.1517 30.1	Stochastic         C           0.2         0.2           Stochastic         0.2           Stochastic         0.2           0.10.1         0.2           Stochastic         0.2           0.10.2         10.2           766.6         32.8847           0.2.51055         26.7047           0.2.51055         26.7047           0.3.61551         0.267074           42.7594         6457.6           0.345564         0.345564           10.1934         10.4934	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         0.1           1.1935         7.20958           2.09163         9.30121           10.4947         0.126964           20.006.34         2006.34           2006.34         2026.74           0.164852         2.95359	Stochastic         O           0.2         0.2           0.2         0.2           Stochastic         0           10.460         899           144         10.4           10.6866         5.96783           0.515406         3.24533           0.903266         4.14863           4.66403         0.0548291           8.79815         8.79815           885.574         0.0709733           1.34934         1.34934	Stochastic           0           0.2           0.2           0.2           Stochastic           0           1.14E+03           1.35           157           13.9617           7.79676           0           0.673355           4.23991           1.18007           5.41998           0.0716316           11.5348           1124.52           1136.05           0.0930038           1.73848	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0           10.42           92.3           1.04E+03           75.2229           34.7613           0           2.4596           33.4299           4.31051           37.7404           40.2           0.281652           41.9128           7928.6           0.338499           12.3064
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nirogen Mean (log mg/L)         Baseflow Total Nirogen Standard Deviation (log mg/L)         Baseflow Total Nirogen Standard Deviation (log mg/L)         Baseflow Total Nirogen Estimation Method         OUT - Mean Annual Flow (ML/yr)         OUT - TP Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TO Se Pollutant Mean Annual Load (kg/yr)         OUT - To Ses Pollutant Mean Annual Load (kg/yr)         Deep Seepage Loss (ML/yr)         Baseflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Outflow (ML/yr)         Total Stormflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TP Total Stormflow Out (ML/yr)         TP Total Stormflow Out (ML/yr)         TP Total Stormflow Out (ML/yr)	Slochastic 0 0.2 0.2 Stochastic 0 91.5 1.73E+04 28 0 0 1.73E+04 28 0 0 1.73E+04 28 0 0 1.73E+04 1.73E+04 1.73E+04 0 0 1.73E+04 1.73E+04 0 0 1.73E+04 1.73E+04 1.73E+04 0 0 0 1.73E+04 1.73E+04 1.73E+04 0 0 0 0 0 0 0 0 0 0 0 0 0	Stochastic C 0.2 Stochastic C 157 2.82E+04 47.1 3.94E+00 3.94E+00 3.94E+00 160.522 (C 12.794 115.928 22.4211 138.33 151.144 1.36100 218.218 28239.5 1.76341 45.3177 47.0811	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           0           30.4           5.83E+00           9.33           68.1           30.2625           0.2.5714           23.2997           4.50645           27.8061           30.3775           0.273546           5781.56           5825.32           0.355471           8.97724           9.3327	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           0         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           1         671           9         53.3932           9         27.3805           0         0           4         2.18227           7         19.7738           5         3.82449           1         23.5983           5         0.23215           5         0.23215           3         4923.44           1         0.301249           4         7.71466           8         0.0591	Stochastic C C C C Stochastic Stochastic	Siochastic 0 0.2 0.2 Siochastic 0 138 2.61E+04 44.1 3.59E+03 285.612 146.464 0 11.6735 105.774 20.4561 126.322 137.906 1.24182 139.095 25694.3 26093.4 1.60698 44.1433 44.1433 44.1433	Stochastic           0           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 2           0 3           1.32E+04           20.8           1.77E+03           140.905           72.257           0           5.75903           52.1831           10.0929           62.2759           68.035           0.612646           98.9173           13090.2           13189.1           0.79634           19.9977           20.7963	Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 3.15 27.964 15.6161 0 1.34867 8.49213 2.36337 10.8557 12.2044 0.143971 23.0237 22254.94 0.18674 3.8259 3.8269	Stochastic           0.2           0.2           0.2           0.2           12.5           2.31E403           3.76           2.31E403           3.76           2.31E403           3.76           0.14462           2.48207           11.0374           12.4537           0.150664           2204.8           2309.01           0.159653           3.56493           3.76058	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           0           9.86E+03           16           1.35E+03           107.486           55.1199           0           0           39.8066           7.6091           4.39344           9.8066           7.6093           0.467343           74.8617           9781.42           9856.29           0.609834           15.3605           15.9705	Stochastic           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           103           1.91E+04           31.4           230           2.68E+03           213.208           109.335           0           8.71417           78.9599           15.2718           94.2317           102.946           0.927015           149.343           18934.0           19084.2           1.2055           30.1517           31.3572	Stochastic C 0.2 Stochastic C 33.6 6.50E+03 10.5 76.6 874 66.7665 32.8841 C 2.51057 26.7047 4.33946 31.1046 33.6151 0.267074 42.7594 6457.6 5500.36 0.345564 10.1934 10.533	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         2.03E+03           13.7126         270           24.3341         13.7126           0         1.1935           2.09163         9.30121           10.4947         0.126964           2006.34         2026.74           0.164852         2.95359           3.11844         3.1184	Stochastic           0.2           0.2           0.2           0.2           Stochastic           0           4.66           896           1.42           10.8865           5.96765           0.0515400           0.0515400           0.03266           4.14865           4.66402           0.0548291           8.79815           886.777           895.574           0.0709735           1.34934           1.42031	Stochastic         0           0.2         0.2           0.2         0.2           Stochastic         0           1.02         0.2           Stochastic         0           1.14E+03         1.35           1.157         13.9617           7.79676         0           0.673355         4.23991           1.18007         5.41998           0.0716316         11.5348           11124.52         1136.05           0.093038         1.73848           1.73848         1.83144	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           12.6           92.3           1.04E+03           75.2229           34.7613           0           2.4596           33.4299           4.31051           37.7404           40.2           0.281652           41.9128           7928.6           0.338499           12.3064           12.3064
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         OUT - TS Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TO Ross Pollutant Mean Annual Load (kg/yr)         OUT - To Ses Pollutant Mean Annual Load (kg/yr)         Baseflow Out (ML/yr)         ET Loss (ML/yr)         Deep Seepage Loss (ML/yr)         Imp. Stormflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Total Outflow (ML/yr)         Total Outflow (ML/yr)         TSS Total Stormflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TP Total Stormflow Out (ML/yr)         TP Total Outflow (ML/yr)         TP Total Outflow (ML/yr) <tr< td=""><td>Slochastic 0 0.2 0.2 Stochastic 0 1.73E+04 28 0 1.73E+04 1.89.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.823636 132.405 17196.6 17299 1.06926 26.8884 27.9577 13.6321 13.6321</td><td>Stochastic C 0.2. Stochastic C 151 2.82E+02 47.1 3.94E+02 160,524 C 160,524 C 12.794 115 925 22.4215 138,33 151,144 1.36103 218,216 28021.3 282239.5 1.76341 45,3177 47,0811 22.4761</td><td>Stochastic           0         0.2           0.2         0.2           Stochastic         0           30.4         5.83E+00           9         32.625           0         32.2625           0         23.2997           0.2,25714         23.2997           0.4,50645         27.8061           0.30,377546         5781.66           5825.32         0.355471           8.97724         9.33271           9.33271         4.53843</td><td>Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           4         25.8           3         4.92E+03           3         8.02           1         671           9         53.3932           2         0.2           4         21.8227           7         19.7738           5         3.82449           1         25.7805           5         0.23215           5         3.486.3           4         9.301249           4         7.71466           3         4.923.591           3         3.843           3         3.843           3         3.843           3         3.843           3         3.843           3         3.843           4         3.1466.3           3         3.843</td><td>Stochastic -0.69 -0.69 -0.62 Stochastic 0.22 Stochastic 0.526 5.83 0.526 0.35.6901 27.3493 0.0 29.1744 0.511286 8.03032 0.310357 11.6106 429.468 441.079 0.0583727 0.467555 0.525927 0.850422 0.85042</td><td>Siochastic 0 0.2 0.2 Siochastic 0 138 2.61E+04 44.1 3.59E+03 2.85.612 146.464 0 11.6735 105.774 20.4581 126.232 137.906 1.24182 199.095 25694.3 26093.4 1.60698 42.5363 44.1432 20.5855</td><td>Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.132E+04           20.8           1.32E+04           20.8           1.32E+04           20.8           1.32E+04           20.8           1.32E+04           20.8           1.32E+04           0.575903           52.1831           10.0929           62.2759           68.035           0.612646           96.9173           13090.2           13189.1           0.798634           19.9977           20.7963           10.1415</td><td>Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 3.83 26.9 3.83 27.964 15.6161 0 1.34867 8.49213 2.36357 10.8557 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 2.30327 12.2044 0.143471 2.30327 12.2044 0.143471 2.30327 2.2554.94 0.186744 3.8269 2.37542</td><td>Stochastic           0.2           0.2           0.2           0.2           Stochastic           0           12.5           2.31E403           3.76           2.31E403           321           28.8765           16.2721           0           14.41628           8.55536           2.48207           11.0374           12.4537           0.150664           24.2175           2284.8           2309.01           0.19565           3.56493           3.76058           2.49066</td><td>Stochastic           0         0.2           0.2         0.2           0.2         0.2           Stochastic         0           1         9.86E 403           1         16           1.35E 403         107.486           55.1199         0           39.8066         7.6991           4.39314         39.8066           7.6991         4.75057           51.8989         0.467343           74.8617         9781.42           9856.295         0.609684           15.9702         7.74682</td><td>Stochastic 0 0.2 0.2 0.2 Stochastic 0 1.91E+04 0 2.68E+03 2.68E+03 0 0.9355 0 0.8.71417 78.9599 15.2718 94.2317 102.946 0.927015 149.343 18934.9 19084.2 1.2055 30.1517 31.3572 15.3617</td><td>Stochastic C 0.2 Stochastic C Stochastic C C Stochastic C C Stochastic C C Stochastic C C Stochastic C C Stochastic C C Stochastic C C C C C C C C C C C C C</td><td>Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         3.12           13.7126         0           2.09163         9.30121           10.4947         0.126964           2006.34         2026.74           0.164852         2.95359           3.11844         2.10557</td><td>Stochastic         O           0.2         0.2           0.2         0.2           Stochastic         0           10.4         0.2           10.4         0.2           10.2         0.2           10.4         0.2           10.4         0.2           10.4         0.2           10.2         1.42           10.8866         5.96785           0.515400         3.24536           0.903266         4.14863           4.66400         0.0548291           8.79816         895.5774           0.0709735         1.34934           1.42031         1.42031           0.907385         0.907385</td><td>Stochastic           0           0.2           0.2           0.2           Stochastic           0           1.14E+03           1.13           1.13           1.13           1.177           7.79676           0           0.073355           4.23991           1.18007           5.41998           0.0716316           115.548           1124.52           1136.05           0.0930038           1.73848           1.18605</td><td>Stochastic           0           0.2           0 2           0 2           0 2           Stochastic           0           40 2           7.93E+03           12.6           92.3           1.04E+03           75.2229           34.7613           0           2.4596           33.4299           4.31051           37.7404           40.2           0.261652           41.9128           7886.69           7928.6           0.338499           12.3064           12.6449           4.33107</td></tr<>	Slochastic 0 0.2 0.2 Stochastic 0 1.73E+04 28 0 1.73E+04 1.89.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.823636 132.405 17196.6 17299 1.06926 26.8884 27.9577 13.6321 13.6321	Stochastic C 0.2. Stochastic C 151 2.82E+02 47.1 3.94E+02 160,524 C 160,524 C 12.794 115 925 22.4215 138,33 151,144 1.36103 218,216 28021.3 282239.5 1.76341 45,3177 47,0811 22.4761	Stochastic           0         0.2           0.2         0.2           Stochastic         0           30.4         5.83E+00           9         32.625           0         32.2625           0         23.2997           0.2,25714         23.2997           0.4,50645         27.8061           0.30,377546         5781.66           5825.32         0.355471           8.97724         9.33271           9.33271         4.53843	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           4         25.8           3         4.92E+03           3         8.02           1         671           9         53.3932           2         0.2           4         21.8227           7         19.7738           5         3.82449           1         25.7805           5         0.23215           5         3.486.3           4         9.301249           4         7.71466           3         4.923.591           3         3.843           3         3.843           3         3.843           3         3.843           3         3.843           3         3.843           4         3.1466.3           3         3.843	Stochastic -0.69 -0.69 -0.62 Stochastic 0.22 Stochastic 0.526 5.83 0.526 0.35.6901 27.3493 0.0 29.1744 0.511286 8.03032 0.310357 11.6106 429.468 441.079 0.0583727 0.467555 0.525927 0.850422 0.85042	Siochastic 0 0.2 0.2 Siochastic 0 138 2.61E+04 44.1 3.59E+03 2.85.612 146.464 0 11.6735 105.774 20.4581 126.232 137.906 1.24182 199.095 25694.3 26093.4 1.60698 42.5363 44.1432 20.5855	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.132E+04           20.8           1.32E+04           20.8           1.32E+04           20.8           1.32E+04           20.8           1.32E+04           20.8           1.32E+04           0.575903           52.1831           10.0929           62.2759           68.035           0.612646           96.9173           13090.2           13189.1           0.798634           19.9977           20.7963           10.1415	Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 3.83 26.9 3.83 27.964 15.6161 0 1.34867 8.49213 2.36357 10.8557 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 2.30327 12.2044 0.143471 2.30327 12.2044 0.143471 2.30327 2.2554.94 0.186744 3.8269 2.37542	Stochastic           0.2           0.2           0.2           0.2           Stochastic           0           12.5           2.31E403           3.76           2.31E403           321           28.8765           16.2721           0           14.41628           8.55536           2.48207           11.0374           12.4537           0.150664           24.2175           2284.8           2309.01           0.19565           3.56493           3.76058           2.49066	Stochastic           0         0.2           0.2         0.2           0.2         0.2           Stochastic         0           1         9.86E 403           1         16           1.35E 403         107.486           55.1199         0           39.8066         7.6991           4.39314         39.8066           7.6991         4.75057           51.8989         0.467343           74.8617         9781.42           9856.295         0.609684           15.9702         7.74682	Stochastic 0 0.2 0.2 0.2 Stochastic 0 1.91E+04 0 2.68E+03 2.68E+03 0 0.9355 0 0.8.71417 78.9599 15.2718 94.2317 102.946 0.927015 149.343 18934.9 19084.2 1.2055 30.1517 31.3572 15.3617	Stochastic C 0.2 Stochastic C Stochastic C C Stochastic C C Stochastic C C Stochastic C C Stochastic C C Stochastic C C Stochastic C C C C C C C C C C C C C	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         3.12           13.7126         0           2.09163         9.30121           10.4947         0.126964           2006.34         2026.74           0.164852         2.95359           3.11844         2.10557	Stochastic         O           0.2         0.2           0.2         0.2           Stochastic         0           10.4         0.2           10.4         0.2           10.2         0.2           10.4         0.2           10.4         0.2           10.4         0.2           10.2         1.42           10.8866         5.96785           0.515400         3.24536           0.903266         4.14863           4.66400         0.0548291           8.79816         895.5774           0.0709735         1.34934           1.42031         1.42031           0.907385         0.907385	Stochastic           0           0.2           0.2           0.2           Stochastic           0           1.14E+03           1.13           1.13           1.13           1.177           7.79676           0           0.073355           4.23991           1.18007           5.41998           0.0716316           115.548           1124.52           1136.05           0.0930038           1.73848           1.18605	Stochastic           0           0.2           0 2           0 2           0 2           Stochastic           0           40 2           7.93E+03           12.6           92.3           1.04E+03           75.2229           34.7613           0           2.4596           33.4299           4.31051           37.7404           40.2           0.261652           41.9128           7886.69           7928.6           0.338499           12.3064           12.6449           4.33107
