# Everglades Agricultural Area Regional Feasibility Study

## Deliverable 1.4.2 – Methodology for Development of Daily Total Phosphorus Concentrations (Final Report)

(Contract No. CN040912-WO04 Phase 2)

Prepared for:



South Florida Water Management District (SFWMD) 3301 Gun Club Road West Palm Beach, FL 33406

(561) 686-8800

Prepared by:



#### Burns & McDonnell Engineering Co., Inc.

9400 Ward Parkway Kansas City, Missouri 64114 (816) 822-3099 Under Subcontract to:



11401 S.W. 40<sup>th</sup> Street, Suite 470 Miami, Florida 33165 (305) 551-4608

June 2005



June 30, 2005



Mr. Alex Vazquez, P.E. Project Manager ADA Engineering, Inc. 1800 Old Okeechobee Road Suite 102 West Palm Beach, FL 33409

South Florida Water Management District EAA Regional Feasibility Study ADA Contract No. CN040912-WO04 Phase 2 Methodology for Development of Daily Total Phosphorus Concentrations <u>B&McD Project No. 38318</u>

Dear Mr. Vazquez:

Burns & McDonnell is pleased to submit this Final report on the "Methodology for Development of Daily Total Phosphorus Concentrations". This document constitutes Deliverable 1.4.2 under ADA Engineering, Inc. Task Order No. BM-05WO04-02 dated April 27, 2005.

We gratefully acknowledge the valuable contributions of both your staff and that of the South Florida Water Management District in the development of the information presented herein.

#### Certification

I hereby certify, as a professional engineer in the State of Florida, that the information in this document was assembled under my direct personal charge. This report is not intended or represented to be suitable for reuse without specific verification or adaptation by the Engineer. This certification is provided in accordance with the provisions of the Laws and Rules of the Florida Board of Professional Engineers under Chapter 61G15-29, Florida Administrative Code.

Galen E. Miller, P.E., Florida P.E. #40624 Date:\_\_\_\_\_

(Reproductions are not valid unless signed, dated and embossed with Engineer's seal)

9400 Ward Parkway Kansas City, Missouri 64114-3319 Tel: 816 333-9400 Fax: 816 333-3690 www.burnsmcd.com Florida Professional Certificates: Architecture – AAC000567 Engineering – EB0000253



## Table of Contents

NERAL	. 1
BACKGROUND	1
SCOPE OF WORK	. 1
Key Parameters	2
MPARATIVE ANALYSIS	. 2
DMSTA 04/12/2002 Results	. 4
DMSTA 2 RESULTS	. 4
CONCLUSIONS	6
]	BACKGROUND SCOPE OF WORK

#### List of Tables

TABLE 2.1. SUMMARY OF STA-1W ALTERNATIVES	3
TABLE 2.2. 31-YR MONTHLY FLOW-WEIGHTED MEAN TP CONCENTRATION	3
TABLE 2.3. STA-1W INPUT AND OUTPUT FILES FOR DMSTA 2002 RUNS	4
TABLE 2.4. STA-1W OUTFLOW TP CONCENTRATION FROM DMSTA 2002 RUNS	4
TABLE 2.5. STA-1W INPUT CASES AND OUTPUT FOLDERS FOR DMSTA2 RUNS	5
TABLE 2.6. STA-1W OUTFLOW TP CONCENTRATION FROM DMSTA2 RUNS	5

### List of Appendices

Background DMSTA Information for STA-1W	A
DMSTA 04/12/2002 Runs	B
DMSTA2 Runs	C



## 1. GENERAL

This report documents the work completed to assess the sensitivity of the DMSTA analysis to use 31-yr average monthly concentrations in lieu of daily, flow-dependent concentrations. This report is the principal deliverable under Task 1.4 in Phase 2 of the Everglades Agricultural Area (EAA) Regional Feasibility Study (RFS).

#### 1.1. Background

Under the Everglades Construction Project (ECP), the South Florida Water Management District (District) and the U.S. Army Corps of Engineers have constructed several Stormwater Treatment Areas (STAs) to help improve the quality of waters released to the Everglades Protection Area (EPA). In addition to the existing STAs, the District is planning certain STA expansions and enhancements, EAA canal improvements, construction of the EAA Storage Reservoir Project, and other EAA improvements. With recognition of these planned improvements, the EAA RFS will evaluate alternatives for redistributing inflow volumes and phosphorus loads to the various STAs to optimize phosphorus removal performance. This study is not intended to define the final arrangement, location or character of these proposed projects but is a fact-finding exercise to develop the information necessary for the subsequent planning, design and construction of these future projects.