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         OUT - Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - Gross Pollutant Mean Annual Load (kg/yr)         Rain In (ML/yr)         ET Loss (ML/yr)         Deep Seepage Loss (ML/yr)         Imp. Stormflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Perv. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TP Total Stormflow Out (ML/yr)	Slochastic 0 0.2 0.2 Stochastic 0 1.73E+04 28 201 2.38E+03 189.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.623636 132.405 17196.6 132.405 17196.6 132.405 17196.6 132.9577 13.6321 187.54 187.55 187.	Stochastic 0.2. 0.2. Stochastic 0.1. Stochastic 0.1. Stochastic 0.1. 0.2.	Stochastic           0         0.2           0.2         0.2           Stochastic         0           30.4         5.83E+00           9.33         68.1           9         32.2625           0         2.5714           32.2625         0           0         2.5714           3.2.902         4.50645           27.8061         30.3775           0.273544         30.3775           5781.56         5825.33           0.355471         8.97724           9.33271         4.53242           4.535442         63.5176	Stochastic           0         0           2         0.2           2         0.2           Stochastic         0           4         25.8           3         4.92E+03           3         8.02           1         671           9         53.932           2         0.2           1         671           9         53.9332           2         27.3805           0         0           4         2.18227           7         19.7738           5         25.7805           5         0.23215           5         0.23215           5         4486.3           4         7.71466           1         8.01591           3         3.843           5         5.46473	Stochastic -0.69 -0.69 -0.69 -0.22 Stochastic 0.22 Stochastic 0.526 -0.526 -0.526 -0.526 -0.7 -0.526 -0.7 -0.526 -0.7 -0.526 -0.7 -0.526 -0.7 -0.526 -0.7 -0.526 -0.22	Siochastic 0 0.2 0.2 Siochastic 0 138 2.61E+04 44.1 3.59E+03 2.65E+04 146.464 0 11.6735 105.774 20.4581 126.232 137.906 1.24182 199.095 25694.3 26693.4 1.60698 42.5363 44.1432 20.5855 20.5855 297.431	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           Stochastic           0           1.32E+04           20.8           1.55           1.77E+03           140.905           72.257           0           5.75903           52.1831           10.0929           62.2759           68.035           0.612646           96.9173           13090.2           13189.1           0.798634           19.9977           20.7963           10.1415           144.669	Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 0 12.2 2.25E+03 3.83 26.9 3.83 26.9 3.83 26.9 3.83 27.964 15.6161 0 1.34667 8.49213 2.36357 10.8557 12.2044 0.143471 23.0237 2231.92 2254.94 0.186744 3.64215 3.8269 2.37542 24.4832 24.4832	Stochastic           0.2           0.2           0.2           0.2           0.2           Stochastic           0           2.31E403           3.76           2.31E403           321           3232           16.2721           0           11.0374           12.4537           0.150664           24.2175           2284.8           2309.01           0.19565           3.56493           3.76058           2.49066           25.4367	Stochastic           0         0.2           0.2         0.2           0.2         0.2           Stochastic         0           1.35E+03         16           1.35E+03         107.466           55.1199         0           0.2         3.9.8066           7.6991         47.5057           51.8989         0.467343           0.467343         74.8617           97856.29         0.609684           15.3605         15.9702           7.74682         110.51	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           103           1.91E+04           31.4           230           2.68E+03           213.208           109.335           0           8.71417           78.9599           15.2718           94.2317           102.946           0.927015           149.343           18934.9           19084.2           1.2055           30.1517           31.3572           15.3617           214.962	Stochastic 0.2 0.2 Stochastic 0.3 Stochastic 0.3 Stochastic 0.3 0.50E+03 10.5 0.50E+03 10.5 0.50E+03 10.5 0.50E+03 0.345564 0.257074 0.257	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         2.03E+03           2.03E+03         2.03E+03           2.03E+03         2.03E+03           2.03E+03         2.03E+03           2.03E+03         0.00           2.03E+03         0.0126           0.0126964         20.000.34           2.0267.44         0.164852           2.95359         3.11844           2.10557         2.1.5185	Stochastic           0.2           0.2           0.2           0.2           Stochastic           0           4.60           890           1.42           10.4           0.2           1.42           10.686           5.96785           0.515406           0.903266           4.14863           0.0548291           8.79815           885.776           0.0709732           1.34934           1.42031           0.907366           9.53794	Stochastic           0           0.2           0.2           0.2           Stochastic           0           1.14E+03           1.35           157           13.9617           7.79676           0           0.673355           4.23991           1.16007           5.41998           6.09334           0.0716316           115348           1124.52           1136.05           0.0930038           1.73848           1.814805           1.18605           12.3239	Stochastic           0           0.2           0 2           0 2           0 2           Stochastic           0           40 2           7.93E+03           12.6           92.3           1.04E+03           75.2229           34.7613           0           2.4596           33.4299           4.31051           37.7404           40.2           0.261652           41.9128           7886.69           7928.6           0.338499           12.3064           12.6449           4.33107
Baseflow Total Phosphorus Estimation Method         Baseflow Total Nitrogen Mean (log mg/L)         Baseflow Total Nitrogen Standard Deviation (log mg/L)         DUT - Mean Annual Load (kg/yr)         OUT - TP Mean Annual Load (kg/yr)         OUT - TN Mean Annual Load (kg/yr)         OUT - Toss Poliulant Mean Annual Load (kg/yr)         Rain In (ML/yr)         ET Loss (ML/yr)         Baseflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Outflow (ML/yr)         TSS Total Stormflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TP Total Stormflow Out (ML/yr)	Slochastic 0 0.2 0.2 Stochastic 0 1.73E+04 28 0 1.73E+04 1.89.431 97.1418 0 7.74239 70.1544 13.5687 83.7231 91.4655 0.823636 132.405 17196.6 17299 1.06926 26.8884 27.9577 13.6321 13.6321	Stochastic C 0.2. Stochastic C 151 2.82E+02 47.1 3.94E+02 160,524 C 160,524 C 12.794 115 925 22.4215 138,33 151,144 1.36103 218,216 28021.3 282239.5 1.76341 45,3177 47,0811 22.4761	Stochastic           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.334           68.1           0.332           62.9133           32.2625           0.25714           23.2997           4.50645           27.8061           30.3775           0.273546           43.8227           5781.56           5825.38           0.355471           8.97724           9.33271           4.53643           63.5176           68.0563	Stochastic           0         0           2         0.2           2         0.2           2         0.2           2         0.2           Stochestic         0           4         25.8           3         4.92E+03           3         8.02           1         58.5           1         671           9         53.3932           2         27.3805           0         0           4         2.18227           7         19.7385           3.82449         1           1         23.5983           5         0.23215           5         0.23215           5         0.23215           5         0.4923.44           1         0.301249           4         7.71466           1         8.01591           3         3.4433           5         58.4903	Stochastic -0.69 -0.69 -0.62 Stochastic 0.22 Stochastic 0.526 5.83 0.526 0.35.6901 27.3493 0.0 29.1744 0.511286 8.03032 0.310357 11.6106 429.468 441.079 0.0583727 0.467555 0.525927 0.850422 0.85042	Siochastic 0 0.2 0.2 Siochastic 0 138 2.61E+04 44.1 3.59E+03 2.85.612 146.464 0 11.6735 105.774 20.4581 126.232 137.906 1.24182 199.095 25694.3 26093.4 1.60698 42.5363 44.1432 20.5855	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.132E+04           20.8           1.32E+04           20.8           1.32E+04           20.8           1.32E+04           20.8           1.32E+04           20.8           1.32E+04           0.575903           52.1831           10.0929           62.2759           68.035           0.612646           96.9173           13090.2           13189.1           0.798634           19.9977           20.7963           10.1415	Slochastic 0 0.2 0.2 Slochastic 0 12.2 2.25E+03 3.83 26.9 3.83 26.9 3.83 27.964 15.6161 0 1.34867 8.49213 2.36357 10.8557 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 23.0237 12.2044 0.143471 2.30327 12.2044 0.143471 2.30327 12.2044 0.143471 2.30327 2.2554.94 0.186744 3.8269 2.37542	Stochastic           0.2           0.2           0.2           0.2           Stochastic           0           12.5           2.31E403           3.76           2.31E403           321           28.8765           16.2721           0           14.41628           8.55536           2.48207           11.0374           12.4537           0.150664           24.2175           2284.8           2309.01           0.19565           3.56493           3.76058           2.49066	Stochastic           0         0.2           0.2         0.2           Stochastic         0           9.86E403         16           1.135E403         16           1.135E403         107.466           55.1199         0           47.5057         51.8989           0.467343         74.8617           9781.42         9856.29           0.609684         15.3605           15.9702         7.74682           110.51         118.257	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           Stochastic           0           103           1.91E+04           2.68E+03           2.13.208           109.335           0           8.71417           78.9599           15.2718           94.2317           102.946           0.927015           149.343           18934.9           19084.2           1.2055           30.1517           31.3572           15.3617           214.962           230.324	Stochastic           0.2           0.2           Stochastic           0.3           6.50E+03           10.4           65.0E           33.6           2.51055           2.51055           2.5.1055           2.5.1055           2.6.7041           4.33984           33.615           0.267074           42.7594           6457.6           0.345564           10.1934           10.533           4.42204           72.522           76.5742	Stochastic           0         0.2           0.2         0.2           Stochastic         0           10.5         2.03E+03           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         3.12           2.03E+03         0.126           2.09163         9.30121           10.4947         0.126964           2.006.34         2006.34           2.0026.74         0.164652           2.95359         3.11844           2.10557         2.1.5186           2.3.6243         23.6243	Stochastic           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.460           899           1.42           10.6866           5.96783           0.003266           4.14863           0.66402           0.0548291           8.79815           865.776           895.574           0.0709735           1.34934           1.42031           0.907366           9.53794           10.4455	Stochastic           0           0.2           0.2           0.2           Stochastic           0           1.14E+03           1.13.5           157           13.9617           7.79676           0           0.673355           4.23991           1.18007           5.41998           0.0716316           11.5348           1124.52           1136.05           0.093038           1.73848           1.83148           1.83148           1.18025           12.3239	Stochastic           0           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0.2           0           2.02           38491           1.04E+03           75.2229           34.7613           0           2.4596           33.4299           4.31051           37.7404           40.2           0.261652           41.9128           7928.6           0.338499           12.3064           12.6449           4.3107           87.9537           92.2848

Source nodes									1-		Dec o /E2)	MDB1cord 1 and 2 (c)	Welland 3a and 3b Area (Q)	Welland Area 1 and 5 (K2
Location	Sub-Catch I		2 Riparian Zone D	Sub-Catch E1			Riparian Zone Q		Bioretention E1 (west)		42	2 47		18
D	26	6	27 2	8 35	i <u>36</u>	37	38	39 ExactCourseNada		ForestSourceNode	ForestSourceNode	UserDefinedSourceNode	UserDefinedSourceNode	UserDefinedSourceNode
Node Type			de ForeslSourceNode		ForestSourceNode	ForestSourceNode	ForestSourceNode	PorestSourcewoue	5 0.08					1 1.3
Total Area (ha)	1.161		302 0.						<u> </u>	0.10	1.10400087			1 1.3
Area Impervious (ha)	0.451924342				0.729875614				·	3 0.15				0
Area Pervious (ha)	0.709075658								<u></u>				13	35 1
Field Capacity (mm)	135		135 13				i <u>135</u>			-		·		20 2
Pervious Area Infiltration Capacity coefficient - a	200	0	200 20	0 200	200	200	200	20	<u> </u>	1 1		1 1		1
Pervious Area Infiltration Capacity exponent - b	1	1	1	1 <u>1</u>	1	1			5 3.	5 3.5	3.9	5 3.5	3	.5
Impervious Area RaInfall Threshold (mm/day)	3.5		3,5 3.	-					<u> </u>	·			17	75 1
Pervious Area Soil Storage Capacity (mm)	170		170 17											30
Pervious Area Soil Initial Slorage (% of Capacity)	30		30 3										<u>_</u>	50
Groundwater Initial Depth (mm)	50		50 5						•					25
Groundwater Daily Recharge Rate (%)	25	5	25 2			25			5	5 5		5 5		5
Groundwater Daily Baseflow Rate (%)	1 5	5	5	5 5	5 5				<u> </u>	<u> </u>		0 0		0
Groundwater Daily Deep Seepage Rate (%)		<u> </u>	0	0 0	0 0		<u> </u>	1	9 1.	9 1.9	1.9	6 -1		-1
Stormflow Total Suspended Solids Mean (log mg/L)	2.15		i.96 1.9						*					0
Stormflow Total Suspended Solids Standard Deviation (log mg/L)	0,39		0.51 0.5					Stochastic	Stochastic	Siochastic	Stochastic	Stochastic	Stochastic	Stochastic
Stormflow Total Suspended Solids Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic			0 0		ó  0		0
Stormflow Total Suspended Solids Serial Correlation			0	0	0		-0.65	-1.	1 -1.	1 -1.1	-0,6	5 -1		-1
Stormflow Total Phosphorus Mean (log mg/L)	-0.6		.65 -0.6							· · · · · · · · · · · · · · · · · · ·	*1-			0
Stormflow Total Phosphorus Standard Deviation (log mg/L)	0,31		0.2					Slochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Slochastic
Stormflow Total Phosphorus Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic 0		0	0 0		0 0	r	0
Stormflow Total Phosphorus Serial Correlation	<u> </u>	0	0	0 0	0 0		<u> </u>		5 -0.07	5 .0.075	0.3	2 -1	1-	-1
Stormflow Total Nitrogen Mean (log mg/L)	0.3		0.32 0.3						*					0
Stormflow Total Nitrogen Standard Deviation (log mg/L)	0,23		0.3 0.					Stochastic 0.2	Stochastic	Slochastic	Stochastic	Stochastic	Stochastic	Stochastic
Stormflow Total Nitrogen Estimation Method	Stochastic	Stochastic	Stochastic	Slochastic	Stochastic	Stochastic	Stochastic	Stochastic		0100000000		0 0	1	0
Stormflow Total Nitrogen Serial Correlation		00	0	0 0			0.51	0.5	0.5	1 0.51	0,5	1 -1		-1
Baseflow Total Suspended Solids Mean (log mg/L)	1.1		).51 0.5						·					0
Baseflow Total Suspended Solids Standard Deviation (log mg/L)	0.34	- I	0.28 0.2						Stochastic	Slochastic	Stochastic	Stochastic	Stochastic	Stochastic
Baseflow Total Suspended Solids Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochaslic	Stochastic	Stochastic	Stochastic		0 0	7	0 0		0
Baseflow Total Suspended Solids Serial Correlation		0	0	0 0	-	(	<u> </u>	-1.7	9 -1.7	9 -1.79	-1.7	-1		-1
Baseflow Total Phosphorus Mean (log mg/L)	-0.97		.79 -1.7						·				1	0
Baseflow Total Phosphorus Standard Deviation (log mg/L)	0.31		0.2						Stochastic 0.2	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic
Baseflow Total Phosphorus Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochaslic	Stochastic	Stochastic	Stochastic		0 0		0 0		0
Baseflow Total Phosphorus Serial Correlation		0	0	0 0	0		-0.59	-0.5	·	•	-0.5	9 -1		-1
Baseflow Total Nitrogen Mean (log mg/L)	0.2		.59 -0.5					-0.5		·				0
Baseflow Total Nitrogen Standard Deviation (log mg/L)	0.2		0.22 0.2						Stochastic	Siochastic	Stochastic	Stochastic	Stochastic	Stochastic
Baseflow Total Nitrogen Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochaslic	Stochaslic	Stochastic	Stochastic		0 0	n	0 0		0
Baseflow Total Nitrogen Serial Correlation		0	0	0 0			5.03	1.1	4 0.18	9 0.342	2 22	5 4.6	7.	51 1
OUT - Mean Annual Flow (MLAr)	5.02		5.85 1.2									·	0.7	
OUT - TSS Mean Annual Load (kg/yr)	950		751 15							·	-	·		
OUT - TP Mean Annual Load (kg/yr)	1.46		.15 0.24											
OUT - TN Mean Annual Load (kg/yr)	11.4		1.6 2.5						0.14	n <u>0.232</u>	0 41			76
OUT - Gross Pollutant Mean Annual Load (kg/yr)	129		9.2 8.5						0.64155	6 1.52088			10.13	
Rain In (ML/yr)	11.7716							3.8848		<u> </u>		*	2.629	25 3.67
ET Loss (ML/yr)	6.69309	9 17.2	942 3.7563	4 50.106			3 14.8752	3,0040	0.0440					0
Deep Seepage Loss (ML/yr)	0		0	0 0	0			0.41440	0.068791	7 0.124322	2 5.1639	4 0		0
Baseflow Out (MLAyr)	0.586976							0,41440	0 0.000191	0 0	0 8.2572		7.509	97 10.4
mp. Stormflow Out (ML/yr)	3.40044							0.72626	0.12055	0 0.217876	-		<u></u>	0
Perv, Stormflow Out (ML/yr)	1.02869					6,30613		0.72626					7.509	
Total Stormflow Out (ML/yr)	4.42913			8 54.4003				1.1406		· · · ·		<u> </u>	7.509	
Total Outflow (ML/yr)	5.01611					11.620		0.044084						0
Change In Soil Storage (MLAyr)	0.0624428							0.044084					<u></u>	0
ISS Baseflow Out (ML/yr)	9.99265			5 60.6084				63.078					0.7509	
FSS Total Stormflow Out (ML/yr)	940.206												0.7509	
SS Total Outflow (MLAyr)	950.198							64,729		···			<u></u>	0
TP Baseflow Out (ML/yr)	0.0809891			9 0.489491				0.008293					0.7509	97 1.04
P Total Stormflow Out (ML/yr)	1.40256							0.064852	···	-				
	1.48355	5 1.14	508 0.24241					0.073146			-		<u></u>	
TP Total Outflow (ML/yr)							- 0 AEEA3A	0.12094	0.020073	V.U304235				97 1.04
TP Total Outflow (ML/yr) TN Basellow Out (ML/yr)	1.03497	7 0.529	134 0.11506							0.015000		ISI 0.450611	11 07509	
				9 125.155	29.3375	21.24	9.39214	0,72240	0.12089					
N Baseflow Out (ML/yr)	1.03497	1 11.02	296 2.4214 588 2.5365	9 125.155	29.3375 30.3383	21.249	9 9.39214 5 9.84757	0.72240	0.12089			0.459611	0.7509	97 1.04

Source nodes	Sub-Catch E2	Sub-Catch A2	Swale A2	Bio-retention G2	Bioretention G1	Bio-retention F2	Bio-retention H	Sub-Calch F1	Bio-retention (E1 east)		Sub-Catch A comm east	Sub-Catch A commercial West	74	Sub-Catch A3 77	Sub-Calch A4
D	50	<u>і </u> .	55	61	62	63	65				70			UrbanSourceNode	Lirban SourceNo
lode Type	UrbanSourceNode	UrbanSourceNode	ForestSourceNode	ForestSourceNode	ForestSourceNode	ForestSourceNode	ForestSourceNode	UrbanSourceNode	ForestSourceNode		UrbanSourceNode	UrbanSourceNode 2.044			
Total Area (ha)	10.903			0.199	0.109	0.235	0.218	9.740	0.003		7.555	1.429455263			
Area Impervious (ha)	5.935572366				0 0	0	<u> </u> 0	5,867184386		0.345961096		0.61454473			2.2037052
Area Pervious (ha)	4,969427632			0.199	0.109	0,235	0.218	3,880815614							<u><u><u> </u></u></u>
Field Capacity (mm)	13					135	135	135							
Pervious Area Infiltration Capacity coefficient - a	200					200	200	200	200	200	200		<u>, 200</u>		· · · · · ·
Pervious Area Infiltration Capacity exponent - b			<u> </u>	il <u> </u>	1	1	1		1	1	1	3.			
Impervious Area Rainfall Threshold (mm/day)	3.0	5 3.8	3.5	1	3.5	3.5	3.5	3.5	3.5						
Pervious Area Soil Storage Capacity (mm)	170				170	170	170								
Pervious Area Soil Initial Storage (% of Capacity)							30								
Groundwater Initial Depth (mm)	- 50		50 50				50	50		50					
Groundwater Daily Recharge Rate (%)	25				25	25	25	25	525	25	5 25		<u> </u>		
Groundwater Daily Reseries Rate (%)				<u> </u>	5 5		5 5		5 5	il	<u> </u>				
Groundwater Daily Deep Seepage Rate (%)			<u></u>			0				<u> </u>		2.1		2.15	<u> </u>
Stormflow Total Suspended Solids Mean (log mg/L)	2.15	5 2.1	1.9	19	1.9	1.9	1.9	2.15							/
Stormflow Total Suspended Solids Mean (log mg/L)	0.39						0.2	0.39	0.2	0.39			Stochastic	Stochastic	Stochastic
Stormflow Total Suspended Solids Estimation Method	Stochastic	Stochastic	Slochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochaslic	Stochastic	Stochastic	Stochastic	Stochastic		
Stormflow Total Suspended Solids Serial Correlation	0100110300					0	) (	(	) 0		<u> </u>		<u> </u>	-0,6	
Stormflow Total Phosphorus Mean (log mg/L)	-0.0	-0,6	-1.1	-1.1	-1.1	-1.1	-1.1								<u> </u>
Stormflow Total Phosphorus Standard Deviation (log mg/L)	0.3					0.22	0.22	0.3	0.22					Stochastic	Stochastic
Stormflow Total Phosphorus Standard Deviation (log mg/c)	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic		
Stormflow Total Phosphorus Serial Correlation	0100112300	1 1				0			0			0.	3 0,3	03	<u></u>
Stormflow Total Nitrogen Mean (log mg/L)	0.3	0.3	-0.075	-0.075	-0.075	-0.075	-0.075	0.3							
Stormflow Total Nitrogen Standard Deviation (log mg/L)	0.23						0.24	0.23					· · · · · · · · · · · · · · · · · · ·		Stochastic
Stormflow Total Nitrogen Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Slochastic	Stochastic	Slochastic	Stochastic	Stochastic	Stochastic		
Stormflow Total Nitrogen Serial Correlation	0.00010300					0						<u> </u>	<u> </u>		
Baseflow Total Suspended Solids Mean (log mg/L)	1.1	<u> </u>	0.51	0.51	0.51	0.51	0.51				11.1				
Baseflow Total Suspended Solids Standard Deviation (log mg/L)	0.34					0.28	0.28	0.34	4 0.28			·	•••	Stochastic	Stochastic
Baseflow Total Suspended Solids Standard Deviation (log mg/L)	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Slochastic	Stochastic		10100180380
Baseflow Total Suspended Solids Serial Correlation	010010300	1 1										-0.9	7 -0.9	-0.97	<u>,</u>
Baseflow Total Suspended Solids Senal Correlation Baseflow Total Phosphorus Mean (log mg/L)	-0.97	-0.9	-1.79	-1.79	-1.79	-1.79	-1.79	-0.9	7 -1.79						
Baseflow Total Phosphorus Standard Deviation (log mg/L)	0.3							0.3			·	·	Stochastic	Stochastic	Stochastic
Baseflow Total Phosphorus Standard Deviation (og more) Baseflow Total Phosphorus Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic		100010300
Baseflow Total Phosphorus Serial Correlation	100010300								0 (		0	<u> </u>		0.2	<u></u>
Baseflow Total Nitrogen Mean (log mg/L)	0.2	0	-0.59	-0.59	-0.59	-0.59	-0.59	0.3					• · · · · · · · · · · · · · · · · · · ·		
Baseflow Total Nitrogen Standard Deviation (log mg/L)	0.2							0.	2 0.22	2 0.3			Z 0.4 Stochastic	Stochastic 0.2	Stochastic
Baseflow Total Nitogen Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic		
Baseflow Total Nitrogen Serial Correlation	101011111000					0			0 0	<u>ا ا</u>		<u> </u>	1 21.	14.2	2
OUT - Mean Annual Flow (ML/vr)	55.7		0.374	0.489	0.249	0.536	0.497	52.	8 0.189						
OUT - TSS Mean Annual Load (ku/yr)	1.08E+04							1.06E+0					-		
OUT - TS Mean Annual Load (kg/yr)	17.5							16.4	4 1.24E-02						
	125							11	9 0.143						·
OUT - TN Mean Annual Load (kg/yr) OUT - Gross Pollutant Mean Annual Load (kg/yr)	1.45E+03			0.000		0		1.36E+0		97.9					
Rain In (ML/vr)	110.568			2.01771	1.10518	2.38272	2.2103	98.837					•		
ET Loss (MLAr)	54.458		1.27423			1.82589				9 4,9650	7 31.514	7 8.5263	1 28.092	10,0004	1 41.1 nl
Deep Seepage Loss (ML/yr)	J-14000	1 00.440	1.21423	<u></u>					0 (	0	0		3 2.4636	1.61022	2 1.6
Baseflow Out (ML/yr)	4,15759	4.68519	0.135926	0,243388	0,0903411	0.194772	0.180682	3.2317	2 0.068791			0.5082			-
Dasenow Out (ML/yr)	44.224			0.240000				43,924		0 2,6104					
Perv. Stormflow Out (ML/yr)	7.28629		0.238214	0.246042	0.158325	0.341343	0,3166	5.6636							
Total Stormflow Out (ML/yr)	51.5103		0.238214			0.341343			8 0.12055						-
Total Stormhow Out (ML/yr)	55.6679		0.236214		0.248666	0.536115			7 0.18935					-	
Change in Soil Storage (ML/yr)	0.442285		0.0144599			0.0207198	· · · · · · · · · · · · · · · · · · ·								
	70.8662					0.776994			1 0.27350						
TSS Decoflow Out (MI Ar)	10770.3					30,3397		10503.							
TSS Baseflow Out (ML/yr)			20.8013						8 10.704	5 698.01					
TSS Total Stormflow Out (ML/yr)					0.00179999	0.00387685									
TSS Total Stormflow Out (ML/yr) TSS Total Outflow (ML/yr)	10841.2		0.002/12/0						5 0.011058						-
TSS Total Stormflow Out (ML/yr) TSS Total Outflow (ML/yr) TP Baseflow Out (ML/yr)	0.577184		0.0212244	1 0.0220100						4 1.1432	9 14.131				
TSS Total Stormflow Out (ML/yr) TSS Total Outflow (ML/yr) TP Baseflow Out (ML/yr) TP Total Stormflow Out (ML/yr)	0.577184 16.881	11.758					1 0.0329049	3   0.401							0 3,2
TSS Total Stormflow Out (ML/yr) TSS Total Outflow (ML/yr) TP Baseflow Out (ML/yr) TP Total Stormflow Out (ML/yr) TP Total Outflow (ML/yr)	0.577184 16.881 17.4582	11.754	0.0239472	0.0276696	0.0163042	0.034282				2 0.76189					1 04
TSS Total Stormflow Out (ML/yr)           TSS Total Outflow (ML/yr)           TP Baseflow Out (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Outflow (ML/yr)           TN Baseflow Out (ML/yr)	0.577184 16.881 17.4582 7.356	11.758 2 12.403 3 8.2480	0.0239472 0.0397401	0.0276696	0.0163042 0.0264126	0.0342823	6 0.052995	5.7050	3 0.020086	2 0.76189	2 99.235	5 26.57	9 42.597	7 28.5741	
TSS Total Stormflow Out (ML/yr) TSS Total Outflow (ML/yr) TP Baseflow Out (ML/yr) TP Total Stormflow Out (ML/yr) TP Total Outflow (ML/yr) TN Baseflow Out (ML/yr) TN Total Stormflow Out (ML/yr)	0.577184 16.881 17.4582 7.356 117.661	11.758 2 12.403 3 8.2480 81.374	0.0239472 0.0397401 0.230907	0.0276696 0.071187 0.233734	0.0163042 0.0264126 0.158534	0.0342823 0.0567820 0.32703	6 0.052995 3 0.31680	5.7050 5 113.70	3 0.020086 8 0.12341	2 0.76189 2 7.864	99.235 9 102.54	5 <u>26.57</u> 6 <u>27.46</u>	i9 42.597 18 46.935	7 28.5741 4 31.4112	2 37.
TSS Total Stormflow Out (ML/yr)           TSS Total Outflow (ML/yr)           TP Baseflow Out (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Outflow (ML/yr)           TP Total Outflow (ML/yr)           TN Baseflow Out (ML/yr)	0.577184 16.881 17.4582 7.356	11.758 12.403 8.24805 81.374 7 89.622	0.0239472 0.0397401	0.0276696 0.071187 0.233734 0.304921	0.0163042 0.0264126 0.158534	0.0342823 0.0567820 0.32703	6 0.052995 3 0.31680	5.7050 5 113.70	3 0.020086 8 0.12341 3 0.14349	2 0.76189 2 7.864	99.235 9 102.54	5 <u>26.57</u> 6 <u>27.46</u>	i9 42.597 18 46.935	7 28.5741 4 31.4112	2 37.3

Source nodes			1	0.4 0.14 50	Cub Coleb Ed	Sub-Catch E5	Sub-Calch E6	Weiland 1a (M)	Welland 6a and 6b (D)	A Rural 1	Sub-Catch B roof		Sub-Calch D roof	Sub-Catch G-2 root	Sub-Catch H roof
Location	A Rural 2	Sub-Catch A1	A rural 3		Sub-Catch E4				67	00	60	101	103	106	108
ID	62	85	i <u>89</u>		93	94	Ulden CourceMede	LicorDofinedSourceMode	97 UserDefinedSourceNode	ForestSourceNode	UrbanSourceNode	UrbanSourceNode	UrbanSourceNode	UrbanSourceNode	JrbanSourceNode
Node Type			ForestSourceNode	UrbanSourceNode	UrbanSourceNode	UrbanSourcenooe	2.566	0.331	0.71	7,409	0.546	4.4.			
Total Area (ha)	7.123			3.956	9.869	2.60		0.331		0,393846842	0.546	0.57	1.008	0.174	0.4
Area Impervious (ha)	0.378643684		0.277408904		5,284243509						0	0	0	0	(
Area Pervious (ha)	6.744356316				4.584756491	1.199563020		135	135		135	135	135		13
Field Capacity (mm)	135										200	200	200	200	20(
Pervious Area Infiltration Capacity coefficient - a	200	200	200	200	200	20	200	200		1	1		1	1	
Pervious Area Infiltration Capacity exponent - b	1	1	1	1	1			- 3.5	35	3.5	3.5	3.5	3.5		3.
Impervious Area Rainfall Threshold (mm/day)	3.5										170		170	170	170
Pervious Area Soil Storage Capacity (mm)	170	170				170					30		30	30	30
Pervious Area Soil Initial Storage (% of Capacity)	30					3				50	50		50	50	5
Groundwater Initial Depth (mm)	- 50									25	25		25	25	2
Groundwater Daily Recharge Rate (%)	25	25	5 25	25	25	2	i <u>25</u>		20		5	5	5	5 5	
Groundwater Daily Baseflow Rate (%)	5	5	5 5	5	5		5					0	0	0	
Groundwater Daily Deep Seepage Rate (%)	0	0	0	0	0		· ·			1.96	1.301	1.301	1.301	1.301	1.30
Stormflow Total Suspended Solids Mean (log mg/L)	1.96	2.15	1.96						<u> </u>	0.51	0.39		0.39	0.39	0.3
Stormflow Total Suspended Solids Standard Deviation (log mg/L)	0.51	0.39	0.51	0.39	0.39				0	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic
	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	0.0001/0300	A	0	0		
Stormflow Total Suspended Solids Serial Correlation	0	0	0 0	0	0	<u> </u>	<u> </u>			-0.65	-0.886	-0.886	-0.886	-0.886	-0.88
Stormflow Total Phosphorus Mean (log mg/L)	-0.65	-0.6	-0.65						<u> i</u>	0.28		l	0,31		0.3
Stormflow Total Phosphorus Standard Deviation (log mg/L)	0.28	0.31	i 0.28	0.31	0.31					Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic
	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic		0100112300 A	0.0010.000	0	0	
Stormflow Total Phosphorus Serial Correlation	0	0	0 0	0	0		00	0	<u> </u>	0.301	0.301	0.301	0.301	0.301	0.30
Stormflow Total Nitrogen Mean (log mg/L)	0,301	0.3	0.301	0.3	0.3				<u> </u>	0.301		0.23			0.2
Stormflow Total Nitrogen Standard Deviation (log rng/L)	0.3	0.23	0.3	0.23	0.23	0.2					Slochastic	Stochastic	Stochastic		Stochastic
	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Slochastic	Stochastic			0100110300		
Stormflow Total Nitrogen Serial Correlation	0.000.0000	0	0 0	0	0			0	<u> </u>	0.51	-10	-10	-10	-10	-1
Baseflow Total Suspended Solids Mean (log mg/L)	0.51	1.1	0.51	1.1	1,1	1.		1							0.3
Baseflow Total Suspended Solids Standard Deviation (log mg/L)	0.28	0.34			0.34	0.3	0.34		00			Stochastic 0.04	Stochastic	Stochastic	Stochastic
	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic		010018300		
Baseflow Total Suspended Solids Serial Correlation	otocituset f	0.00010000		0	C			0	0		-10	-10	-10	-10	
Baseflow Total Phosphorus Mean (log mg/L)	-1.79	-0.97	-1.79	-0.97	-0.97	-0.9			<u> </u>	-1.79		0.31	0.31		- 0.3
Baseflow Total Phosphorus Standard Deviation (log mg/L)	0.28				0.31	0.3	0.31	(	0	0.28			Stochastic		Stochastic
	Stochastic	Slochastic	Stochastic	Stochaslic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic		1 1	Quodendobo
Baseflow Total Phosphorus Serial Correlation	0100110300			0	0							-10	-10	-10	
Baseflow Total Nitrogen Mean (log mg/L)	-0.59	0.2	-0.59	0.2	0.2	0.	2 0.2								0
Baseflow Total Nitrogen Standard Deviation (log mg/L)	0,22						2 0.2			0.22			Stochastic 0,2		Stochastic
	Stochastic		Stochastic	Stochaslic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Slochastic	Stochastic	Stochastic		
	01001105100		1 0	0.000111310	0000,0000		0 0				00		- 763	7 1.31	
Baseflow Total Nitrogen Serial Correlation	18.1	46.5	14.5	20.2	50.4	13.	3 11.2	2.49	5.33		3 4.1				93.
OUT - Mean Annual Flow (ML/yr)	2.33E+03				1.00E+04	2.62E+0		0.249							0.50
OUT - TSS Mean Annual Load (kg/yr)	2.33E+03				15.7	4.1	-								6
OUT - TP Mean Annual Load (kg/yr)					116	30.			0.533						70
OUT - TN Mean Annual Load (kg/yr)	32				1.31E+03	34									4.0556
OUT - Gross Pollulant Mean Annual Load (kg/yr)	121	1.20E+03			100.064	26.43									1.051
		400 570				20.70				55,661	1.43558	1.49867	2.6503	∆ı 0.45/489i	1.001
Rain In (ML/yr)	72.2217					13 01	14.6609		1.86677	30.001					
ET Loss (ML/yr)					49.2846	13.01			5 <u>1.8667</u>	) (	0 0		(	0 0	
ET Loss (ML/yr) Deep Seepage Loss (ML/yr)	72.2217 53.5129	59.5146	6 42.7699 0 0	19.7557	49.2846		0 0	0.870286		5.8336				0 0	
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr)	72.2217 53.5129 0 5.60848	59.5146 0 5.1399	6 42.7699 0 0 4.48253	19.7557 0 1.50825	49.2846	0.99393	0 0	0.870286		5.8336 3 2.7820	0 7 0 4.10045		7.5700	0 0	3.0039
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr)	72.2217 53.5129 0 5.60848 2.67468	59.5146 5.1399 32.3643	42.7699           0         0           4.48253         2.13771	19.7557 0 1.50825 16.0431	49.2846 0 3.76261 40.0226	0.99393	0 0 3 1.27605 4 7.70823	0.870286		5.8336           2.7820           10.223	5 0 7 0 7 4.10045 7 0		(	0 0 0 0 5 1.30674 0 0	
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) (mp. Stormflow Out (ML/yr) Perv. Stormflow Out (ML/yr)	72.2217 53.5125 5.60848 2.67468 9.825	59.5146 0 5.1399 32.3643 0 9.0078	42.7699           0         0           4.48253         2.13771           2         7.85575	19.7557 0 1.50825 16.0431 2.64324	49.2846 0 3.76261 40.0226 6.59407	0.99393 0.99393 0.572 1.7418	0 3 1.27605 4 7.70823 9 2.2363	0.870286		5.8336           2.7820           10.223	5 0 7 0 7 4.10045 7 0 7 4.10045	0         0           0         0           0         4.28068           0         0           0         0           5         4.28068	7.5700	0 0 0 0 5 1.30674 0 0 5 1.30674	3.0039
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Perv. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr)	72.2217 53.5125 5.60848 2.67468 9.825 12.5037	59.5146 5.1399 32.3643 9.0078 41.3721	42.7699           0           4.48253           2.13771           3           7.85575           9.99347	19.7557 0 1.50825 16.0431 2.64324 18.6863	49.2846 3.76261 40.0226 6.59407 48.6167	0.99393 10.572 1.7418 12.314	0 0 3 1.27605 4 7.70823 9 2.2363 3 9.94454	0.870286 0 2.4856 0 2.4856		5.8336           2.7820           10.223           3.13.005	5 0 7 0 7 4.10045 7 0 7 4.10045	0         0           0         0           0         4.28068           0         0           0         0           5         4.28068	7.5700	0 0 0 0 5 1.30674 0 0 5 1.30674	3.0039
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Perv. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Total Outflow (ML/yr)	72.2217 53.5125 5.60848 2.67465 9.825 12.5037 18.1122	59.5146 0 5.1399 32.3643 9.0078 41.3721 46.512	42.7699           0         0           3         4.48253           2         1.3771           3         7.85575           9.90347         9.90347           2         14.476	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946	49.2846 3.76261 40.0226 6.59407 48.6167 50.3793	0.99393 10.572 1.7418 12.314 13.308	0 3 4 7.70823 9 2.2363 3 9.94454 2. 11.2206	0.870286 0.48500 0.48500 0.48500 0.48500 0.48500 0.48500 0.48500 0.48500 0.48500 0.485000 0.485000 0.485000 0.48500000000000000000000000000000000000		5.8336           2.7820           10.223           3.13.005	0 4.10045 4.10045 4.10045 4.10045	0         0           0         0           0         4.28068           0         0           0         0           5         4.28068	7.5700	0 0 0 0 5 1.30674 0 0 5 1.30674	3.0039
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Perv. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr)	72.2217 53.5122 5.60844 2.67468 9.822 12.5037 18.1122 0.59663	59.5146 5.1399 32.3643 9.0078 41.3721 46.512 0.546782	42.7699           0         0           3         2.13771           3         7.85575           9.99347         9.99347           2         14.476           2         0.476852	19.7557 0 1.50825 16.0431 2.64324 18.6663 20.1946 0.160447	49.2846 3.7626 40.0226 6.59407 46.6167 50.3793 0.400267	0.99393 10.572 1.7418 12.314 13.308 0.10573	0 3 4 7.7082 9 2.2363 9 9 9 2.3454 2 11.2200 5 0.135746	0.870286 0.48500 0.48500 0.48500 0.48500 0.48500 0.48500 0.48500 0.48500 0.48500 0.485000 0.485000 0.485000 0.48500000000000000000000000000000000000		5.8336 3 2.7820 10.223 3 13.005 3 18.839	4.10045 4.10045 4.10045 4 4.10045	1         1           5         4.28066           1         0           5         4.28068           5         4.28068           5         4.28068           0         0           0         0	7.5700	0 0 0 0 5 1.30674 0 0 5 1.30674 5 1.30674 5 1.30674 0 0 0 0 0 0 0 0 0 0	3.0039
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Perv. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Change in Soil Storage (ML/yr) TSS Baseflow Out (ML/yr)	72.2217 53.5125 5.60846 2.67466 9.825 12.5037 18.1122 0.59665 22.3311	59.5146 5.1399 5.1399 9.0078 41.3721 46.512 0.546782 88.0926	42.7699 0 0 1 4.48253 3 2.13771 3 7.85575 9.99347 2 14.476 2 0.476852 3 17.8445	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946 0.160447 26.7619	49.2846 3.76261 40.0222 6.59407 48.6167 50.3793 0.400265 64.3925	0.99393 10.572 1.7418 12.314 13.309 0.10573 0.10573 0.10573	0 3 4 7.70823 9 2.2363 9 9.94454 2 1.22065 0.135746 5 0.135746 5 0.135746 5 0.135746 5 0.137746 0.137746 0.137746 0.137746 0.1377746 0.1377746 0.1377746 0.1377746 0.1377746 0.1377746 0.1377746 0.1377746 0.1377746 0.1377746 0.13777746 0.13777777777777777777777777777777777777	0.870286 0.870286 2.4855 2.4855 2.4855 0.	5.3320 5.3320 3 5.3320 3 5.3320 3 5.3320 0 0 0	5.8336           0         5.8336           3         2.7820           0         10.223           3         13.005           3         18.839           0         0.620588           0         23.294	0         0           1         0           1         0           1         0           1         0           1         0           3         4.10045           5         0	1         0           5         4.28066           6         4.28066           5         4.28066           5         4.28066           5         4.28066           5         4.28066           6         4.28066           0         0           0         0           1         126.733	7.5700 7.5700 7.5700 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 1.30674 5 1.30674 5 1.30674 5 1.30674 5 1.30674 0 0 0 0 0 0 0 2 39.1941	<u>3.0039</u> 3.0039 93.200
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Total Storage in Soil Storage (ML/yr) TSS Baseflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TSS Total Stormflow Out (ML/yr)	72.2217 53.5125 0 5.60846 2.67466 9.825 12.5037 18.1122 0.59665 22.3311 2309.61	59.5146 5.1399 32.3643 9.0078 41.3721 46.512 0.546782 88.0926 8764.75	42.7699 0 0 1 4.48253 0 2.13771 3 7.85575 1 9.99347 2 14.476 2 0.476852 3 17.8445 5 1917.58	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946 0.160447 25.7819 3978.93	49.2846 3.76261 40.0226 6.59407 48.6167 50.3793 0.400267 64.3922 9952.12	0.99393 10.572 1.7418 12.314 13.309 0.10573 0.10573 0.16.938 2601.0	0 3 4 7.70823 9 2.2365 3 9.94454 2 11.2206 5 0.135746 5 213.743 5 213.44	0.870286 0 2.4855 2.4855 2.4855 2.4855 0 0 24855 0 0 24855	1	6           5.8336           2.7620           10.223           13.005           3           18.839           0.620580           23.294           2406.0°	0         0           4.10045         0           4.10045         0           4.10045         0           4.10045         0           4.10045         0           1         0           1         0           1         118.361	1         0           2         4.28066           3         4.28066           4.28066         4.28066           5         4.28066           5         4.28066           5         4.28066           5         4.28066           6         4.28066           7         0           0         0           126.737         126.737	7.5700 7.5700 7.5700 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 5 1.30674 5 1.30674 5 1.30674 5 1.30674 5 1.30674 0 0 0 0 0 0 0 2 39.1941	<u>3.0039</u> 3.0039 93.200
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Perv. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Change in Soil Storage (ML/yr) TSS Baseflow Out (ML/yr)	72.2217 53.5122 5.60846 2.67466 9.822 12.5037 18.1122 0.59663 22.3311 2309.67 2331.94	59.5146 59.5146 5.1399 32.3643 9.0074 41.3721 46.512 0.546782 88.0928 8764.75 8852.84	42.7699           0         0           3         4.48253           9         2.13771           3         7.85575           9.99347           2         14.476           2         0.476852           3         17.8445           5         1917.58           4         1935.42	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946 0.160447 25.7819 3978.93 4004.71	49.2846 3.76261 40.0226 6.59407 48.6167 50.3793 0.400267 64.3925 9952.12 10016 2	0.99393 10.572 1.7418 12.314 13.308 0.10573 16.936 2601.0 2617.9	0         0           3         1.27605           4         7.70823           9         2.2363           3         9.94454           2         11.2206           5         0.135746           5         213.713           5         213.243           8         2155.25	0.870286 0 2.4856 2.4856 2.4856 2.4856 0 2.4856 0 2.4856 0 2.4856 0 2.4856 0 2.4856 0 2.4856 0 2.4856 0 2.4856 0 2.4856 0 2.4856 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	6           0         5.8336'           3         2.7820'           0         10.223'           3         13.005'           3         18.839'           0         0.620580'           2         2406.0'           3         2429.3'	0         0           4.10045         0           4.10045         0           4.10045         0           4.10045         0           4.10045         0           5         0           7         118.361           3         118.361	1         0           2         4.28066           3         4.28066           4.28066         4.28066           5         4.28066           5         4.28066           5         4.28066           5         4.28066           6         4.28066           7         0           0         0           126.737         126.737	7.5700 7.5700 226.10 226.10	0         0           0         0           5         1.30674           0         0           5         1.30674           5         1.30674           5         1.30674           6         0           0         0           2         39.1941           2         39.39141           0         0	3.003 3.003 93.20 93.20