#### 1.2. Scope of Work

The EAA RFS, Phase 2 is being performed under Contract CN040912, Work Order No. 4 (CN040912-WO04) between the District and ADA Engineering Inc (ADA). ADA has subcontracted portions of the work under this Phase 2 study, including the current Task 1.4, to Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell).

The work for Phase 2 is segregated into eight primary tasks. The first of these tasks, Task 1, involves the collection of baseline data for the principal drainage basins of the EAA. Task 1 is further divided into five subtasks, which are outlined below:

- Task 1.1 Evaluate 2006 hydrologic simulation results
- Task 1.2 Evaluate 2010 and 2015 hydrologic simulation results
- Task 1.3 Develop inflow volumes, and total phosphorus concentrations and loads



Burns &



- Task 1.4 Define methodology to develop STA inflow datasets
- Task 1.5 Develop inflow datasets for STAs

For development of the May 2001 *Baseline Data*, the District estimated daily variations in total phosphorus concentrations as a function of discharge through development of a series of regression analyses. The District approach was in response to feedback on an earlier version of the *Baseline Data* in which it was suggested that capturing the variability of inflow phosphorus concentrations was of higher priority than preserving long-term flow-weighted mean total phosphorus concentrations. The resultant standard errors of estimate resulting from the regression analyses were relatively high, and the overall estimates of inflow loads varied from the historic data.

Thus, for Task 1.4, Burns & McDonnell assessed the proposed phosphorus concentration methodology for one of the STAs, STA-1W, using the original inflow series for the 31-year period January 1, 1965, through December 31, 1995 as presented in the May 2001 *Baseline Data* through the DMSTA Versions 1 & 2. The analysis was conducted to assess the suitability for use of a time-period-average monthly TP concentration in subsequent tasks.

#### 1.3. Key Parameters

The DMSTA (Version 1 and 2) model utilizes many temporal, hydraulic, seepage, vegetation-type and other parameters to assess STA outflows. As this analysis is focused strictly on the sensitivity of the results to the method employed in assessing inflow TP concentrations, the parameters as presented in the Basin-Specific Feasibility Studies were not modified, with the single exception of the vegetation calibration employed in DMSTA2. Background information for all three STA-1W alternatives necessary to simulate outflow concentrations is presented in Appendix A.

## 2. COMPARATIVE ANALYSIS

The original analysis for STA-1W included three alternatives as shown in Table 2.1. These three alternatives are used to compare the following scenarios:





- 1. Daily phosphorus concentration vs. 31-yr average monthly phosphorus concentration using the April 12, 2002 version of DMSTA.
- 2. Same as above except using DMSTA2 (version dated June 2, 2005)

Alt.	BMP Source Controls	<b>Regional Treatment</b>	Sequencing over 50 years
Baseline	50% for S-5A	STA-1W (existing)	just STA 1W between 2006 and 2056 with no retrofits
1	50% for S-5A	Optimize STA-1W by 2006	STA 1W retrofit with emer/SAV between 2006 and 2056
2*	50% for S-5A	Further Optimize STA-1W by 2006 to achieve LSC	STA 1W between 2006 and 2056 with additional retrofits to achieve LSC

#### Table 2.1 Summary of STA-1W Alternatives

\*Alternative which achieved phosphorus outflow concentration goal.

In the above tabulation, "LSC" refers to the Lowest Sustainable Concentration, which in the 2002 analyses were taken as 14 ppb for flow-weighted means and 10 ppb for geometric means.

These twelve DMSTA runs are compared in terms of the outflow flow-weighted and geometric mean TP concentrations.

#### 2.1. TP Concentrations

The original input TP flow concentrations as presented in the 2002 analyses are daily concentrations as calculated through regression as a function of discharge. The minimum, maximum and flow-weighted mean TP concentrations of this daily-variable data set are 106 ppb, 240 ppb, and 139 ppb, respectively. All three STA-1W alternatives used the same baseline flow and concentration data; thus the 31-yr monthly average TP concentration is calculated is the same for all alternatives as shown in Table 2.2.

31-yr Monthly Average	January	February	March	April	May	June	July	August	September	October	November	December
TP FWM Conc (ppb)	162	160	169	165	134	130	129	129	131	134	152	152





#### 2.2. DMSTA 04/12/2002 Results

The input and output file names for all three STA-1W alternatives simulated with the April 12, 2002 version of DMSTA using the original and modified TP concentrations are shown in Table 2.3. The detailed listing of input variables employed in the analyses of these alternatives together with a detailed listing of computer output variables resulting from those analyses are presented in Appendix B (which consists of screen information taken directly from the DMSTA output files).