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Total Storage in Soil Storage (ML/yr) TSS Baseflow Out (ML/yr) TSS Total Stormflow Out (ML/yr)	72.2217 53.5122 5.60844 2.67466 9.822 12.5037 18.1122 0.59663 22.3311 2331.94 0.111644	59.5146 5.1399 3.2.3643 9.0078 41.3721 46.512 0.546762 88.0928 8764.75 8852.84 0.70907	42.7699           0         0           2         4.48253           3         2.13771           3         7.85575           9.99347         14.476           2         0.476835           3         17.8445           5         1917.58           4         1935.42           0.089148         0.089148	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946 0.160447 25.7819 3978.93 4004.71 0.208294	49.2846 3.76261 40.0222 6.59407 48.6167 50.3793 0.400267 64.3925 9952.12 10016 ± 0.520791	0.99393 10.572 1.7418 12.314 13.308 0.10573 0.10573 0.10573 0.2601.0 0.2607.0 0.13687	0 3 4 7.7082 9 2.2363 3 9.94454 2 11.2206 5 0.135744 5 21.7731 5 21.33.41 5 21.52525 6 0.176365 6 0.176365 5 21.52525 5 21.52525 5 0.17605 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7765 5 21.7776 5 21.7776 5 21.7775 5 5 21.7775 5 5 21.7775 5 5 21.7775 5 5 21.7775 5 5 21.7775 5 5 21.7775 5 5 21.7775 5 5 5 5 5 5 5 5 5 5 5 5 5	0.870286 0 2.4850 2.4850 2.4850 0.24850 0.024850 0.024850 0.024850	0	1         5.8336'           3         2.7820'           4         10.223'           5         13.005'           5         13.005'           6         18.839'           1         0.620588'           2         2406.0'           3         2406.0'           3         2429.3'           3         2429.3'           3         2429.3'	0         0           4.10045         0           4.10045         0           4.10045         0           4.10045         0           7         4.10045           6         0           7         118.361           7         118.361           7         0           7         0	1         126.73           1         126.73           1         126.73	7.5700 7.5700 226.10 226.10	0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,003 3,003 93,20 93,20 0,5063
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Total Storage (ML/yr) TSS Baseflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TSS Total Outflow (ML/yr)	72.2217 53.5122 5.60846 2.67466 9.825 12.5037 18.1122 0.59665 22.3311 2309.61 2331.94 0.111644 3.59412	59.5146 5.1399 5.1399 9.0078 41.3721 46.512 0.546782 88.0926 8764.75 8852.84 0.70907 13.3299	42.7699           0           4.48253           2           3           2.13771           3           2           14.476           2           14.476           2           14.476           19.99347           14.476           2           17.8445           1917.58           1935.42           7           0.099148           2           2           2           3           3           3           4           1935.42           7           0.089148           2           2           2           2           3           3           3           4           9           2           2           4           1935.42           1           2           2           2           3           3           3	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946 0.160447 25.7819 3978.93 4004.71 0.208294 6.12727	49.2846 3.76261 40.0222 6.59407 46.6167 50.3793 0.400267 64.3925 9952.12 10016 5 0.520799 15.1618	0.99393 10.572 1.7418 12.314 3 13.306 0.10573 16.938 2.2601.0 2.2617.0 0.13687 4.0000	0 3 1.27605 4 7.70823 9 2.2365 3 9.94455 2 11.2206 5 0.135744 5 2.13347 5 2.13347 5 2.13347 5 2.13347 5 2.13347 5 2.13346 5 2.13546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.17546 5 2.175546 5 2.175546 5 2.175646 5 2.175546 5 2.175546 5 2.175546 5 2.175546 5 2.175546 5 2.175546 5 2.175546 5 2.175546 5 2.175546 5 2.175546 5 2.175546 5 2.175556 5 5 2.175556 5 5 5 5 5 5 5 5 5 5 5 5 5	0.870286 0.000 2.4855 2.4855 2.4855 0.24855 0.24855 0.24855 0.24855 0.24855 0.24855 0.24855	0	0         5.8336'           0         5.8336'           2.7620'         0.10.223'           1         13.005'           3         18.639'           0         0.62058'           0         23.294'           2         2406.0'           3         2429.3'           0         0.11655'           3         3.488'	0         0           4.10045         0           4.10045         0           4.10045         0           5         0           6         0           7         118.361           7         0.696966           3         0.696966	0	7.5700 7.5700 226.10 226.10 1.283	0 0 0 0 0 0 0 0 0 0 0 0 0 0	3,003 3,003 93,20 93,20 0,5063
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Perv. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Total Outflow (ML/yr) TSS Baseflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TS Total Stormflow Out (ML/yr) TS S Total Stormflow Out (ML/yr) TS Baseflow Out (ML/yr) TS Total Stormflow Out (ML/yr) TS Baseflow Out (ML/yr) TS Total Stormflow Out (ML/yr) TS Total Outflow (ML/yr) TS Total Outflow (ML/yr)	72.2217 53.5122 5.60844 2.67466 9.822 12.5037 18.1122 0.59663 22.3311 2331.94 0.111644	59.5146 5.1399 3.2.3643 9.0078 41.3721 46.512 0.546762 88.0928 8764.75 8852.84 0.70907	42.7699           0         0           1         4.48253           2         2.13771           3         7.8575           9.99347         14.476           2         14.476           2         0.476852           3         17.8445           9         1917.58           1         1935.42           0.089148         2.72322           2         2.81237	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946 0.160447 25.7619 3978.93 4004.71 0.208294 6.12727 6.33557	49.2846 3.76261 40.0222 6.59407 48.6167 0.400267 0.400267 0.400267 0.400267 10016 5 0.520791 15.1614 15.6826	0.99393 10.572 1.7418 12.314 3.300 0.10573 3.16.936 2601.0 5.26000.0 5.26000.0 5.26000.00000000000000000000000000000000	0 3 4 7.70823 9 2.2365 3 9.94454 2 11.2206 5 0.135746 5 2.13.745 5 2.13.745 5 2.13.745 5 2.13.47 8 2.155.22 6 0.16566 9 2.3.2634 9 3.26346 9 3.26346 9 3.26346 9 3.26346 9 3.26346 9 3.26346 9 3.26346 9 3.26346 9 3.26346 9 3.26346 9 3.26356 9 3.27365 9 3.475765 9 3.27365 9 3.2737655 9 3.2737655 9 3.2737655 3.2737655 3.2737655 3.2737655 3.2737655 3.2737655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.27577655 3.2757777555 3.275777555 3.2757775557775557755775577557755775757757	0.870286 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.000000	0	6           5.8336           2.7620           10.223           13.005           3           18.839           0.620580           23.294           2406.0           3           2429.3           0.11655           3           3.4987           3.6052	0         0           4.10045         0           4.10045         0           4.10045         0           4.10045         0           1         0           1         0           1         0           1         0           1         0           1         0           1         0           0         0.090966           0         0.696666	0	7.5700 7.5700 226.10 226.10 1.283	0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.003 3.003 93.20 93.20 93.20 0.5063 0.5063
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Perv. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Change in Soil Storage (ML/yr) TSS Baseflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TP Baseflow Out (ML/yr) TP Total Stormflow Out (ML/yr) TP Total Stormflow Out (ML/yr) TP Total Outflow (ML/yr)	72.2217 53.5122 5.60846 2.67466 9.825 12.5037 18.1122 0.59665 22.3311 2309.61 2331.94 0.111644 3.59412	59.5146 5.1399 5.1399 9.0078 41.3721 46.512 0.546782 88.0926 8764.75 8852.84 0.70907 13.3299	42.7699           0         0           2         4.48253           3         2.13771           3         7.85575           9.99347         14.476           2         14.476           2         0.476852           3         17.8445           4         1935.42           7         0.089148           9         2.72322           2         2.81237	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946 0.160447 25.7819 3978.93 4004.71 0.208294 6.12727 6.33557 2.65275	49.2846 3.76261 40.0222 6.59407 48.6167 50.3793 0.400267 64.3925 9952.12 100165 0.520791 15.1616 15.6822 6.62922	0.99393 10.572 1.7418 12.314 13.308 0.10573 16.936 2601.0 2617.9 0.13687 4.0000 4.136 1.7490	0         0           3         1.27605           4         7.70823           9         2.2363           3         9.94454           2         11.2206           5         0.135746           5         213341           8         215525           6         0.176365           2         3.26346           9         3.43965           9         2.24743	0.870284 0.2.4850 2.4850 2.4850 0.24855 0.24855 0.24855 0.24855 0.24855 0.24855	0	6           1         5.8336           2.7820         10.223           2         13.005           3         13.005           3         18.839           0         0.62058           0         23.294           3         2406.0           3         2429.30           0         0.11655           3         3.4887           3         3.6052           1.7010         1.7010	0         0           4.10045         0           4.10045         0           4.10045         0           4.10045         0           4.10045         0           5         0           6         118.361           7         0           3         0.696966           9         0.696966	0	7.5700 7.5700 226.10 226.10 226.10 1.283 1.283	0         0           0         0           5         1.30674           0         0           5         1.30674           5         1.30674           5         1.30674           5         1.30674           6         0           0         0           2         39.1941           2         39.1941           0         0           3         0.220104           3         0.220104           0         0	3.003 3.003 93.20 93.20 93.20 0.5063 0.5063
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Perv. Stormflow Out (ML/yr) Total Outhow (ML/yr) Change in Soil Storage (ML/yr) TSS Baseflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TP Sotal Outhow (ML/yr) TP Total Stormflow Out (ML/yr)	72.2217 53.5122 5.60846 2.67466 9.825 (2.5037 18.1122 0.59665 (22.3311 2309.67 2331.94 0.11164 3.59412 3.70577	59.5146 0 5.1399 32.3643 9.0078 41.3721 46.512 0.546782 88.0922 8764.75 8852.84 0.70907 13.3299 14.039	42.7699           0         4.48253           1         2.13771           3         7.85575           9.99347           2         14.476           2         0.476852           3         17.8445           5         1917.58           4         1935.42           7         0.089148           9         2.72322           9         2.81237           9         1.31088	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946 0.160447 25.7619 3978.93 4004.71 0.208294 6.12727 6.33557	49.2846 3.76261 40.0222 6.59407 48.6167 50.3792 0.400267 64.3925 9952.12 10016.5 0.520791 15.1618 15.8826 6.62922 109.613	0.99393 10.572 1.7418 12.314 13.308 0.10573 16.936 2601.0 2617.9 0.13687 3.4.0000 4.136 1.7490 28.486	0 3 4 7.70823 9 2.2363 3 9.94454 2 11.2206 5 0.135744 5 2.13734 5 2.13734 5 2.13734 5 2.13574 5 2.13544 9 2.24744 9 2.24744 5 2.24744	0.870286 0.870286 0.2.4850 2.4850 2.4850 0.248500 0.248500 0.2485000000000000000000000000000000000000	0	6           0         5.8336           3         2.7820           0         10.223           3         13.005           3         18.839           0         0.62058           0         23.294           3         2406.0           3         2429.3           0         0.11655           3         3.4687           3         3.6052           0         1.7010           3         33.85	0         0           4.10045         0           4.10045         0           4.10045         0           5         0           6         118.361           7         0.696966           9         0.696966           1         0.496966           4         9.43147	0         0         0           0         0         0         0           0         0         0         0         0           0         0         0         0         0         0           0	7.5700 7.5700 226.10 226.10 1.283 1.283 1.283	0         0           0         0           0         0           5         1.30674           0         0           5         1.30674           5         1.30674           5         1.30674           5         1.30674           0         0           0         0           2         39.1941           0         0           3         0.220104           0         0           0         0           2         3.00414	3.0035 3.0035 93.200 93.200 0.5063 0.5063 6.8020
ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Baseflow Out (ML/yr) Imp. Stormflow Out (ML/yr) Total Stormflow Out (ML/yr) Total Storage (ML/yr) TSS Baseflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TSS Total Stormflow Out (ML/yr) TS Total Stormflow Out (ML/yr) TP Baseflow Out (ML/yr) TP Total Stormflow Out (ML/yr) TP Total Stormflow Out (ML/yr)	72.2217 53.5122 5.60846 2.67466 9.822 12.5037 18.1122 0.59663 22.3311 2309.61 22331.94 0.111644 3.59411 3.70577 1.64103	59.5146 5.1399 5.1399 9.0078 41.3721 46.512 0.546782 88.0928 8764.75 8852.84 0.70907 13.3299 14.039 9.05119	42.7699           0         0           2         4.48253           3         2.13771           3         7.85575           9.99347         14.476           2         0.476835           3         17.8445           5         1917.58           4         1935.42           0.089148         2.72322           2         2.81237           9         1.31088           2         24.2866	19.7557 0 1.50825 16.0431 2.64324 18.6863 20.1946 0.160447 25.7819 3978.93 4004.71 0.208294 6.12727 6.33557 2.65275	49.2846 3.76261 40.0222 6.59407 48.6167 50.3793 0.400267 64.3925 9952.12 100165 0.520791 15.1616 15.6822 6.62922	0.99393 10.572 1.7418 12.314 13.306 0.10573 16.936 2601.0 2001.0 20000000000	0         0           3         1.27605           4         7.70823           9         2.2363           3         9.94454           2         11.2206           5         0.135744           5         213.341           6         0.176366           2         3.26346           9         3.43963           9         2.4743           5         22.4774           5         22.4774           6         24.7246	0.870286 0.24856 2.4856 2.4856 0.248566 0.248566 0.248566 0.248566 0.248566666666666666666666666666666	0	1         5.8336'           3         2.7620'           3         2.7620'           3         13.005'           3         18.639'           0         0.62058'           1         23.294'           3         2406.0'           3         2429.3'           0         0.11655'           3         3.4887'           3         3.6052'           1         7.7010'           3         3.385'           3         3.555'	0         0           4.10045         0           4.10045         0           4.10045         0           4.10045         0           5         0           6         0           7         118.361           7         0           3         0.696966           9         0.696966           1         0           4         9.43142           5         9.43142	0	7.5700 7.5700 226.10 226.10 226.10 1.283 1.283 1.283 1.283 1.283 1.283	0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.0039

Source nodes				<u></u>		Cub Calub A2 and	Sub-Catch A2 roof	Sub Calch A1 roof	Sub-Catch A4 roof	Sub-Catch E3 roof	Sub-Catch E5 roof	Sub-Catch E4 roof	Sui
Location		of Sub-Catch J2 roof					121	123	125	127	145	101	· · ·
ID	11	112 e UrbanSourceNode	2 114	116	118	119	121 Lichan Source Mode	Lithan Source Mode			UrbanSourceNode	UrbanSourceNode	Urb
Node Type			UrbanSourceNode	UrbanSourceNode	UrbanSourceNode	0.648	1.873	2.088	0.741	0.605	0.399	1.594	4
Tolal Area (ha)	0.20				1.668		1.873	2.088	0.741	0.605	0.399	1.594	4
Area Impervious (ha)	0.20				1.668	0.648	1.013	2.000	0	0	0	0	IT.
Area Pervious (ha)		0 0	· ·		0			<u> </u>		135	135	135	i T
Field Capacity (mm)	13								200	200	200	200	i T
Pervious Area Infiltration Capacity coefficient - a	20	200	200	200	200		200	200		1	1	1	1
Pervious Area Infiltration Capacity exponent - b		1) 1	11		1					3.5	3,5	3.5	
Impervious Area Rainfall Threshold (mm/day)	3.	.5 3.5									170		
Pervious Area Soil Storage Capacity (mm)	17	70) 170			170						30	30	
Pervious Area Soil Initial Storage (% of Capacity)	3	30 30	30	30							50		
Groundwater Initial Depth (mm)	5	50 50	50 50	50	50			50		25			
Groundwater Daily Recharge Rate (%)	2	25 25	5 25	i 25	25					Z0			5 -
Groundwater Daily Baseflow Rate (%)	1	5 5	5 5	i 5	5	5	5	5					5 -
Groundwater Daily Deep Seepage Rate (%)	1	0 0	ol (	0 0	0	0	0	0			1,301		
Stormflow Total Suspended Solids Mean (log mg/L)	1.30	1.301	i 1.301	1.301	1.301	1.301	1.301	1.301		1,301		0.39	
Stormflow Total Suspended Solids Standard Deviation (log mg/L)	0.3	0.39	0.39	0.39	0.39	0,39	0.39	0.39	0.39	0.39	0.39		Sto
Stormflow Total Suspended Solids Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	1310
Stormflow Total Suspended Solids Serial Correlation		0 0				0	0	0	0	0	0		4—
Stormflow Total Phosphorus Mean (log mg/L)	-0.88	•	-0,686	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886	-0.886		
Stormflow Total Phosphorus Standard Deviation (log mg/L)	0.3				0.31	0.31	0.31	0.31		0.31	0,31		
Stormflow Total Phosphorus Standard Deviation (log mg/c)	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Sto
Stormflow Total Phosphorus Serial Correlation		0 0		0		0	0	0		0		(	
Stormflow Total Prosproits Senar Conteautor	0.30	•	0.301	·•	-	0.301	0.301	0.301	0.301				
	0.30				0.23	0.23		0.23	0.23	0.23	0.23		
Stormflow Total Nitrogen Standard Deviation (log_mg/L)	Stochastic 0.2	Stochastic 0.23	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Sto
Stormflow Total Nitrogen Estimation Method		0 0			-	0	0	0	0	0	0		-
Stormflow Total Nitrogen Serial Correlation	-1	•	· · · · ·	•	•		-10	-10	-10	-10			
Baseflow Total Suspended Solids Mean (log mg/L)					0.34					0.34	0.34	0.34	
Baseflow Total Suspended Solids Standard Deviation (log mg/L)	0.3				Stochastic 0.34	Slochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Slochastic	Sic
Baseflow Total Suspended Solids Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic 0			000010300		0	0	0		0
Baseflow Total Suspended Solids Serial Correlation		0 0		· ·		-10			-10	-10	-10	-10	<u>ال</u>
Baseflow Total Phosphorus Mean (log mg/L)		10 -10			0.31				0.31	0.31	0.31	0.3	
Baseflow Total Phosphorus Standard Deviation (log mg/L)	0.3						Stochaslic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Sto
Baseflow Total Phosphorus Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	0	<u> </u>			0	) (	0
Baseflow Total Phosphorus Serial Correlation		0 (	0 0	·•							-10	-10	õ
Baseflow Total Nitrogen Mean (log mg/L)		10 -10	-								0.2	0.3	2
Baseflow Total Nitrogen Standard Deviation (log mg/L)	0.							Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Sto
Baseflow Total Nitrogen Estimation Method	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic	Stochastic		0100110300	0.000	) (	0
Baseflow Total Nitrogen Serial Correlation		0 0		·			-	15.7	5.56	4.54		1	2
OUT - Mean Annual Flow (ML/yr)	1.5				12.5							35	4
OUT - TSS Mean Annual Load (kg/yr)	48.	.1 59.7			369				0.917		0,498		
OUT - TP Mean Annual Load (kg/yr)	0.26				2.08								
OUT - TN Mean Annual Load (kg/yr)	3.6	31 4.74	4 17,1	4.11	28.8	11.2	32.9						
OUT - Gross Pollutant Mean Annual Load (kg/yr)										1 IUF			
1001 - Gross Folkularit Micali Aurikai Evan (kyryr)	36.	.6 47.9	9 174	41.8	294	114	330						
Rain in (ML/yr)		.6 47.9	9 174	41.8 2.403	294	114 6.57022	330 18.9908	21.1707	7.51316	6.13423	4.04555	16.161	9
Rain in (ML/yr)	36.	.6 47.9 6 2.75787	9 174 7 9.98714	41.8	294	114	330 18.9908	21.1707 5.48988	7.51310			16.161	9
Rain in (ML/yr) ET Loss (ML/yr)	36. 2.1089 0.54688	.6 47.9 6 2.75787	9 174 7 9.98714 9 2.58982	41.8	294	114 6.57022	330 18.9908	21.1707	7.51310	6.13423	4.04555	16.161	9
Rain in (ML/yr) ET Loss (ML/yr) Deep Seepage Loss (ML/yr)	36. 2.1089 0.54688	.6 47.9 96 2.75787 96 0.715159	9 174 7 9.98714 9 2.56982 0 (	41.8 2.403 2 0.623135 0 0	294	114 6.57022 1.70376	330 18.9908 4.9246 0 0	21.1707 5.48988	7.51316 1.94828 0	6.13423 1.5907 0	4.04555	5 16.161 7 4.1910 0	9 13 0
Rain in (ML/yr) ET Loss (ML/yr) Deep Seepage Loss (ML/yr) Basellow Out (ML/yr)	36. 2.1089 0.54688	6 47.9 6 2.75787 36 0.715159 0 0 0	9 174 7 9.98714 9 2.58982 0 (0)	41.8 2.403 2 0.623135 0 0 0 0	294 16.9122 4.3856	114 6.57022 1.70376	330 18.9908 4.9246 0 0	21.1707 5.48988	7.51310	6.13423 1.5907 0	4.04555	5 16.161 7 4.1910 0	9 13 0
Rain In (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Baseflow Out (ML/yr)           Imp. Stormflow Out (ML/yr)	36. 2.1089 0.54688	6 47.9 6 2.75787 36 0.715159 0 0 0	9 174 7 9.98714 9 2.58982 0 (0)	41.8 2.403 2 0.623135 0 0 0 0	294 16.9122 4.3856 0 0	114 6.57022 1.70376 0	330 18.9908 4.9246 0 0 14.0662 0 0	21.1707 5.48988 00 15.6808	7.51316 1.94828 0 0 5.56489	6.13423 1.5907 0 0 4.54354 0	4.04553	16.161 4.1910 0 3 11.970	9
Rain In (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Basellow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)	36. 2.1089 0.54688 1.5620	6         47.9           36         2.75787           36         0.715159           0        0           0        0           0        0           07         2.04271           0        0	9 174 7 9.98714 9 2.58982 0 C 0 C 1 7.39732 0 C	41.8 2.403 2.0.623135 0 0 0 0 1.77986 0 0 0 0 0 0 0 0 0 0 0 0 0	294 16.9122 4.3856 0 0	114 6.57022 1.70376 0 0 4.86646	330 18.9908 4.9246 0 0 14.0662 0 0	21.1707 5.48988 00 15.6808 00 15.6808	7.51316 1.94828 0 5.56489 5.56489	6,13423 1,5907 0 0 4,54354 0 4,54354 0 4,54354	4.04555 1.04907 2.99640 2.99640	16.161           4.1910           11.970           11.970           11.970	9
Rain In (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Basellow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)	36. 2.1089 0.54688 1.5620 1.5620	6         47.9           36         2.75787           36         0.715159           0         0           0         0           0         0           07         2.04271           0         0           0         0           0         0           0         0           07         2.04271	9 174 7 9.98714 9 2.56982 0 C 0 C 1 7.39733 9 C 1 7.39733	41.8 2.403 2.0.623135 0.00 0.00 0.00 0.1.77986 0.00 1.77986	294 16.9122 4.3856 00 00 12.5266 00	114 6.57022 1.70376 0 4.86646 0 4.86646	330 18.9908 4.9246 0 0 14.0662 0 14.0662 0 14.0662	21.1707 5.48988 00 15.6808	7.51316 1.94828 0 5.56489 5.56489	6,13423 1,5907 0 0 4,54354 0 4,54354 0 4,54354	4.04555 1.04907 2.99640 2.99640	16.161           4.1910           11.970           11.970           11.970	9 13 0 0 9 9 0
Rain In (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Baseflow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Outflow (ML/yr)	36. 2.1089 0.54688 1.5620	6         47.9           36         2.75787           36         0.715159           0         0           0         0           0         0           07         2.04271           0         0           0         0           0         0           0         0           07         2.04271	174           7         9.98714           9         2.56982           0         00           0         00           0         00           0         00           1         7.39733           1         7.39733	41.8 2.403 2.0.623135 0.000 0.00 0.00 0.00 0.0000 0.0000 0.0000 0.000 0.000 0.0000 0.0000 00	294 16.9122 4.3856 0 0 12.5266 0 0 12.5266	114 6.57022 1.70376 0 4.86646 4.86646 4.86646	330 18.9908 4.9246 0 14.0662 14.0662 14.0662	21.1707 5.48988 00 15.6808 00 15.6808	7.51316 1.94828 0 5.56489 5.56489 5.56489 5.56489	6,13423 1,5907 0 0 4,54354 0 4,54354 0 4,54354	4.04555 1.04900 2.99640 2.99640 2.99640 2.99640 2.99640	16.161           4.1910           0           11.970           3           11.970           3           11.970           3           11.970	9
Rain in (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Baseflow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Outflow (ML/yr)           Change in Soil Storage (ML/yr)	36. 2.1089 0.54688 1.5620 1.5620	6         47.9           96         2.75783           96         0.715155           0        0           0        0           07         2.04271           07         2.04271           07         2.04271           07         2.04271           07         2.04271	9 174 7 9.98714 9 2.56986 0 0 0 1 7.39733 0 0 0 1 7.39733 1 7.39733 0 0 0	41.8 2.403 0.623135 0 0 0 0 1.77986 1.77986 1.77986 0 0 0 0 0 0 0 0 0 0 0 0 0	294 16.9122 4.3856 0 0 12.5266 0 12.5266 12.5266 12.5266	114 6.57022 1.70376 0 0 4.86646 4.86646 4.86646 4.86646 0 0	330 18,9908 4,9246 0 14,0662 14,0662 14,0662 0 14,0662 0 0	21.1707 5.48986 0 15.6806 15.6806 15.6806 15.6806 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7.51316 1.94828 0 0 5.56486 5.56486 5.56486 0 0 0 0 0 0 0 0 0 0 0 0 0	6,13423 1,5907 0 4,54354 4,54354 4,54354 4,64354 0 0 0 0 0 0 0 0	4.04555 1.04907 2.99646 2.99646 2.99646 2.99646 0 0 0 0 0 0 0 0 0 0 0 0 0	16.161           7         4.1910           0         11.970           3         11.970           3         11.970           3         11.970           3         11.970	9 3 0 0 9 9 9 9 9 9 9 9 9 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0
Rain In (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Basellow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Change in Soll Storage (ML/yr)           TSS Baselfow Out (ML/yr)	36. 2.1089 0.54688 1.5620 1.5620 1.5620	6         47.9           86         2.75787           96         2.75787           96         0.715155           0        0           0        0           07         2.04271           07         2.04271           07         2.04271           07         2.04271           07         2.04271           07         2.04271	9 174 7 9.98714 9 2.58982 0 0 0 1 7.39733 0 0 0 1 7.39733 1 7.39733 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	41.8 2.403 2.0.623135 0 0 0 0 0 0 0 0 0 0 0 0 0	294 16.9122 4.3856 0 0 0 12.5266 12.5266 12.5266 0 0 0 0 0 0 0 0 0 0 0 0 0	114 6.57022 1.70376 0 0 4.86646 4.86646 4.86646 4.86646 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	330 18.9908 4.9246 0 14.0662 14.0662 14.0662 0 14.0662 0 0 0	21.1707 5.48986 0 0 15.6806 15.6806 15.6806 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7.51316 1.94828 0.0 5.56485 5.56485 5.56485 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6,13423 1,5907 0 4,54354 4,54354 4,54354 4,54354 0 0 140.032	4.04555 1.04907 2.99646 2.99646 2.99646 2.99646 0 0 0 0 0 0 0 0 0 0 0 0 0	16.161           7         4.1910           0         11.970           3         11.970           3         11.970           3         11.970           3         11.970           3         11.970           3         3.53.54	9 0 0 9 9 9 9 9 9 9 9 0 9 0 9 0 9 0 19 19 19 19 19 19 19 19 19 19
Rain In (ML/yr)         ET Loss (ML/yr)         Deep Seepage Loss (ML/yr)         Basellow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Perv. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Outflow (ML/yr)         Change in Soil Storage (ML/yr)         TSS Baseflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)	36. 2.1089 0.54688 1.5620 1.5620 1.5620 1.5620	6         47.9           76         2.75787           76         2.75787           76         0.715159           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	174           7         9.98714           2         2.58987           0         0           0         0           0         0           0         0           0         0           0         0           1         7.39733           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	41.8 2.403 0.623135 0.00 0 0 0 1.77986 1.77986 1.77986 1.77986 1.77986 0 0 0 0 0 0 0 0 0 0 0 0 0	294 16.9122 4.3856 0 0 12.5266 12.5266 12.5266 0 0 0 0 0 0 0 0 0 0 0 0 0	114 6.57022 1.70376 0 4.86646 0 4.86646 4.86646 4.86646 0 0 0 146.059	330 18.9908 4.9246 0 0 14.0662 14.0662 14.0662 14.0662 0 0 0 412.754		7.51316 1.94826 0.0 5.56495 5.56495 5.56495 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	6,13423 1,5907 0 4,54354 4,54354 4,54354 4,54354 0 0 140.032	4.04555 1.04907 2.99646 2.99646 2.99646 2.99646 0 0 0 0 0 0 0 0 0 0 0 0 0	16.161           7         4.1910           0         11.970           3         11.970           3         11.970           3         11.970           3         11.970           3         11.970           3         3.53.54	9 0 0 9 9 9 9 9 9 9 9 0 9 0 9 0 9 0 19 19 19 19 19 19 19 19 19 19
Rain In (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Baseflow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Outflow (ML/yr)           TSS Total Stormflow Out (ML/yr)           TSS Total Stormflow Out (ML/yr)           TSS Total Outflow (ML/yr)	36. 2.1089 0.54688 1.5620 1.5620 1.5620	6         47.9           96         2.75787           96         2.75787           96         0.715159           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	174           7         9.98714           2         2.58987           0         0           0         0           0         0           0         0           0         0           1         7.39733           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	41.8 2.403 0.623135 0.00 0 0 0 1.77986 1.77986 1.77986 1.77986 0 0 0 0 0 0 0 0 0 0 0 0 0	294 16.9122 4.3856 0 0 0 12.5266 12.5266 12.5266 0 0 0 0 0 0 0 0 0 0 0 0 0	114 6.57022 1.70376 0 0 4.86646 4.86646 4.86646 4.86646 0 0 1.486646 1.000 1.48659 1.146.059 1.46.059	330 18.9908 4.9246 0 0 14.0662 14.0662 14.0662 14.0662 0 0 412.754 412.754		7,51316 1,94822 0 5,56486 5,56486 5,56486 0 162,656 162,656	6,13423 1,5907 0 0 4,54354 0 4,54354 0 4,54354 0 0 1,54354 0 0 1,54354 0 0 1,54354 0 0 1,54354 0 0 0 0 0 0 0 0 0 0 0 0 0	4.04555 1.04900 2.99640 2.99640 2.99640 2.99640 0 0 0 0 0 0 0 0 0 0 0 0 0	16.161           4.1910           0           11.970           3           11.970           3           11.970           2           353.54           2           353.54	9 3 0 0 9 9 9 9 0 9 9 0 0 0 0 9 9 0 0 0 0
Rain In (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Baseflow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Outflow (ML/yr)           Change In Soll Storage (ML/yr)           TSS Baseflow Out (ML/yr)           TSS Total Stormflow Out (ML/yr)           TSS Total Stormflow Out (ML/yr)           TP Baseflow Out (ML/yr)           TP Baseflow Out (ML/yr)	36. 2.1089 0.54688 1.5620 1.5620 1.5620 48.080 48.080	6         47.9           76         2.75787           76         2.75787           76         0.715155           0         0           0         0           07         2.04271           77         2.04271           77         2.04271           70         2.04271           70         2.04271           70         2.04271           70         2.04271           70         2.04271           70         2.04271           90         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0	9         174           7         9.98714           9         2.56987           9         2.56987           9         2.56987           9         0           0         0           1         7.39733           1         7.39733           1         7.39733           0         0           0         0           0         0           0         0           0         0           0         0           0         0           5         213.211           0         0	41.8 2.403 0.623135 0 0 0 0 0 1.77986 1	294 16.9122 4.3856 0 0 12.5266 12.5266 12.5266 12.5266 0 0 0 0 369 212 369 212 0 0 0 0 0 0 0 0 0 0 0 0 0	114 6.57022 1.70376 0 0 4.86646 4.86646 4.86646 4.86646 0 0 146.059 146.059 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	330 18,9908 4,9246 0 0 14,0662 14,0662 14,0662 0 0 0 0 412,754 412,754 0 0 0 0 0 0 0 0 0 0 0 0 0	21.1707 5.46986 0 15.6806 15.6806 15.6806 0 15.6806 0 0 0 472.455 472.455	7,51316 1,94822 0 5,56489 5,56489 5,56489 5,56489 0 162,656 162,656 0 162,656	6,13423 1,5907 0 0 4,54354 4,54354 4,54354 4,54354 0 0 140.032 140.032 0,757078	4.04555 1.04900 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 0.0000 0.00000 0.00000 0.00000	16.161           7         4.1910           0         11.970           3         11.970           3         11.970           3         11.970           2         353.54           2         353.54           2         353.54           0         1.9	9 3 0 9 9 9 9 9 9 9 9 9 0 9 9 0 9 9 0 9 9 0 9 0 9 0 9 0 0 9 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0