#### Table 2.3 STA-1W Input and Output Files for DMSTA 2002 Runs

	5	STA-1W Alternative Scenari	0
TP Concentration Parameter	Baseline	Alternative 1	Alternative 2
Daily TP Concentration			
Input	1W_baseline_Data.xls	1W_Alt1_Data.xls	1W_Alt2_Data.xls
Output	1W_baseline_Out.xls	1W_Alt1_Out.xls	1W_Alt2_Out.xls
31-yr Average Monthly TP Concentration			
Input	1W_baseline_AMC_Data.xls	1W_Alt1_AMC_Data.xls	1W_Alt2_AMC_Data.xls
Output	1W_baseline_AMC_Data.xls	1W_Alt1_AMC_Out.xls	1W_Alt2_AMC_Out.xls

The geometric and flow-weighted mean TP concentration results for all three STA-1W alternatives using the original and modified TP concentrations are shown in Table 2.4. The resultant differences between the two methods of assigning inflow concentrations are 0.1 ppb or less.

Table 2.4 STA-1W Outflow TP Concentration from DMSTA 2002 Runs

	STA-	1W Alternative Se	cenario
TP Concentration Parameter	Baseline	Alternative 1	Alternative 2
Daily TP Concentration			
Flow Weighted Mean TP Concentration (ppb)	24.3	18.7	13.3*
Geometric Mean TP Concentration (ppb)	24.1	13.6	9.3**
31-yr Average Monthly TP Concentration			
Flow Weighted Mean TP Concentration (ppb)	24.2	18.6	13.2*
Geometric Mean TP Concentration (ppb)	24.0	13.5	9.3**

\*Computed Flow-weighted Mean Conc. less than 2002 LSC assigned as 14 ppb. \*\*Computed Geo.Mean Conc. less than 2002 LSC assigned as 10 ppb.

#### 2.3. DMSTA 2 Results

The input case names (both the input flow and load time series and input parameter worksheets) of the 1W\_Data2.xls file and output folders (containing the individually saved DMSTA2 runs) simulated with DMSTA2 using the original and modified TP concentrations

are shown in Table 2.5.



	STA	-1W Alternative Scer	nario
TP Concentration Parameter	Baseline	Alternative 1	Alternative 2
Daily TP Concentration			
Input (TS_STA)	1W_baseline	1W_Alt1	1W_Alt2
Output	STA1W_Baseline	1W_Alt1	1W_Alt2
31-yr Average Monthly TP Concentration			
Input (TS_STA_Mod)	1W_baseline	1W_Alt1	1W_Alt2
Output	1W_Baseline_AMC	1W_Alt1_AMC	1W_Alt2_AMC

 Table 2.5 STA-1W Input Cases and Output Folders for DMSTA2 Runs

The geometric and flow-weighted mean TP concentration results for all three STA-1W alternatives using the original and modified TP concentrations are shown in Table 2.6. The resultant differences between the two concentration types are 0.2 ppb or less.

Table 2.6 STA-1W Outflow TP Concentration from DMSTA2 Runs

	STA-	1W Alternative Se	cenario
TP Concentration Parameter	Baseline	Alternative 1	Alternative 2
Daily TP Concentration			
Flow Weighted Mean TP Concentration (ppb)	27.1	22.6	16.1
Geometric Mean TP Concentration (ppb)	24.6	16.5	12.2
31-yr Average Monthly TP Concentration			
Flow Weighted Mean TP Concentration (ppb)	26.9	22.4	16.0
Geometric Mean TP Concentration (ppb)	24.5	16.4	12.1

It should here be noted that the projected outflow concentrations from STA-1W resulting from this analysis are not representative of those to be developed under subsequent tasks to completed under this contract. These analyses have utilized the inflow time series for STA-1W originally developed for use in the 2002 Basin-Specific Feasibility Studies, which is expected to be substantially modified for the EAA Regional Feasibility Study. The sole purpose in the conduct of the analyses summarized herein is to assess the sensitivity of DMSTA output to the manner in which inflow TP concentrations are assigned.





#### 2.4. Conclusions

Based on the analyses summarized herein, it is concluded that the long-term flow-weighted and geometric mean concentrations computed using either the April, 2002 version of DMSTA or the June 2005 DMSTA2 do not change significantly if monthly flow-weighted mean TP concentrations are substituted for variable daily concentrations estimated on the basis of daily discharge. The differences in computed outflow concentrations are 0.2 ppb or less.

It therefore appears practicable to establish TP concentrations in the inflow time series for DMSTA2 analyses to be conducted under subsequent tasks on the basis of monthly flow-weighted mean TP concentrations, as have been developed under Task 1.3, without significantly biasing the results. The monthly flow-weighted mean TP concentrations developed under Task 1.3 will be coupled with the runoff and Lake Okeechobee release volumes developed under Tasks 1.1 to establish daily time series of inflows for subsequent DMSTA2 analyses. TP concentrations associated with Lake Okeechobee release volumes will vary by point of release consistent with the information presented in the Phase 2, Task 1.3 final report.