Rain In (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Basellow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Change in Soil Storage (ML/yr)           TSS Basellow Out (ML/yr)           TSS Total Stormflow Out (ML/yr)           TSS Total Stormflow Out (ML/yr)           TSS Total Stormflow Out (ML/yr)           TP Basellow Out (ML/yr)           TP Basellow Out (ML/yr)           TP Total Stormflow Out (ML/yr)	36. 2.1089 0.54688 1.5620 1.5620 1.5620 48.080 48.080 0.26335	6         47.9           66         2.75787           366         0.715159           0         0           0	a)         174           7         9.98714           9         2.58987           0)         0	41.8 2.403 2.0.623135 0.0 0.0 1.77986 0.0 0.0 1.77986 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	294 16.9122 4.3856 0 0 12.5266 12.5266 12.5266 12.5266 12.5266 12.5266 12.5266 12.5266 12.5266 12.5266 0 0 0 12.5266 12.5266 0 0 0 12.5266 12.5266 0 0 0 12.5266 0 0 0 12.5266 12.5266 0 0 0 0 12.5266 0 0 0 0 12.5266 0 0 0 0 12.5266 0 0 0 0 12.5266 0 0 0 0 12.5266 0 0 0 0 0 0 12.5266 0 0 0 0 0 0 0 0 0 0 0 0 0	114 6.57022 1.70376 0 0 4.86646 4.86646 4.86646 4.86646 0 0 146.059 146.059 0 0 0.802396	330 18.9908 4.9246 0 0 14.0662 14.0662 14.0662 14.0662 0 0 412.754 412.754 412.754 0 0 0 2.365	21.1707 5.48988 0 0 0 0 0 15.6808 15.6808 0 0 0 0 472.455 472.455 0 0 2.61306	7.51316 1.94822 0 0 0 0 0 0 0 0 0 0 0 0 0	6 13423 1.5907 0 0 4.54354 0 4.54354 4.54354 0 1.54354 0 0 1.5032 0 0 0 0 0 0 0 0 0 0 0 0 0	4.04555 1.04900 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 0.0000 0.00000 0.00000 0.00000	16.161           7         4.1910           0         11.970           3         11.970           3         11.970           3         11.970           2         353.54           2         353.54           2         353.54           0         1.9	9 3 0 9 9 9 9 9 9 0 9 9 0 9 0 9 0 9 0 19 0 19 0 0 19 0 0 19 0 0 19 0 0 19 0 0 19 0 0 19 0 0 19 0 0 19 0 0 0 19 0 0 19 0 0 0 0 0 0 0 0 0 0 0 0 0
Rain In (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Baseflow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Storage (ML/yr)           TSS Baseflow Out (ML/yr)           TSS Total Stormflow Out (ML/yr)           TSS Total Outflow (ML/yr)           TP Baseflow Out (ML/yr)           TP Total Stomflow Out (ML/yr)	36. 2.1089 0.54688 1.5620 1.5620 1.5620 48.080 48.080	6         47.9           76         2.75787           76         2.75787           76         0.715159           0         0      0         <	0         174           7         9.98714           2         2.58987           0         2.58987           0         0           0         0           1         7.39733           0         0           1         7.39733           0         0           0         0           1         7.39733           0         0           0         0           0         0           1         7.39733           0         0           1         7.39733           0         0           0         0           1         7.39733           0         0           0         0           1         2.13.211           0         1.22693           0         1.22693	41.8 2.403 2.0.623135 0.00 0.00 1.77986 1.7000021 1.7000021 1.77986	294 16.9122 4.3856 0 0 12.5266 12.5266 12.5266 12.5266 0 0 0 0 369 212 369 212 0 0 0 0 0 0 0 0 0 0 0 0 0	114 6.57022 1.70376 0 0 4.86646 4.86646 4.86646 4.86646 0 0 146.059 146.059 0 0.802396 0.802396	330 18.9908 4.9246 0 0 14.0662 14.0662 14.0662 0 14.0662 0 0 412.754 412.754 412.754 0 0 2.365 2.365	21.1707 5.48988 0 0 0 0 0 15.6808 15.6808 0 0 0 0 472.455 472.455 0 0 2.61306	7.51316 1.94822 0 0 0 0 0 0 0 0 0 0 0 0 0	6 13423 1.5907 0 0 4.54354 0 4.54354 4.54354 0 1.54354 0 0 1.5032 0 0 0 0 0 0 0 0 0 0 0 0 0	4.04555 1.04900 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 0.0000 0.00000 0.00000 0.00000 0.00000	$\begin{array}{c c} & 16.161\\ \hline & 4.1910\\ \hline \\ 0 \\ \hline 0 \\ 0 \\$	9 0 0 9 9 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0
Rain in (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Baseflow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Outflow (ML/yr)           TSS Baseflow Out (ML/yr)           TSS Total Stormflow Out (ML/yr)           TSS Total Outflow (ML/yr)           TP Baseflow Out (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Outflow (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Outflow (ML/yr)	36. 2.1069 0.54688 1.5620 1.5620 1.5620 1.5620 48.080 48.080 48.080 0.26335 0.26335	6         47.9           66         2.75787           96         2.75787           96         0.715159           0         0	0         174           7         9.98714           2         2.58987           0         0           0         0           0         0           1         7.39733           1         7.39733           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         1.22693           0         1.22693           0         0	41.8 2.403 2.0.623135 0.00 0 0 1.77986 1.77986 1.77986 1.77986 0 0 0 0 0 0 0 0 0 0 0 0 0	294 16.9122 4.3856 0 0 12.5266 12.5266 12.5266 12.5266 0 0 0 0 0 0 0 0 0 0 0 0 0	114 6.57022 1.70376 0 0 4.86646 4.86646 4.86646 4.86646 0 0 146.059 146.059 0.802396 0.802396 0.802396	330 18.9908 4.9246 0 0 14.0662 14.0662 14.0662 14.0662 0 0 412.754 412.754 0 2.365 2.365 0 0 0 0 0 0 0 0 0 0 0 0 0	21.1707 5.48986 0 0 15.6806 15.6806 15.6806 15.6806 15.6806 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,51316 1,94822 0 0 5,56485 5,56485 5,56485 0 0 162,655 162,655 0 0,917366 0,917366 0,917366	6,13423 1,5907 0 0 0 4,54354 4,54354 4,54354 4,54354 0 0 0 140.032 140.032 0 0,757078 0,757078	4.04555 1.04900 2.99640 2.99640 2.99640 2.99640 2.99640 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9 0 9 0 9 0 9 0 0 9 0 0 9 0 0 9 0 0 0 9 0 0 0 9 0 0 0 9 0 0 0 9 0 0 9 0 0 0 9 0 0 0 9 0 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0
Rain in (ML/yr)         ET Loss (ML/yr)         Deep Seepage Loss (ML/yr)         Baseflow Out (ML/yr)         Imp. Stormflow Out (ML/yr)         Perv. Stormflow Out (ML/yr)         Total Stormflow Out (ML/yr)         Total Outflow (ML/yr)         Total Outflow (ML/yr)         TS Baseflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TSS Total Stormflow Out (ML/yr)         TP Total Stormflow Out (ML/yr)         TN Baseflow Out (ML/yr)         TN Total Stormflow Out (ML/yr)         TN Total Stormflow Out (ML/yr)         TN Total Stormflow Out (ML/yr)	36. 2.1089 0.54688 1.5620 1.5620 1.5620 1.5620 48.080 48.080 0.26335 0.26335 0.26335	6         47.9           76         2.75787           76         2.75787           76         0.715155           0         0	9         174           7         9.98714           9         2.56967           0         0           0         0           1         7.39733           1         7.39733           1         7.39733           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         0           0         1.22693           0         0           0         0           0         0           0         0	41.8 2.403 0.623135 0.0 0 0 0 1.77986 1.77986 1.77986 1.77986 1.77986 1.77986 1.77986 1.77986 1.77986 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	294 16.9122 4.3856 0 0 12.5266 12.5266 12.5266 12.5266 12.5266 0 0 0 0 0 0 0 0 0 0 0 0 0	114 6.57022 1.70376 0 0 0 4.86646 4.86646 4.86646 4.86646 4.86646 0 0 14.86646 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	330 18.9908 4.9246 00 14.0662 14.0662 14.0662 14.0662 00 412.754 412.754 412.754 412.754 2.365 0 0 32.8679	21.1707 5.48988 0 0 15.6808 15.6808 15.6808 0 0 0 472.455 472.455 472.455 2.61306 2.61306 2.61306 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,51316 1,94822 0 5,56489 5,56489 5,56489 5,56489 0 162,656 162,656 0,917366 0,917366 0,917366 0,917366	6,13423 1,5907 0 0 0 4,54354 4,54354 4,54354 4,54354 0 0 0 140.032 140.032 0 0,757078 0,757078	4.04555 1.04900 2.99640 2.99640 2.99640 2.99640 0 0 0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9 3 0 9 9 9 0 0 9 9 0 0 9 9 0 0 0 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0
Rain in (ML/yr)           ET Loss (ML/yr)           Deep Seepage Loss (ML/yr)           Baseflow Out (ML/yr)           Imp. Stormflow Out (ML/yr)           Perv. Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Stormflow Out (ML/yr)           Total Outflow (ML/yr)           TSS Baseflow Out (ML/yr)           TSS Total Stormflow Out (ML/yr)           TSS Total Outflow (ML/yr)           TP Baseflow Out (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Outflow (ML/yr)           TP Total Stormflow Out (ML/yr)           TP Total Outflow (ML/yr)	36. 2.1069 0.54688 1.5620 1.5620 1.5620 1.5620 48.080 48.080 48.080 0.26335 0.26335	6         47.9           66         2.75787           766         2.75787           766         2.75787           766         0.715159           0         0      0         0           0	a)         174           7         9.98714           2         2.58987           a)         2.58987           b)         0           c)         0 </td <td>41.8 2.403 2.0.623135 3.0.623135 3.0.623135 3.0.623135 0.0.0 0.0.0 3.1.77986 3.</td> <td>294 16.9122 4.3856 0 0 12.5266 12.5266 12.5266 12.5266 12.5266 0 0 0 12.5266 12.5266 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>114 6.57022 1.70376 0 0 4.86646 4.86646 4.86646 4.86646 0 0 146.059 146.059 0 146.059 0 0.802396 0 0.802396 0 0.802396 0 0.802392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.000000000000000000000000000000000</td> <td>330 18.9908 4.9246 0 0 14.0662 14.0662 14.0662 14.0662 0 0 412.754 412.754 412.754 2.365 2.365 0 0 0 32.8679 32.8679</td> <td>21.1707 5.48986 0 0 15.6806 15.6806 15.6806 15.6806 15.6806 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>7,51316 1,94822 0 5,56485 5,56485 5,56485 0 162,656 0,917368 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,9175</td> <td>6 13423 1.5907 0 0 0 4.54354 0 4.54354 4.54354 0 0 140.032 0 0.757078 0.</td> <td>4.04555 1.04900 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 0.00</td> <td><math display="block">\begin{array}{c c} 16.161\\ \hline \\ 16.161\\ \hline \\ 4.1910\\ \hline \\ 0\\ \hline 0\\ \hline \\ 0\\ \hline 0\\ 0\\ \hline 0\\ 0\\ \hline 0\\ \hline 0\\ 0\\ 0\\ \hline 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ </math></td> <td>9 3 0 9 9 9 0 0 9 9 0 0 9 9 0 0 0 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	41.8 2.403 2.0.623135 3.0.623135 3.0.623135 3.0.623135 0.0.0 0.0.0 3.1.77986 3.	294 16.9122 4.3856 0 0 12.5266 12.5266 12.5266 12.5266 12.5266 0 0 0 12.5266 12.5266 0 0 0 0 0 0 0 0 0 0 0 0 0	114 6.57022 1.70376 0 0 4.86646 4.86646 4.86646 4.86646 0 0 146.059 146.059 0 146.059 0 0.802396 0 0.802396 0 0.802396 0 0.802392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.002392 0 0.000000000000000000000000000000000	330 18.9908 4.9246 0 0 14.0662 14.0662 14.0662 14.0662 0 0 412.754 412.754 412.754 2.365 2.365 0 0 0 32.8679 32.8679	21.1707 5.48986 0 0 15.6806 15.6806 15.6806 15.6806 15.6806 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7,51316 1,94822 0 5,56485 5,56485 5,56485 0 162,656 0,917368 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,917568 0,9175	6 13423 1.5907 0 0 0 4.54354 0 4.54354 4.54354 0 0 140.032 0 0.757078 0.	4.04555 1.04900 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 2.99640 0.00	$\begin{array}{c c} 16.161\\ \hline \\ 16.161\\ \hline \\ 4.1910\\ \hline \\ 0\\ \hline 0\\ \hline \\ 0\\ \hline 0\\ 0\\ \hline 0\\ 0\\ \hline 0\\ \hline 0\\ 0\\ 0\\ \hline 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ 0\\ $	9 3 0 9 9 9 0 0 9 9 0 0 9 9 0 0 0 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0

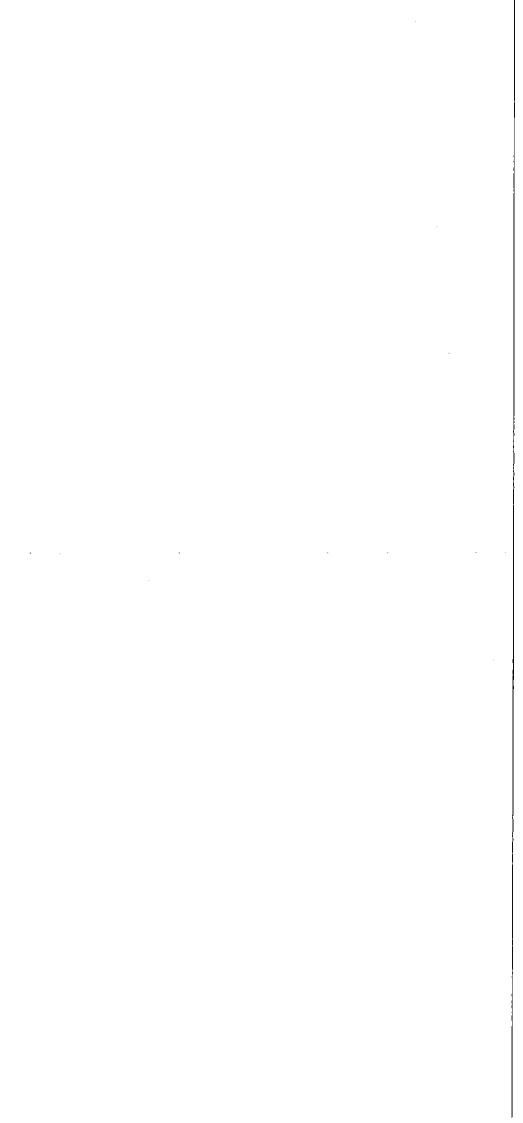
1	Sub-Calch E6 roof
1	133
2	UrbanSourceNode
4	0.513
4	0.513
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ĩ	1
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ю	30
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0	0
)1	1.301
39	0.39
0	Stochastic0
V 36	-0.886
	0.31
31	Stochastic
0	0
71	0.301
23	
-	Stochastic
0	0
10	-10
34	0.34
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31	0.31
_	Stochastic
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12	3.85
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118712 (2001-001 00-00																	en litter and bla		Bio susle 7 - 1/3	Bio swale 22 - V3	Bio-Retention F2 - V3 Bi	o-Retention G1 - V3
USTM treatment nodes	MDB1 - Pond 1	MDB1 - Pond 2	2 Wetland No.3	a Natural Swale	1 Naturel Swale 2	Natural Swale 3	Natural Swale 4	Welland No.1	Wetland No. 5	Welfand No. 6a	Naturel Swale 6 32	Bio-Retention F - V3 33	Bio-Retention E1 (west) - V3	Wetland No.1a	Wetland No. 2 (Pond 1) 34	Welland No. 2 (Pond 4	2) Wetland No.	51 51	52 <u>5</u>	BioRetentionNode	58 BioRetenfonNode Bi	59 icRetentionNode
Node Type	1 WetlandNode		WetfandNode	3	SwaleNode	SwaleNode				WetlandNode		BioRetentionNode	BioRetentionNode	WellandNode	WetlandNode	WetlandNode 0	WetlandNode 0	BioRelentionNoc		0 0		0
Lo-flow bypass rate (cum/sec) Hi-flow bypass rate (cum/sec)	10	0 10	0 10	0		0 0	0	100	10	0 0		100	10	0 10	0 10		100 1	0 1	<u>10</u>	0	100	100
niet pond volume		0	0 (0)	0				<u>0</u> 5955	800	2500	[·	1910	832.	5 331	0 60	1	001 50	x00 12	60	0 1640	2347.5	
Area (sqm) Extended detention depth (m)	352	0 <u>260</u> 5 2	.7 0	4 1	.5 1.	5 0.5	0,6	1	0	4 0.4	12	0,3	0.1	5 0.		4		0.3 0	<u></u>	<u> </u>		
Permanent pool volume (cum)	352	0 702 5 D	20 343 5 0	30 .5				<u>5955</u> 0.5	800 0.3	5 0.5				0.	5 0	.5		0.5	+			
Equivalent pipe diameter (mm)	9	0 12	20 10	0				125	16	2 65			1	8 1		6	8	6	4	4 . 4	5	5
Overflow weir width (m) Notional Detention Time (hrs)	36.	6 35	4 36	.9				45.4		3 44.6				5.5	1 <u>7.9</u> 6 0			3.4 0.6				
Orifice discharge coefficient Weir coefficient	0.	6 <u>0</u>	.6 0	.6				0.0	0,0		<u> </u> ]	1.7	1.	7 1.	71		1.7	1.71	3	7 1.7		3
Number of CSTR cells		5	5	5	10 1	0 10	10	5000	500	5 <u>5000</u>	10	3 1000	100	3 0 500	0 500	5 5	000 50	00 10	00 100	0 1000	1000	1000
Total Suspended Solids k (m/m)	500	0 500 6	0 500 6	0 150 6 :	X0 1500 30 3	0 15000	30	6		5 6	30	12	1	2	8	6 6	6	6	12 1	212		
Total Suspended Solids C** (mg/L)	290	6 0 280	6	6 <u>13</u> 00 120			13.6	6 2800	280	8 <u>8</u> 2800	13.6 12000	500			0 280		800 28 0.09 0	500 5 09 0.	00 50 13: 0.1	0 500	<u>500</u>	0.13
Total Phosphorus k (m/yr) Total Phosphorus C' (my/L)	0.0	9 0.0	0.0	)6 O.1	18 0.1	8 0.18	0.18	0.09	0 <u>.</u> 0	6 0.06	0.18	0.13	0.1	3 0.0	9 <u>0.0</u>	29 9	0.09 00.0	.09			50	50
Total Phosphorus C** (mg/L) Total Nitrogen k (m/yr)	<u>0.0</u> 50	9 0.0 0 50	9 0.0 30 50	09 <u>0.1</u> 00 10				500	50	500	1000	50		0 <u>50</u> 3 0.		<u> </u>	500 0.4	500 0.4	50 <u>50</u>	.3 <u>1.3</u>	1.3	
Total Nitrogen C* (mgA.) Total Nitrogen C* (mgA.)	0.	4 0	4 0	.4 0		7 <u>0.7</u> 7 0.7	0.9	0.4			0.7	1.3		1.	3 1	.3	1.3	1.3				
Threshold hydraulic loading for C** (m/yr)	350	0 350	0 350			D 3500	3500		350	3500	3500			350	0 350						<u></u>	
Horizontal Flow Coefficient Extraction for Re-use	Off	Off	Off	Off	Off	Off	011	Off	Off	011	Off	Off	Olf	041	Off	Off	0ff		011			<u></u>
Annual Re-use Demand - scaled by daily PET (ML)											<u> </u>											
Annual Re-use Demand - scaled by daily PET - Rein (ML) Constant Daily Re-use Demand (kL)														+ -								
Jser-defined Annual Re-use Demand (ML) Percentage of User-defined Annual Re-use Demand Jan			+			<u> </u>	<u> </u>	<u> </u>						1	<u> </u>							
Percentage of User-defined Annual Re-use Demand Feb	<u> </u>												<u> </u>	+			1					
Percentage of User-defined Annual Re-use Demand Mar Percentage of User-defined Annual Re-use Demand Apr				<u> </u>						<u> </u>						+						
Percentage of User-defined Annual Re-use Demand May Percentage of User-defined Annual Re-use Demand Jun							<u> </u>			1				+	·				+	+		
Percentage of User-defined Annual Re-use Demand Jul		1				<u> </u>								<u>+</u>		+			1			