## Appendix A

## Background DMSTA Information for STA-1W

## Table of Contents

I. BACKG	ROUND INFORMATION FOR STA-1W DMSTA MODEL A-	1
1.1. STA	A-1W BASELINE CONDITIONS	1
1.1.1.	Model Configuration	2
1.1.2.	Input Data SummaryA-	4
1.1.3.	Summary of Input Variables	5
1.2. STA	A-1W ALTERNATIVE 1 A-	7
1.2.1.	Treatment Analysis Input Data SummaryA-	8
1.2.2.	Summary of Input Variables for Treatment Analysis	9
1.3. STA	A-1W ALTERNATIVE 2 A-	9
1.3.1.	Treatment Analysis Input Data SummaryA-1	0
1.3.2.	Summary of Input Variables for Treatment Analysis	0

#### List of Tables

TABLE A.1 ESTIMATED INFLOWS, STA-1W EXISTING ANALYSIS, 1965-1995 A-3
TABLE A.2 STA-1W HYDRAULIC PROPERTIES, EXISTING DESIGN (BASELINE 2007-2056) A-6
TABLE A.3 ESTIMATED SEEPAGE LOSS RATES AND RECOVERY FROM STA-1W A-7

#### List of Figures

FIGURE A.1. SCHEMATIC OF STA-1W	. A-2
FIGURE A.2. SCHEMATIC OF STA-1W UNDER ALTERNATIVE 1	. A-8
	110
FIGURE A.3. SCHEMATIC OF STA-1W UNDER ALTERNATIVE 2	. A-9



### 2. BACKGROUND INFORMATION FOR STA-1W DMSTA MODEL

This appendix presents the necessary STA-1W background information for DMSTA modeling as taken from the Basin-Specific Feasibility Studies for the purposes of this report.

#### 2.5. STA-1W Baseline Conditions

STA-1W provides a total effective treatment area of 6,670 acres, generally bounded by the Ocean Canal (on the north) and Water Conservation Area 1 (on the east and south). Those inflows are comprised of contributions from a number of sources, including:

- Agricultural runoff and discharges from the S-5A Basin
- WPB Canal BMP Makeup Water (MUW)
- Supplemental (irrigation) water necessary to prevent dryout of the STA from Lake Okeechobee

STA-1W has three flow paths, each developed with cells in series. The northern path flows in a westerly direction and the eastern and western path flows in a southerly direction. Cells 1 through 4 comprise the original Everglades Nutrient Removal (ENR) project. All cells have emergent macrophytic vegetative communities except Cells 4 and 5B which have SAV.

A schematic of the current design of STA-1W is presented in Figure A.1.

An analysis of Existing Conditions was prepared to assess the probable performance of STA-1W under regional conditions existing upon completion of the Everglades Construction Project, but prior to completion of other major initiatives (such as the Comprehensive Everglades Restoration Plan, or CERP). That analysis was prepared for a thirty-one year period, extending from 1965 through 1995, using simulated inflow volumes from the District's South Florida Water Management Model (SFWMM) and inflow total phosphorus (TP) loads developed as defined in the District's May, 2001 *Baseline Data for the Basin-Specific Feasibility Studies*.





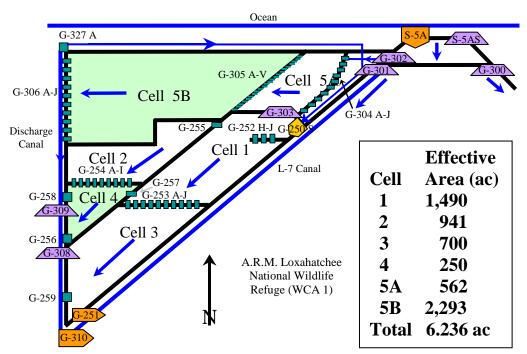


Figure A.1. Schematic of STA-1W

#### 2.5.1. Model Configuration

STA-1W is the most hydrologically complex of the various STAs. It encompasses a number of unique features that directly impact its modeled configuration.

Cells 1 through 4 consist of the original Everglades Nutrient Removal (ENR) Project. The ENR Project was constructed on available lands, with the result that the overall footprint of the project was triangular in nature. The net effect of that overall configuration is that the hydraulic capacities of Cells 3 and 4 are limited to peak rates of flow well below the rates intended upon completion of STA-1W. Structure G-308 (on the west side of Cell 3) and Structure G-309 (on the west side of Cell 4) were added during construction of STA-1W to permit discharge of peak rates of flow in advance of the "funnels" at the lower ends of the treatment cells. Those structures are each fed by an east-west canals extending across the cell served by the structure.