Percentage of User-defined Annual Re-use Demand Aug Percentage of User-defined Annual Re-use Demand Sep							<u> </u>			<u>†                                    </u>					+	- <u> </u>	-1					
Percentage of User-defined Annual Re-use Demand Oct Percentage of User-defined Annual Re-use Demand Nov										+						1					⊢ <b> </b> -	
Percentage of User-defined Annual Re-use Demand Dec		<u> </u>					<u> </u>			<u> </u>			<u> </u>								587	273.5
User-defined Re-use File Filter area (sqm)	<u> </u>	<u> </u>				<u> </u>				<u> </u>		1460	582	.1	-[				ວປ	410		
Filter perimeter (m)										<u> </u>		0.7		.7					0.7	<u>.7 0.7</u>	0.7	
Filter depth (m) Filter median particle diameter (mm)												5		5					00 1	00 100	100	100
Saluraled hydrautic conductivity (mm/hr)					<u> </u>	+	<u> </u>				<u> </u>	0.3	0	3		<u> </u>			0.3 0	0.3	0.3	0.3
Length (m)				0.0	50 82 23 0.02	0 <u>50</u> 3 0.025	0.03			<u> </u>	150											
Base Width (m)				0.0			3				3					+	_		<u> </u>			
Fop width (m) Vegelation height (m)				0.	20 22 25 0.2	0 <u>15</u> 5 02	02		<u> </u>	<u> </u>	0.2			+						+		
Vegetation Type						· · · · ·						·										
Total Nitrogen Content In Filter (mg/kg) Proportion of Organic Material in Filter (%)						·		<u> </u>	·		· ·							-		<u> </u>		
Orthophosphale Conlent In Filter (mg/kg) is Base Lined?		-	-		T																	
s Underdrain Present?	-	-												+								
s Submerged Zone Present? Submerged Zone Depth (m)						<u>+                                     </u>								99 -99	99 -99		9999 -9	9999	-99	99 -9999	-9999	-9999
B for Media Soit Texture Proportion of upstream Impervious area treated	-999	9 -999	99 -99	99:	9999999	9999-	-9999	-9999	-999	9 -999	-9999	-9999								4 4	4	4
Exfitration Rate (mm/h/)		<del>.</del> -	0	0	4	4 4	4	0		<u> </u>	4	4		4 13	0 25	1	1	1				
Evap Loss as proportion of PET		1	-1	1				1						0		<u> </u>			_0	Q	0	
TSS A Coefficient											<u> </u>		<u> </u>									
TSS B Coefficient															+							
TP B Coefficient	-					<u>  ·                                    </u>				<u>+-</u>							_				<u> </u>	
TN B Coefficient						<u> </u>				<u> </u>	<u> </u>											
S*			+				<u> </u>			<u>                                     </u>	<u>                                     </u>				<u>+</u>	<u> </u>						
Sw		1	+			+			<u> </u>					+	1			_		+		
Emax (m/day)		<b>_</b>					[					<u> </u>	<u> </u>					102	52 2	7.5 49.6	102	
Ew (m/day) N - Mean Annual Flow (ML/yr)	24	9 24		23 , 24 24 1.25E+1	55 28	6 166	73.1 4.60E+03	113	64	8 74		<u>6</u> 5.59E+03	3.52E+	3.1 03 5.20E+	94 1 03 9.58E+	68 03 8.61	168 E+03 5.42E	+03 2,39E	+03 2.87E+	03 8.10E+03	6.83E+03	5.70E+03
N - TSS Mean Annual Load (kg/m) N - TP Mean Annual Load (kg/m)	6.10E+0	3 5.24E+0 1 38	1 43E+0		9 39	5 32.3	4.60E+03 15.6	5.73E+03 23	96.	6 10	4 13.5	13.8	1	2.7 19		7.4	35.3 309 0 2.328	21.1	1.21 6	3.8 111	<u>16.8</u> 170	24.0
N - TP Mean Annual Load (kg/yr) N - TN Mean Annual Load (kg/yr) N - Gr <u>o</u> ss Pollutant Mean Annual Load (kg/yr)	33	9 29		78 43	25 33	5 278	145 1.81E+03	201 2,93E+03	79 1.39E+0	4 91		122 1.45E+03				103	0 2.328	+03	321 3	15 <u>1.03E+03</u> 25 44.1	0	120
DUT - Mean Annual Flow (ML\ŋ)	10	8 4 24	u 17 11 49	76 4.21E+	4 26	2 162	71	106	63	9 73	9 100	53.	5	3.6	89	168	166	97.31 E+03	2.6 540 1.46E+	03 3.10E+03	4.58E+03	4.68E+03
OUT - TSS Mean Annual Load (kg/yr) DUT - TP Mean Annual Load (kg/yr)	5.24E+0	3 4.17E+0	3 1.25E+0		03 5,46E+0 0 41	3 5.96E+03 2 31.5	2.89E+03	2.07E+03 13.5	1.49E+0 83		1 15.9	6.0		19 <u>1.9364</u> 19 <u>1</u> 1 5.4 <u>96</u>		5.3	32.3	14.8	.74	4.2 <u>7,5</u> 2.7 78.5	13.6	21.0
OUT - TN Mean Annual Load (kg/yr)	36. 29	8 25	6 61	10 3	39 20	6 264	128	95.8			9 99.4			0	0	0	0	0	01	0 0	i o[	156.764
DUT - Gross Pollulant Mean Annual Load (kg/yr) Flow In (MLAyr)	248.54	0 7 244.10	0	0 254.8	0 286.30	0 0 7 <u>166.23</u>	73.0233	113.369			0 0 7 106.17	62.978	58.10	54 <u>93.90</u> 0 4.984	55 <u>168.</u> 59 0.730	196 16	7.507 103 0141 6.0	15.2	01	0 0	1 <u>ol</u>	
ET Loss (MLAyr)	4.2398	3.1222		71	0	0 0	2.09013	7.15883		2 3.0053	6 0 6.06554	9.94809	4.579	66 4.984	0 0.7304			0 2.64	126 2.531	12 5.45967	5,66382	0.65305
nfiltration Loss (ML/yr) .ow Flow Bypass Out (ML/yr)		0	0	0 10.99	0	0 0	2.09013	0	<u> </u>	0				0	o	0	0		0.	<u>ŏ</u>	0	
figh Flow Bypass Out (MLAyr) Drifice / Filter Out (MLAyr)	75.128	0 148.6	0 142.55	0 56 243.9	0 57 262.04	0 <u>59.7712</u> 5 162.182	70.9742	0 76.7355	267.96			36.325			65 <u>32.9</u>	081 .42	4240 45. 3.821 51.	3232 7.77 9974 4.83	617 9.209 562 15.74	98 22.7838 17 21.3564	37.2433	42.6718
Neir Out (MLAr)	169.00	5 92.143	354.1		0	0 0	0	29.4384	370.58			16.78	30.14	36 23.82 0	0 134.	012	0	0 4.03	0	0 0		(
Fransfer Function Out (ML/yr)		0	0	0	0	0 0	0		<u> </u>	0				0	0	0	0	0		<u> </u>		
Reuse Requested (ML/m) % Reuse Demand Met		0	0	0	0		0			0	0 0		)	0	0	0	0 52779 5 <u>.8</u>	0 1918 172	501 9.19	0 0	0 0 5.50442	4.2357
6 Reuse Demand Met 6 Load Reduction TSS Flow In (kg/yr)	1.7761	2 <u>1.263</u> 8 5237.9	0 33 1.206 92 14307	4 4.268 5 12450	84 8.4742 2 7659.9	3 <u>-33.5216</u> 1 7503.83	2.80612	6.34697				15.672 5581.3		08 5.261	63 0.387 53 0569		05.15 541	1918 17.2 12.97 238	7.07 2865	359 10.9379 .66 8092.2	6829.89	_
SS Flow In (kg/yr) SS ET Loss (kg/yr)	6101.5	8 <u>5237.</u> 9	0 14307	0	0	0 0	0	5722.39	17475	0 20001.	0 0			0	0	0	0	0 72.1	OI .	0 <u>(</u> 519 167.849	0 0 0	88.718
SS Inflitration Loss (kg/yr)	<b>.</b>	0	0	0 165.8	78 340.73	5 59.1215	32.316	0			0 <u>83.9017</u> 0 0	162.57	79.65	0	0	<u> </u>	0	- 0		0		
SS Low Flow Bypass Out (kg/yr) SS High Flow Bypass Out (kg/yr)		0	0	0	0			0	<u> </u>	o	0 0	340.75	1420	0 510.4	0 376.	0 606 30	0 7.237 280 97.73 269	0 3.936 59.3 98.33 480	0 263 42.70 254 1415	502 232.03 32 2863.2	129.058	99.115
SS Onlice / Friter Out (kg/yr) SS Weir Out (kg/yr)	481.09	4 1039.1 6 3131.9	18 904.54 92 11582		12 5458.4 0	6 <u>5953.41</u> 0 2.19932	2893.74	479.87 1585.85				<u>1691.1</u>	142.0 5 1633	71 1421		2.44	97.73 269	98.33 480 0	254 1415 0	0 2863.2	<u>4447.04</u> 0 0	40/1.7
SS Transfer Function Out (kg/yr)		0	0	0	0					0				0	0	0	0		0	0		
TSS Reuse Supplied (kg/y) TSS Reuse Requested (kg/yr)		0	0	0	0	0 0	0	0	<u> </u>	<u> </u>	0 0			0	0	0	0		0			
ISS % Reuse Demand Mel ISS % Load Reduction	14.14	0	0 12.863	0 32 50.99	0 58 28.7	0 0	0 0	63.9011	14.794	0 5 4.4926	0 0 9 -1.0 <u>9542</u>	63.59	5 49.54	125 62.82	231 10.0	332 12	.7651 44,	8127 77.3	957 49.1	158 61.7 <u>50</u>	32.999	17.9611
oo /a Logo Leganoloji	14.14	20,301	- IZ.000		20.1																	

															The second se	Rejeranter Teak G1	Deinwater Tenk 12	aiowater Tank J1 8	Rainwater Tank I
STM treatment nodes	Bio-Retention G2 - V3	Bio-Retention H - V3 Bio-Re	etention E1 (east) - V3	Bio-swale 23 - V3	io-swale 24 - V3	Wetland No. 6b	Wetland No.3b	Bio-swale 1 - V3	Bio-swale 2 - V3	Bio-Retention J2 - V3	Rainwater Tank B	Rainwaler Tank C F 102	Rahnwater Tank D 104	Reinwaler Tank G2 105	Rainwaler Tank H 10	7 109	Rainwater Tank J2 R	113	11: PainWaterTenkNod
de Type	60 BioRetentionNode	J 64	66 tentionNode	72 BioRetentionNode	74 toRetentionNoda	7 <u>9</u> WetlandNode	WetlandNode	BioRetentionNode	BioRelentionNode	BioRelentionNode	ReinWaterTenkNode	RainWaterTenkNode	RainWaterTankNode	RainWaterTankNode 0	RainWaterTankNode	RainWaterTankNode 0	RainWaterTankNode R		
flow bypass rate (cum/sec)	Depresentation		0	0	0	0	00	10	0	0	100	100	100	100	10	0 100	100	100	10
flow bypass (ale (cum/sec)	100	100		100	100	0	0 0				0	0	0	<u>0</u> 5		5 5	5	5	
ea (sqm)	1995		832.5 0.15	2000	1000	4600	0 5100 0.4	244		0.15	0.2	0.2	02	0.2	0.	2 0.2	02	0.2	
tended delension depth (m)	0.15	0.3	0.13	0.4		3220	3570				109	114		0		0 0	0 2043		
oportion vegetated						0.5	0.5				4000	4200	7500	1304	300	0 <u>1564</u> D 10	10	10	
quivalent pipe diameter (mm) verflow weir width (m)	5	5 5	18	6	6	10	20	l	44	5	1.67E-05	1.51E-05	4.74E-06	1,576-04	2.965-0		6.39E-05	4.89E-06 0.6	<u> </u>
otional Detention Time (hrs)		┼──── ┥───	· ·			42.6	42.0	i			0.6	0.6	0,8		0.	6 0.6 7 1.7	1.7	17	1
/eir coefficient	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1	7 <u>1.7</u> 3 3	<u> </u>	1.7	2	2	2	40	2 2 400	2	2	- 40
umber of CSTR cells	1000	1000	1000	1000	1000	5000	5000	100	0 1000	1000	400	400	400	400	1	2 12	12	12	
blal Suspended Solids C* (mg/L) Dal Suspended Solids C'* (mg/L)	12	2 12 _	<u>12</u>	12		6	<u>6</u> 6	1	212		12	12	12	12		2 <u>12</u> 0 300	300	300	3
otal Phosphorus k (m/yr)	500	500	500		5 <u>00</u> 0.13	2800	2800	50		<u> </u>	300	0.13	0.13	0.13		3 0.13	0.13	0.13	0
otal Phosphorus C' (mgA.)	0.13	0.13	0.13	0.13	0.13	0.09	0.09				0.13	0.13	0.13	0.13	0.1	0 40	40	40	
otal Nirogen k (m/y)	50	50	50		50	500	0 <u>500</u> 1 0.4	) <u>5</u>	0 50 3 1.3	1.3	1.4	14	1.4	<u> </u>				<u> </u>	
otal Nitrogen C* (mg/L)	1.3	<u> </u>	1,3	1.3		1.3	1.3				1.4	1.4	3500	3500			3500	3500	35
nreshold hydraulic loading for C** (m/yr) orizontal Flow Coefficient						3500	3500							<u></u>			On (	On	On
draction for Re-use	Ölf	011 011		Off	ж	Off	Olf	Off	Off	Off	On	0.834	1,476	0.25476	0.5867	2 0.30552	0.399	1.44353	0.347
nnual Re-use Demand - scaled by daily PET (ML) nnual Re-use Demand - scaled by daily PET - Rain (ML)	<u> </u>										-9999	-9999	-9999	_9999	-999		1.666	6.098	1.4
onslant Daily Re-use Demand (kL)									<u> </u>			0	0	0		0 ( 3 8,3333333333	6.333333333	8.333333333	8.3333333
ser-defined Annual Re-use Demand (ML) ercentage of User-defined Annual Re-use Demand Jan	<u>+-</u>			<u> </u>				<u> </u>	<u> </u>		8.3333333333 8.333333333333333333333333	8.333333333 8.3333333333	8.333333333 8.333333333	B.3333333333 B.333333333333333333333333	0.3333333	8.333333333	8.3333333333	8,3333333333	8.3333333
ercenlage of User-defined Annual Re-use Demand Feb	-										8,333333333	8.333333333	8.33333333333	8.3333333333333333333333333333333333333	B,33333333 8,33333333	3 8.333333333 3 8.3333333333	8.333333333 8.333333333333333	8.333333333 8.3333333333333333333333333	6.3333333
ercentage of User-defined Annual Re-use Demand Mar ercentage of User-defined Annual Re-use Demand Apr							<u> </u>	<b></b>		<u> </u>	8.333333333 8.3333333333	8.3333333333	8.3333333333 8.333333333333333333333333	8.3333333333	8.33333333	B.3333333333	6.33333333333	8.333333333 8.3333333333333333333333333	8.3333333 8.33333333
ercenlage of User-defined Annual Re-use Demand May ercentage of User-defined Annual Re-use Demand Jun	+										8,33333333		8.333333333 8.3333333333	8.333333333 8.33333333333	8,3333333	8.333333333	6.333333333	8.333333333	8.3333333
ercentage of User-defined Annual Re-use Demand Jul	· · · ·	<u> </u>								<u> </u>	8.333333333 8.333333333	8.333333333	B.333333333	8,333333333	8.33333333 8.33333333	8.333333333	8.3333333333	8.333333333 8.333333333333333	8.3333333 8.33333333
ercentage of User-defined Annual Re-use Demand Aug ercentage of User-defined Annual Re-use Demand Sep	<u> </u>						<u> </u>				B.333333333 8.333333333	8.333333333 8.3333333333333333333333333	8.333333333 8.3333333333	8.3333333333 8.333333333333333333333333	8.3333333	8.333333333	8.3333333333	8.3333333333	<u>8.3333333</u> 8.33333333
ercentage of User-defined Annual Re-use Demand Oct						<u> </u>	+		<u> </u>		8.33333333		<u>5.333333333</u>	8.333333333	8.33333333	8.3333333333	6.3333333333	8.3333333333	0.03333333
ercentage of User-defined Annual Re-use Demand Nov ercentage of User-defined Annual Re-use Demand Dec											<u> </u>								
ser-defined Re-use File	498.7	7 543.7	582.7	500	250	_	+	81	4 606	450						4			
iter perimeter (m)		040.7			0.7				7 0.7	0.5	<u> </u>	<u> </u>							·
itter depth (m) itter median particle diameter (mm)	0.7	7 <u>0.7</u> 5 5	0.7	0.7	5				5 5	5					<u></u>				
aturated hydraulic conductivity (mm/hr)	100	100	100	100	<u>100</u> 03			10	0 <u>100</u> 3 0.3	0.3					<u> </u>				<u> </u>
folization Media Porosity	0.3	0.3	<u></u>	0.3	0.3			<u> </u>			<u> </u>	<u>↓</u>							
ed stopease Width (m)								<u> </u>	<u> </u>						╄────	<u>+</u>			
op widih (m)			·							<u> </u>	+	+					<u> </u>		┝────
/egelation helght (m) /egelation Type		<b>├</b> ─── <b>├</b> ──													<u> </u>				
otal Nitrogen Content in Fitter (mg/kg)							<u> </u>	<u> </u>			<u> </u>								<b>├──</b> ──
roportion of Organic Material In Filter (%) hthophosphate Content in Filter (mg/kg)											<u> </u>		<u> </u>	<u> </u>					
s Base Lined?								·	<u>+</u> —	<u> </u>							+		<u> </u>
s Underdrain Present?										<u> </u>	-999	-9999	-9999	-9999	9 -99	99 -999	9 -9999		
ubmerged Zone Depth (m)	-9999	-9999	-9999	-9999	-9999	-9999	9999	-995	-9999	-9999				<u> </u>	<u></u>	0	0 0	0	
roportion of upstream impervious area treated									4 4		4				0	0	0 0	0	┟──────────
xtitiration Rate (mm/hr)	4	4	4	3.5			i	i					<u>├──</u> ── ─						
epth in metres below the drain pipe		0	0	0	0		┣──	+									<u>                                     </u>		
SS A Coefficient											[	<u> </u>							<u> </u>
P A Coefficient P B Coefficient		<u> </u>					<u> </u>						·			_ <del></del>			
N A Coefficient								<u> </u>	+	<u>                                      </u>		<u> </u>	<u>                                     </u>		1			<u> </u>	<u> </u>
N B Coefficient		<u>├</u>																	
							<u> </u>	<u> </u>							Ţ	<u> </u>	┼────		<u> </u>
n							<u> </u>				<u>+</u>						6 2.04		,,
max (m/day) w (m/day)						<u> </u>					4		220	39.	2 9	3 <u>1.5</u> 3.2 <u>48</u>	1 59.7	213	• 9 9
I - Mean Annual Flow (MLAτ)	164		53 1.06E+04	44.9 9.28E+03	12.1	730 1.91E+0	9 49 4 1.25E+0	7 18 4 2.43E+	.8 18.1 )3 2.33E+03	1 7.4 3 1.17E+0	3 0.69	7 0.702	1.20	0.2	2 0.5	000 0.20 6.6 3.6	0.339	17.1	
I - TSS Mean Annual Load (kg/m) I - ΤΡ Mean Annual Load (kg/m)	5,37E+03 24.4	13.6	16.4	14.1	3.2	10	1 7	3 3.	3.71	2.05	5 9.4	3 9.82 2 100	17	30	7 7	0.51 38	.6 47.9	174	5 6
- TN Mean Annual Load (kg/yr) - Gross Pollutani Mean Annual Load (kg/yr)	236	5 144	120 1.36E+03	103 1.14E+03	25.4	88	9 <u>61</u>	0 35	26 121	2 <u>16.0</u> 1 15	7 2.6	8 2.79	4.9	0.85	2 <u>1</u> 7 5	.96 1.0 0.7 29	1.33 4 36.4	135	
UT - Mean Annual Flow (MLAr)	156	6 91.6	48.6	40.2	10.5	73		0 13	.1 13.3	3 5.96	6 73 2 0.44	9 0.451	0.83	0.13	18 0.3	0.10	6 0.215	0.795	
UT - TSS Mean Annual Load (kg/yr)	4.09E+03 20.5		4.77E+03	2.06E+03 5.81	1.07	1.81E+0 94	8 68.	4 1	38 2.14	4 0.758	8 6.1			<u></u>		0	0 0		
UT - TN Mean Annual Load (kg/yr) UT - TN Mean Annual Load (kg/yr) UT - Gross Pollutani Mean Annual Load (kg/yr)	203	122	89,4	65.3	14.2	86	0 58		22.3		0 4.100	<u> </u>	7,5698	1.3065	3.004	1.562	2.04286	7.3977	1.77
UT - Gross Pollutani Mean <u>Annual Load (kg</u> λγι) ow in (MLλγι)	164.258	0 0 8 97.0142	52.9735	44.8654	12.1378	738.69		8 18.8	18.10	7 7.4246	2	0			0	0	0 0		<u></u>
T Loss (ML/yr)		0	0 4.39911	4.71371	0	5.532	2 <u>6.1402</u>	5 0 5.728	0 0	0 1.48 <u>14</u> 2	2				0	0		<u>+</u>	it
fifration Loss (ML/yr) w Flow Bypass Out (ML/yr)	8.39408	0	4.33311	0	00030		0		0 (		0 2.67	0 0	3 <u>4.9376</u>	0.85241	1.96	079 1.017	1.3345	4.8280	6 1.16
igh Flow Bypass Out (ML/yr) rifice / Filter Out (ML/yr)	58.3794	0 0	22 4033	27.7834	8.768	171.63		0 1 <u>7.47</u> 2	7.0200	9 5.0611	5	0 0		2	0	0	0 0		1
/etr Out (ML/yr)	99.5811		22.4033 26.2204	12,3996	1.69717	561.38		8 5.66	6.2889	5 <u>0.89510</u>	0 1.424	1.4865	7 2.6320	2 0.45426	56 1.04	156 0.5433 956 0.775		2.5695	7 0.683
ransfer Function Out (MLAr)	0	0 0 ····	0	0	0		0	ŏ	<u> </u>	0	0 1.424 0 2.040 0 69.80	2.1237	5 3.7602 3 69.995	7 0. <u>64846</u> 5 70.050	08 69.9	242 70.09	69,7814	69.831	4 69.7
euse Requested (ML/yr) Reuse Demand Met			0		0			0		0	0 34.71	34.720	9 34.772	1 34.759	34.7	305 34.85			
Reuse Demand Met	5.05146	5.63199	8,21126	10.4366 9275.62	13.7802	0.76819		30.25		e <u>19.77</u> 5 1171.6	7 118.3	0 126.73	226.10	1 <u>39.194</u>	0	0 40.08	0 0		<u>الم</u>
SS Flow in (kg/yr)	5.05146	4603.99	10562.7	0275.62	1259.65	1910 <u>0.</u>	1 12464. 0	0		0	0	0				0		<u></u>	<u></u>
SSETLoss (kg/y1) SSInfiltration Loss (kg/y7)	116.877	7 84.9543	143.414	194.117	39.8517			0 96.44	61 81.568	1 27.817	ol	0 0	<u> </u>	0		0	0 0	135,45	0 6 <u>31</u> .
SS Low Flow Bypass Out (kg/yr) SS High Flow Bypass Out (kg/yr)	0	0 0	0		0		0	ŏ	ŏ	0	0 73.07	79.594	6 144.31	4 23,670	02 56.6	66229.43 0	0 30.3944	)	<u>i</u>
SS Onfice / Fifter Out (kg/yr)	106.041		424.558	318.49 1740.64	61.1917	1087.9	6 923.03 6 10761.	1 90.25 8 736.0	82 83.110 39 849.2		63	0	0	0	0	0 9.635	0 0	60,126	4 11.