The model of STA-1W is structured on the assumption that the bulk of discharges from Cells 3 and 4 are passed through G-308 and G-309, respectively, rendering the bulk of the treatment cells' areas downstream of those structures as largely ineffective for treatment. In this analysis, the effective treatment area in Cell 3 is reduced from 1,026 to 700 acres; the effective treatment area in Cell 4 is reduced from 358 to 250 acres.

Cells 1 and 3 immediately abut the Loxahatchee National Wildlife Refuge (WCA-1), with the result that significant seepage from the Refuge to those cells can be anticipated. While that alone is not unusual (other STAs also experience seepage inflows from adjacent water bodies), an unusual feature in STA-1W is the presence of the seepage collection canal extending north from Pumping Station G-250. That seepage collection canal lies between the STA-1W Inflow Canal across the east end of Cell 5A and the Refuge. As a result, seepage is induced to that canal from both the Refuge and Cell 5A. That induced seepage is included in the model as upwelling seepage in Cell 1 of STA-1W. The model also was structured to incorporate estimated seepage inflows from the Refuge directly to Cells 1 and 3, and seepage from Cells 1 and 3 to Cells 2 and 4.

Each of Cells 1 through 4 has been documented as having relatively poor flow distribution characteristics. In Cells 1 and 3, the poor flow distribution is considered to result from a combination of "side-tipping" (e.g., the cell floor topography slopes down from east to west), and the presence of remnant agricultural canals, particularly those oriented in the north-south direction.

In Cells 2 and 4, a significant short circuit remains along the east perimeter, consisting of the remnants of a borrow canal excavated to facilitate construction of the FPL access roadway forming the east levee of those cells. In addition, flows are distributed across the north end of Cell 2 by simple overflow of the south bank of a Distribution Canal along the north levee of Cell 2. The shorter flow path (and slightly lower ground surface elevations) in the westerly part of Cell 2 results, during significant inflow events, in a flow imbalance favoring the westerly part of the cell, resulting in higher-than-desirable





flow velocities in the marsh. Those elevated velocities tend to "clear a path" through the marsh, which further compounds the flow imbalance in the cell.

A further complicating factor in the operation of STA-1W is the limited capability to effectively control the distribution of inflows between Cells 1 and 2. Structure G-255, which controls inflows to Cell 2, is controlled by stop logs and cannot be readily adjusted to maintain desirable flow distributions between the two flow paths. In addition, the headwater elevation at G-225 is driven by stages in the Cell 1 and 3 marshes, which are not subject to precise estimation. While in the remainder of the STAs the distribution of inflows is generally based on a uniform aerial loading, the inflow fractions assigned to the various flow paths of STA-1W have been imbalanced in this analysis, with roughly 50% assigned to Cells 5A and 5B, and the remainder evenly divided between Cells 1/3 and 2/4.

#### 2.5.2. Input Data Summary

The following paragraphs summarize basic data employed in the analysis of Existing Conditions for STA-1W. Daily inflow rates, TP concentrations, rainfall and evapotranspiration employed in the original 2002 DMSTA analysis of Existing Conditions are included in an Excel file "1W\_baseline\_Data.xls".

**Inflow Volumes and TP Loads:** As presented in the District's May, 2001 *Baseline Data for the Basin-Specific Feasibility Studies*, the estimated average annual inflows to STA-1W over the 31-year period are 160,334 acre-feet per year at a flow-weighted mean inflow concentration of 139 ppb (27.40 metric tons inflow TP per year).

Daily estimates of inflow by source were taken from an Excel spreadsheet prepared by the District in connection with preparation of the *Baseline Data* (file name "sta1w inflow tp.xls" dated May 10, 2001). Table A.1 summarizes the estimated average annual inflow volumes and total phosphorus (TP) loads and concentrations to STA-1W represented in those daily estimates.





Inflow Source and Description	Average An	Flow-Weighted	
	Volume	Volume TP Load	
	(ac-ft)	(1,000 kg)	(ppb)
S-5A Basin	139,891	23.86	138
WPB Canal BMP MUW	20,149	3.49	140
Lake Okeechobee			
Water Supply	294	0.05	141
Total Average Annual Inflows	160,334	27.40	139

 Table A.1 Estimated Inflows, STA-1W Existing Analysis, 1965-1995

Rainfall: For the 31-year period, daily estimates of rainfall over the surface of STA-1W were taken from the SFWMM simulation; the daily values were taken from a District-furnished Excel workbook (file name "2050wPROJ\_rfet.xls" dated March 11, 2002; worksheet identification "RF-STAs(inches)"). The average annual rainfall over the surface of STA-1W as reflected in that data file is estimated to be 56.24".

Evapotranspiration: Daily estimates of evapotranspiration over the surface of STA-1W were also taken from the SFWMM simulation; the daily values were taken from a District-furnished Excel workbook (file name "2050wPROJ\_rfet.xls" dated March 11, 2002: worksheet identification "ET-STAs(inches)"). The average annual evapotranspiration over the surface of STA-1W as reflected in that data file is estimated to be 55.45". It should here be noted that the daily ET values were estimated as specific to the operation of STA-1W under the 2050 "with-CERP" simulation, and may not be fully representative of ET for the baseline condition. However, the analysis is not sensitive to minor variations in ET, and further refinement of those daily estimates is considered unnecessary for feasibility-level analyses.

#### 2.5.3. Summary of Input Variables

The following paragraphs summarize input variables employed in the analysis of Existing Conditions for STA-1W. Those input variables are defined in an Excel worksheet entitled "Baseline" included in the original 2002 workbook "1W\_baseline\_Data.xls".

**Hydraulic Properties:** Depth-discharge relationships specified in the DMSTA input file for each cell of STA-1W were based on analysis of detailed information presented in the





*Operation Plan Stormwater Treatment Area 1 West*, January 2001. A summary of that analysis is presented in Table A.2. The outlet control depth in each cell was established at 40 cm (approx. 15") and 60 cm for emergent and SAV communities, respectively, consistent with the current design basis of STA-1W.

		Mean									Compute	
	Area	Ground			Ave. Cell	Mean					d	Ratio,
	(Acre)	Elev.(ft.	Discharge	Discharge	Width	Stage (ft.	Mean		Coeff. A		Discharge	Comp.
Cell		NGVD)	(cfs)	(hm*3/d)	(km)	NGVD)	Depth (ft)	Depth (m)	(m)	Exp. B	(hm*3/d)	Q/Target
1	1490	10.10	34	0.084	1.1	11.10	1.00	0.305	1.24	2.35	0.084	1.00
1	1490	10.10	930	2.275	1.1	14.18	4.08	1.244	1.24	2.35	2.275	1.00
2	941	9.50	50	0.121	1.74	10.50	1.00	0.305	1.38	2.51	0.121	1.00
2	941	9.50	850	2.080	1.74	12.60	3.10	0.945	1.38	2.51	2.080	1.00
3	676	10.40	53	0.131	2.48	11.40	1.00	0.305	1.03	2.50	0.131	1.00
3	676	10.40	930	2.275	2.48	13.53	3.13	0.954	1.03	2.50	2.275	1.00
4	307.7	9.70	49	0.119	1.83	10.70	1.00	0.305	1.28	2.50	0.119	1.00
4	307.7	9.70	850	2.080	1.83	12.83	3.13	0.954	1.28	2.50	2.080	1.00
5A	562	9.50	104	0.253	1.78	10.50	1.00	0.305	2.75	2.49	0.253	1.00
5A	562	9.50	1,470	3.597	1.78	12.40	2.90	0.884	2.75	2.49	3.597	1.00
5B	2293	9.50	249	0.610	2.34	10.50	1.00	0.305	3.78	2.25	0.610	1.00
5B	2293	9.50	1,470	3.597	2.34	11.70	2.20	0.671	3.78	2.25	3.597	1.00

 Table A.2 STA-1W Hydraulic Properties, Existing Design (Baseline 2007-2056)

**Seepage:** A summary of the seepage inflows and losses (and estimated recoveries) from the various cells of STA-1W, based on the information presented in the January 2001 *Operation Plan Stormwater Treatment Area 1 West*, is presented in Table A.3.

As presented in the January, 2001 *Operation Plan Stormwater Treatment Area 1 West*, Cells 1, 3, & 5A receive seepage inflows from the WCA1 Area. The design of STA-1W is developed to return all recovered seepage from the north lines of the treatment area to the upstream end of Cell 1. That condition cannot be represented in the DMSTA analysis.

**Treatment Parameters:** As presented in the January, 2001 *Operation Plan Stormwater Treatment Area 1 West*, Cells 1 and 3 of STA-1W are composed of 67% emergent macrophytic marsh and 33% SAV. Cells 2 and 4 have 33% emergent and 67% SAV vegetation, respectively. The composition of STA-1W is assigned as emergent for Cells 1-3, and SAV\_C4 for Cell 4. Cell 5A is emergent vegetation while its downstream cell, 5B is presently developed in SAV. Default values in the DMSTA model for Emergent and SAV\_C4 communities were employed in the analysis of existing conditions.