SS Weir Out (kg/y) SS Transler Function <u>Out (kg/yr)</u>	3982.03	3268.15 0 0	4343.63	1/40.84	109,631	11035.		0	0	0	0 30.50	5931.998	63.322	7.643	36 22.	0	0 (		<u></u>
SS Reuse Supplied (kg/yr)		<u> </u>	0	0	0			<u>ol</u>			ō	0	0	8 39,60	79 39.1	0	0 0	36.458	0 5 39. 3 0.30
SS Reuse Requested (kg/yr) SS % Reuse Demand Met			0	0	0			0	0	0 6 82.78	0 38.2 38 0.6969	58 37.196 59 0.70248	8 <u>38.172</u> 6 1.283			997 <u>38.76</u> 319 <u>0.263</u> 3	56 0.338689		3 0.30
SS % Load Reduction	23.7846	26.6557	54,8582	77.8006	68.4388	5.1126	5 6.2561	1 65.96	38 59.989	91 02.78	0.0303	0.70210							

USTM treatment nodes	Rainwater Tank F2	Rainwater Tank A3	Rainwater Tank A2	Rainwater Tank A1	Rainwater Tenk A4	Rainwaler Tank E3 R	ainwaler Tank E5	Rainwaler Tank E4	Rainwa <u>ter Tenk E</u> 6
ID Node Type		120	1 122	124	I 126I	128 RainWaterTenkNode R	1301	132	134
Lo-flow bypass rate (curn/sec) Hi-flow bypass rate (curn/sec)	100	0		) 0	0	0 100	0	100	100
Area (sqm)		0		0		0	0	0	0 5
Permanent pool volume (cum)	02	02	02	2 0.2	0.2	02	0.2	0.2	0.2
Proportion vegetaled Egutyalent pipe diameter (num)	12514	0		0 0	0	0 4539	0 2992	0.	0 38 <u>49</u>
Overflow wer width (m) Notional Detention Time (hrs)	1.70E-06	10	10	10		10	10 2,98E-05	10 1.86E-06	10 1.80E-05
Orfice discharge coefficient Weir coefficient	0.6		0.6	0.6	0.6	0.6	0.6	0.6	0.8
Number of CSTR celts Total Suspended Solids k (m/yr)	400	2 2	2	2 2	2	2 400	2 	<u>2</u> 	2
Total Suspended Solids C* (mg/L)	12	12	12	2 12	12	12	12	12	12
Total Suspended Solids C'' (mg/L) Total Phosphorus k (m/n)	12 300 0.13	300	300	300		300	300	300	
Total Phosphorus C* (mg/L) Total Phosphorus C** (mg/L)	0.13	0.13	0.13	0,13	0.13	0.13	0.13	0.13	0.13
Total Nitrogen k (m/y) Total Nitrogen C' (mgA.) Total Nitrogen C' (mgA.)	1.4	1.4	1.4	1,4	1.4		<u>14</u> 14	1.4	1.4
Total Nitrogen C** (mg/L) Threshold hydraulic loading for C** (m/y)	<u>1.4</u> 3500				1.4 3500	3500	3500	3500	3500
Horizontal Flow Coefficient Extraction for Re-use	On	Ōn	On	On		OnO			On0.752
Annual Re-use Demand - scaled by daily PET (ML) Annual Re-use Demand - scaled by daily PET - Rain (ML)	2.445	-9999	-9999	-9999	1.085	0.887	0.58462	2.335	-9999
Constant Daily Re-use Demand (kL) User-defined Annual Re-use Demand (ML)		4.01	C	0	4.587	3.747	2.47	9.869 0	3.177
Percentage of User-defined Annual Re-use Demand Jan Percentage of User-defined Annual Re-use Demand Feb	8.333333333 8.3333333333	8.333333333	8.3333333333	8,3333333333	8.333333333 8.33333333333	8.3333 <u>33333</u> 8.33333333333	8.333 <u>333333</u> 8.3333333333	8,3333333333 8,333333333333333333333333	8,333333333
Percentage of User-defined Annual Re-use Demand Mar Percentage of User-defined Annual Re-use Demand Apr	8.333333333 8.333333333333	8.3333333333	8.333333333	8.333333333	8.3333 <u>3333</u> 8.33333333333	8.333333333 8.3333333333	8.333333333 8.333 <u>3</u> 33333	8.3333333333 8.3333333333	8.33333333333
Percentage of User-defined Annual Re-use Demand May Percentage of User-defined Annual Re-use Demand May	8.3333333333 8.333333333333333333333333	8.3333333333	8.3333333333	8,333333333	8.3333333333333333333333333333333333333	8.333333333 8.3333333333333333333333333	8.333333333 8.3333333333	8.333333333 8.3333333333	8.333333333 8.3333333333333333333333333
Percentage of User-defined Annual Re-use Demand Jul	8.3333333333		0.333333333	8.333333333	8.333333333 8.3333333333333333333333333	8.3333333333 8.333333333333333333333333	8 333333333 8 3333333333333333333333333	8.3333333333 8.3333333333333	
Percentage of User-defined Annual Re-use Demand Aug Percentage of User-defined Annual Re-use Demand Sep	8.3333 <u>3333</u> 8.33333333333	8.333333333	8.3333333333	8,333333333	8.333333333 8.333333333 8.33333333333	8.3333333333 8.33333333333 8.3333333333	8.3333333333 8.333333333333333333333333	8.333333333 8.3333333333333333333333333	8.333333333
Percentage of User-defined Annual Re-use Demand Oct Percentage of User-defined Annual Re-use Demand Nov	8.333333333 8.333333 <u>33</u>		8,333333333 8,3333333333333333333333333	8.3333333333 8.333 <u>3333</u> 33333333333333333333333333333	<u>8.3333333333</u> 8.333333333333	8.3333333333333333333333333333333333333	8.3333333333	8.333333333	B.333333333
Percentage of User-defined Annual Re-use Demand Dec User-defined Re-use File									
Filter perioneter (m)									
Föller deptin (m) Föller median particle diarneter (mm)									
Saturated hydraulic conductivity (mm/tu) Infitration Media Porosity	· ·								
Length (m)				<u> </u>					
Bed slope Base Width (m)		<b></b>							
Top width (m) Vegetation height (m)		·							
Vegetation Type Total Nitrogen Conlent in Fifter (mg/kg)									
Proportion of Organic Malerial in Filter (%) Orthophosphate Content in Filter (mg/kg)									
Is Base Lined? Is Underdrain Present?				· · ·					
Submerged Zone Present? Submerged Zone Depth (m)	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-9999	-999
B for Media Soil Texture Proportion of upstream impervious area treated		-3283						0	
Exfiltration Rate (mm/hr)	- 0	0	0		0	ŏ	0	0	
Evap Loss as proportion of PET Depth in metres below the drain pipe Table 4		<u> </u>		<u> </u>					
TSS A Coefficient TSS B Coefficient				<u> </u>					
TP A Coefficient TP B Coefficient									
TN A Coefficient									
Sfc									
Sw		<u> </u>			<u> </u>				
SII Emax (m/day)		4.87	- 14.1	15.7	5.56	4.54			3.6
Ew (m/dey) IN - Mean Annual Flow (ML/yr)	12.5 369	4.87	413	472	163	140		354	11
IN - TSS Mean Annual Load (kg/m) IN - TP Mean Annual Load (kg/m)	2.08	112	32.9	35,8	0.917	0.757	6.83	27.8	8.
IN - TN Mean Annual Load (kg/yn) IN - Gross Pollutant Mean Annual Load (kg/yr)	294	3.18	9,18	10.2	3.63	107	70.3	7.81	2.5
OUT - Mean Annual Flow (ML/yr) OUT - TSS Mean Annual Load (kg/yr)	234	89.3 0.522	256	301	102 0.591	87.3	53.3 0.316	1.28	0.40
OUT - TP Mean Annual Load (xg/m) OUT - TN Mean Annual Load (xg/m)	18.5	7.28		23.4	8.37	<u>6.68</u> 0	4.43	0	
OUT - Gross Pollutant Mean Annual Load (kg/yl)	12.527	4.8667			5.565 <u>09</u> 0	4.54353	2.99668	11.9718	3.8528
Flow In (ML/yz) ET Loss (ML/yz)		0	0	0	0			0	
Infiltration Loss (MLAyr) Low Flow Bypass Out (MLAyr)	0	0	0		0	0	0	7.81174	2.5129
High Flow Bypass Out (ML/yr) Oritice / Filter Out (ML/yr)	<u>8.17327</u> 0	3.1752	9.17784	0	3.63321 0	2.96529	1.95518	7.011/4	2.0129
Weir Out (MLAn) Transfer Function Out (MLAn)	0 4.3451	0	0 4.88046	5.44535	0	0	0	4.1539	
Reuse Supplied (ML/r) Reuse Requested (ML/r)	6.20785	2.41111	0.97545	7.77747	2.75858	2,25568	1.48626	5.93913 69.9412	69.891
% Reuse Demand Met % Load Reduction	34.7546	34.7565	34,753	34.7452	34.7142	34,7359	34.7554	34.7488	
TSS Flow in (kg/yr)	309.213	0	412.755	0	0	0	0	0	
TSS ET Loss (kg/y) TSS Infiltration Loss (kg/y)	0	0		0	0	0			
TSS Low Flow Bypass Out (kg/yr) TSS High Flow Bypass Out (kg/yr)	234.189	0 89.2646			101.574	87.3413	53.264	225.676	71.046
TSS Orifice / Filter Out (kg/yr) TSS Weir Out (kg/yr)	. 0	0	0	0	0	0	0	0	
TSS Transfer Function Out (kg/yr) TSS Reuse Supplied (kg/yr)	113.382	39.6161 0	101.712	147.115	4 <u>4.2396</u> 0	35.9934	21.1804	106.904	29,118
TSS Reuse Requested (kg/m) TSS Reuse Requested (kg/m) TSS % Reuse Demand Mel	36.5709	38.8845	038,0021		0	0	38.9258	36.1685	38.135
TSS % Reuse Demand Met	2.07748				0.917369	0,757077	0.497936		

Generic treatment nodes	lont	lón-	0.007	lant	000000	1007	lon	1007.07	1000000	1000000	long	lanzia	1000-00		0071-5	lost		0.07.10	LOPT / IA	Toprus
Location	GPT 46	GPT 54	GPT 3 73	GPT 81		GPT 88	GPT_US 3 135	GPT US				9 140								
Node Type	GPTNode	GPTNode	GPTNode	GPTNode		GPTNode	GPTNode	GPTNod				GPTNode	GPTNode	GPTNode		GPTNode	GPTNode	GPTNode	GPTNode	GPTNode
Lo-flow bypass rate (cum/sec) Hi-flow bypass rate (cum/sec)	100	0 (	-	· · · ·	100		· ·	0 (	0 (	0 0					100	0 100		· ·		
Flow Transfer Function														1	ļ ,					
Output (cum/sec)				0	0							0	0	0	0				0	
Input (cum/sec) Output (cum/sec)	10																			
Gross Pollutant Transfer Function									1											
Input (kg/ML) Output (kg/ML)		-		-	0	<u> </u>	· 1 · · · ·		-		· · · · · · · · · · · · · · · · · · ·		<u> </u>					-		
Input (kg/ML)	15	1	5 15	15		15	5 15	5 18	5 18	5 15	1:	5 15	15			5 15	15	5 19	i 15	i 15
Output (kg/ML) Total Nitrogen Transfer Function	15	5 1 <u>5</u>	5 15	15	15	15	5 15	5 18	5 18	5 15	15	5 15	15	15	15	5 15	15	5 15	5 15	i <u>15</u>
Input (mg/L)	C		<u> </u>	·  ·	0	0						-				<u> </u>			-	
Output (mg/L)	49 87222057	<u>'</u>	0 0 7 49 87222057	0 0	100	49.87222057	100	· · · ·			100	0 0	100						-	
Output (mg/L)				48.13932854		46.13932854							87							
Total Phosphorus Transfer Function	0			)		0						o		0	0					
Output (mg/L)	0			0	0	0	0 0											-		0 0
Input (mg/L)				5.014131495 4.107393184		5.014131495 4.107393184					-		7							
Total Suspended Solids Transfer Function	0			1 0								0	0	0						0
Input (mg/L) Output (mg/L)		-		0	0			-								-				0
Input (mg/L)	1002.869437 517.037633	1002.859437			100	1002.669437 517.037633														
Output (mg/L) IN - Mean Annual Flow (ML/yr)	25	i 101	40.2	12.1	91.5	26.4	151	103	51.9	25.6	138	30.4	68	39.8	102	2 57.9	13.7	40,2	37.5	58.2
IN - TSS Mean Annual Load (kg/yr) IN - TP Mean Annual Load (kg/yr)	1.48E+03 4.2				1.73E+04 28			1.91E+04					1.32E+04 20.6		1.78E+04 30.1					
IN - TN Mean Annual Load (kg/yr)	4.2	205	i 65.3	27.5	201	48	341	230	118	58.5	318	68.1	155	90.5	229	) 131	30.5	92.3	84.8	134
IN - Gross Pollutant Mean Annual Load (kg/yr) OUT - Mean Annual Flow (ML/yr)	0	1.202.00			2.38E+03 91.5								1.77E+03 68		2.32E+03 102					
OUT - TSS Mean Annual Load (kg/yr)	752	6.31E+03	1.06E+03	1.26E+03	5.20E+03	907	8.47E+03	5.73E+03	2.96E+03	1.48E+03	7.83E+03	1.75E+03	3.96E+03	2.04E+03	5.35E+03	3.51E+03	666	2.38E+03	1.85E+03	3.07E+03
OUT - TP Mean Annual Load (kg/yr) OUT - TN Mean Annual Load (kg/yr)	3.44	19			19.6 175	3.3					30.9		14.6 135	<u>8.13</u> 78.7	21.1					
OUT - Gross Pollutani Mean Annual Load (kg/yr)		1.20E+0	s c	308	2.38E+03	0	3.94E+03	2.68E+03	1.35E+03	671	3.59E+03	791	1.77E+03	883	2.32E+03	1.50E+03	289	1.04E+03	793	1.31E+03
Flow In (ML/yr) ET Loss (ML/yr)	24.9515		40.1829		91.4236	26.4472	151.049	1	51.6746	1 .	137.848		68.0033	39.8 <u>083</u>		57.9061				+
Infiltration Loss (ML/yr)	0	c	j j	0	ő	0	i õ	<u> </u>		-		· · ·	0	0	0	0 0	0		0	
Low Flow Bypass Out (ML/yr) High Flow Bypass Out (ML/yr)				-	0	0	-	<u>'</u>					0	0				-		
Onfice / Fitter Out (ML/yr)				0	ő	-		-		· ·	0	) Ö		Ŏ	0	0			0	i o
Weir Out (ML/yr) Transfer Function Out (ML/yr)	24.9515		<u> </u>	-	0 91.4236	26_4472	0 0	102.881	51.8748	25.7685	0 137.848	-	0 68.0033	0 39.8083	102.203	· · ·				
Reuse Supplied (ML/yr)	0	0 0		0 0	01.4200	0	0	0	0 0	0 0	0	0	0	0	0	0 0	0	) (	0	0
Reuse Requested (ML/yr) % Reuse Demand Met					0	0	-		-			-		0	0			-		
% Load Reduction	0			0	, o	0	0				0			0	. 0	0	0		0	0
TSS Flow in (kg/yr) TSS ET Loss (kg/yr)	1457.64				17317.2 D	1758.17		19071.9	-	4920.31	26074.7	5821.45	13179.6	6794.74 0	17826.3	11695.7				
TSS Infiltration Loss (kg/yr)	Ő				0	0		-		-	0		0	-	0	0		0	0	
TSS Low Flow Bypass Out (kg/yr) TSS High Flow Bypass Out (kg/yr)	0					0	1-	-		· · · · ·	0		0	0	0					
TSS Onfice / Filler Out (kg/yr)	0			0	0	0	0			Ó	0	· - · ·	0	. 0	0	0				
TSS Weir Out (kg/yr) TSS Transfer Function Out (kg/yr)	751.506	6310.3			5195.29	906.45	8465.98	5721.35	2954.93	1476,06	7822.65		3954.08	2038.41	5348.23	3508.64		2377		
TSS Reuse Supplied (kg/yr)	0		-		0	0	0			0	0		0	0	. 0	0	~		•	
TSS Reuse Requested (kg/yr) TSS % Reuse Demand Met	0				0	0		-				-	0	0	0					<u> </u>
TSS % Load Reduction	48.4435							70.0012												
TP Flow In (kg/yr) TP ET Loss (kg/yr)	4.1957	23,2356	5,81053		27.9418 0	0	0	0	0	8.01079 0	0	0	0	11.6067 0	30.0652 0	0	0	0	0	0
TP Infiltration Loss (kg/yr) TP Low Flow Bypass Out (kg/yr)	0				0	- ·	-	-	-	-	<u> </u>			0	0	<u> </u>				
TP High Flow Bypass Out (kg/yr)	0	( c		0	Ő	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0
TP Orlfice / Filter Out (kg/yr) TP Weir Out (kg/yr)	0				0	- °	-	· ·		0		-	0	00	0	<u> </u>				0
TP Transfer Function Out (kg/yr)	3,43696	19,0322	4.75975	3.19982	-	3.29746	32.9367		11.1723				14.5494	8.12427	<b>`</b>	12.6609	2.69032	8.846	7 26556	
TP Reuse Supplied (kg/yr) TP Reuse Requested (kg/yr)	0			0	0	0		0	0	0	0	0	0	- 0	0	0				0
TP % Reuse Demand Met	0		0	0	Ó	0	0		- O	Ŏ	0	0	0	Ő	Ő	Ŏ	0		0	Ŏ
TP % Load Reduction TN Flow In (kg/yr)	18.0838 42.6759				30.0048 201.058								29.993 154.72						29.9914 84.7517	
TN ET Loss (kg/yr)	0	C	0	0	0	0	0	0	0	0	0	0	0	0.	0	0	0	C	0	0
TN Infiltration Loss (kg/yr) TN Low Flow Bypass Out (kg/yr)	0			-	0	0					0				0	· · ·				0
TN High Flow Bypass Out (kg/yr)	- 0		0	0		0	0	0	1 0	Ö	0	0	0	0		0	0	0	0	
TN Onfice / Filter Out (kg/yr) TN Weir Out (kg/yr)	0	0			0	0									0			0		<u> </u>
TN Transfer Function Out (kg/yr)	39.4817	189.512	60.3843	25.3969	174.924	42.5936	296.385	200.268	102.827	50.8584	276.531	59.1794	134.609	78.645	199.455		26.511	80.2377	73.7293	116.796
TN Reuse Supplied (kg/yr) TN Reuse Requested (kg/yr)	0				0	0				0	0		0		0	0	0			
TN % Reuse Demand Met	0	0	0	0	0	0	0	İ	0	0	0	0	0	0	0	0	0	0	0	0
TN % Load Reduction GP Flow In (kg/yr)	7.48499				12.9975 2382.04	7.48364 0							12 9982 1771 81		13.0052 2318.59				13.0055 792.623	
GP ET Loss (kg/yr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GP Infiliration Loss (kg/yr) GP Low Flow Bypass Out (kg/yr)	0				0	0		0		0	0				0	ľ v				
GP High Flow Bypass Out (kg/yr)	0	0	0	0		0	0	Ö	0	Ŏ	Ó	D	0		0	0	0			
GP Orifice / Filter Out (kg/yr) GP Weir Out (kg/yr)	0			0	0	0		0	0		0 0		0	0	0		0	0	Ö	0
GP Transfer Function Out (kg/yr)	0	1201.12	0	307,986	2382.01	0	3936.19			671.394		791.113	1771.81	882.56	2318.6	1496.85			792.636	<u> </u>
GP Reuse Supplied (kg/yr) GP Reuse Requested (kg/yr)	0	0	Ŏ	0	0		0		Ö	0	0			0	0	Ö	0	0	Ō	D
GP % Reuse Demand Met	0	0	0			0	0								0	0				
GP % Load Reduction	100	100	100	100	100	100	001	100	100	UUF 100	100	100	100	100	100	r. 100	100	1 100	100	



#### Other nodes

Location	OCEAN	Total s-c 4	Ocean	HARBOUR	Junction
ID	10	14	76	87	90
Node Type	ReceivingNode	JunctionNode	JunctionNode	JunctionNode	JunctionNode
IN - Mean Annual Flow (ML/yr)	1.29E+03	45.4	40.2	1.23E+03	54.7
IN - TSS Mean Annual Load (kg/yr)	4.67E+04	3.49E+03	1.06E+03	4.35E+04	3.00E+03
IN - TP Mean Annual Load (kg/yr)	186	8.36	4.76	177	7.57
IN - TN Mean Annual Load (kg/yr)	1.76E+03	79	60.4	1.66E+03	86
IN - Gross Pollutant Mean Annual Load (kg/yr)	3.13E+03	749	0	3.03E+03	96.8
OUT - Mean Annual Flow (ML/yr)	0	45.4	40.2	1.23E+03	54.7
OUT - TSS Mean Annual Load (kg/yr)	0	3.49E+03	1.06E+03	4.35E+04	3.00E+03
OUT - TP Mean Annual Load (kg/yr)	0	8.36	4.76	177	7.57
OUT - TN Mean Annual Load (kg/yr)	0	79	60.4	1.66E+03	86.
OUT - Gross Pollutant Mean Annual Load (kg/yr)	0	749	0	3.03E+03	96.8

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