				Total				
			Rate	Seepage	Cell Area	Loss Rate	Loss Rate	
Cell	Location	Length (ft)	(cf/d/ft/ft))	(cf/day/ft)	(ac)	(ft/d/ft)	(m/yr/m)	% Recovery
1	East Line	14,000	16.5	231,000	1,490	0.00356	1.299	Inflow
Seep Canal	WCA-1	6,700	33.0	221,100	1,490	0.00341	1.243	Inflow
Seep Canal	5A	6,700	33.0	221,100	1,490	0.00341	1.243	Inflow
1	Seep In				1,490	0.01038	3.789	Inflow
1	West Line	13,600	16.5	224,400	1,490	0.00346	1.262	0
2	East Line	13,600	16.5	224,400	941	0.00547	1.998	Inflow
3	East Line	12,500	16.5	206,250	700	0.00676	2.469	Inflow
3	West Line	3,200	16.5	52,800	700	0.00173	0.632	0
4	East Line	3,200	16.5	52,800	250	0.00485	1.770	Inflow
5A	North Line	5,000	33.0	165,000	562	0.00674	2.460	80
	East Line	6,700	33.0	221,100	562	0.00903	3.297	100
	Total	(Similar conti	rol elevation b	oth locations)		0.01577	5.757	91
5B	North Line	15,000	33.0	495,000	2,293	0.00496	1.809	80
		Ave. Grade	Control	Relative to	Relative to			
		(ft. NGVD)	Elev. (ft.	Ave. Grade	Ave. Grade			
Cell	Location	*	NGVD)	(ft)	(cm)	Remarks		
1	East Line	10.10	15.75	5.65		Mean Stage	e in WCA-1	
1	Seep. Canal	8.00	15.75	7.75		Head Diff.,	WCA-1 to Se	eep Canal
1	Seep. Canal	8.00	11.5	3.5		Head Diff.,	Cell 5A to Se	ep Canal
1	Total In	10.10	16.1	6	183	Weighted A	Ave. for Net Ir	nflows
1	West (Out)	10.10	11.5	1.4	43	Assumed m	ean stage in C	Cell 2
2	East (In)	9.50	12.8	3.3	101	Assumed m	ean stage in C	Cell 1
3	East Line	10.40	15.75	5.35	163	Mean Stage	e in WCA-1	
3	West Line	10.40	11.7	1.3	40	Assumed m	ean stage in C	Cell 4
4	East Line	9.70	12.4	2.7	82	Assumed m	ean stage in C	Cell 3
5A	North Line	9.50	8	-1.5	-46	Seepage Ca	unal Control E	levation
	East Line	9.50	8	-1.5	-46	Seepage Ca	unal Control E	levation
5B	North Line	9.50	8	-1.5	-46	Seepage Ca	unal Control E	levation

Table A.3 Estimated Seepage Loss Rates and Recovery from STA-1W

**No. of CSTRs in Series:** For analysis of existing conditions, Cells 1, 2, 3, and 4 are described as 2 CSTRs in series to account for documented short-circuiting. The short-circuiting results from both remnant agricultural canals generally parallel to flow paths, and from side-tipped topography in Cells 1 and 3. Cell 5A is described with 2 CSTRs in series due to the short flow path. Cell 5B is input as 2.5 CSTRs in series due to the presence of remnant agricultural canals, while recognizing its larger area and much longer flow path.

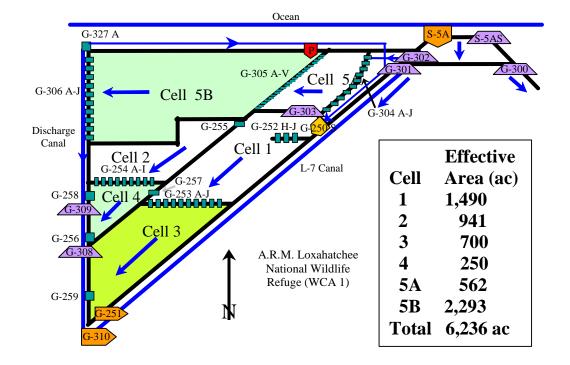
#### 2.6. STA-1W Alternative 1

Under Alternative No. 1, STA-1W would be modified to improve its performance, with completion of all modifications and placement into service of the modified treatment area occurring prior to 2007. For this analysis, that improvement is considered to consist of the





conversion of Cell 3 from emergent vegetation to Submerged Aquatic Vegetation (SAV\_C4).



A schematic of STA-1W under Alternative 1, is presented in Figure A.2.

Figure A.2. Schematic of STA-1W under Alternative 1

#### 2.6.1. Treatment Analysis Input Data Summary

Inflow rates, TP concentrations, rainfall and evapotranspiration employed in the DMSTA analysis of Alternative 1 are taken from the "sta1w inflow tp.xls" Excel file. Inflow volumes and TP loads are identical to those summarized in Table A.1. Estimated Inflows, STA-1W Existing Analysis, 1965-1995. Inflow rates, TP concentrations, rainfall, and evapotranspiration employed in the DMSTA analysis of Alternative 1 were taken from this file and these input variables are defined in the Excel worksheet "1W Alternative 1" included in the original 2002 workbook "1W\_Alt1\_Data.xls".





#### 2.6.2. Summary of Input Variables for Treatment Analysis

Other than as discussed below, input variables employed in the analysis of Alternative 1 for STA-1W are identical to those included in the Baseline 2007-2056 Condition analysis.

- The Outflow Control Depth in Cell 3 was modified from 40 cm to 60 cm.
- The vegetation type in Cell 3 was revised from "Emergent" to "SAV\_C4", and the associated default treatment parameters of DMSTA were employed in the analysis.

#### 2.7. STA-1W Alternative 2

Under Alternative No. 2, STA-1W would be further optimized through:

- Conversion of a part of both Cell 1 and Cell 2 to SAV
- Increased compartmentalization
- Improved flow distribution

Ocean G-327 A G-30 G-305 A Cell G-306 A-J Cell 5B 304 A-J 2 H-JG Discharge Effective Canal Cell Cell Area (ac) 7 Canal Cell 745 1 A Cell G-258 1 **B** 745 /G-3 2 A 471 e11 G-256 2 B 470 /G-3 A.R.M. Loxahatchee 3 700 National Wildlife Refuge (WCA 1) 4 250 G-259 **5**A 562 5B 2,293 Total 6,236 ac

A schematic of STA-1W under Alternative 2, is presented in Figure A.3.

Figure A.3. Schematic of STA-1W under Alternative 2





#### 2.7.1. Treatment Analysis Input Data Summary

Inflow rates, TP concentrations, rainfall and evapotranspiration employed in the DMSTA analysis of Alternative 2 are taken from the "sta1w inflow tp.xls" Excel file. TP loads are identical to those summarized in Table 2.24 Estimated Inflows, STA-1W Existing Analysis, 1965-1995. Inflow fractions were redistributed according to outflow TP concentrations in each parallel flow path until a geometric mean of 10 ppb for the STA was reached. Inflow rates, TP concentrations, rainfall, and evapotranspiration employed in the DMSTA analysis of Alternative 2 are defined in the Excel worksheet "1W Alternative 2" included in the original 2002 workbook "1W\_Alt2\_Data.xls".

#### 2.7.2. Summary of Input Variables for Treatment Analysis

The following additional modifications were made in the input parameters for Alternative 2 (Cell 3 was considered as converted to SAV\_C4 as was done for Alternative 1):

- Cell 1 was split into Cell 1A and 1B. It was considered that a new transverse levee and control structures would be constructed separating the two cells.
  - The split reduced the effective treatment area of emergent vegetation in Cell 1 from 1,490 acres to 745 acres (Cell 1A).
  - Likewise, the effective treatment area of SAV vegetation was increased with the addition of Cell 1B (745 acres).
- Cell 2 was split into Cell 2A and 2B. It was considered that a new transverse levee and control structures would be constructed in connection with that conversion.
  - The split reduced the effective treatment area of emergent vegetation in Cell 2 from 941 acres to 471 acres (Cell 2A).
  - Likewise, the effective treatment area of SAV vegetation was increased with the addition of Cell 2B (470 acres).
- The number of CSTRs increased in the cells with SAV increased due to additional compartmentalization.





- The distribution of inflows from G-302 was modified.
  - $\circ$  The inflow fraction to Cell 5A was reduced from 0.50 to 0.41.
  - $\circ$   $\;$  The inflow fraction to Cell 1 was increased from 0.25 to 0.39.
  - $\circ$  The inflow fraction to Cell 2 was reduced from 0.25 to 0.20.





## Appendix B DMSTA 04/12/2002 Runs

## List of Tables

TABLE B.1 RESULTS OF DMSTA 2002 ANALYSIS, STA-1W EXISTING DESIGN (BASELINE 2007-
2056)B-1
TABLE B.2 RESULTS OF DMSTA 2002 ANALYSIS, STA-1W, ALTERNATIVE 1
TABLE B.3 RESULTS OF DMSTA 2002 ANALYSIS, STA-1W EXISTING DESIGN,
ALTERNATIVE 2
TABLE B.4 RESULTS OF DMSTA 2002 ANALYSIS, STA-1W EXISTING DESIGN (BASELINE 2007-
2056) – WITH 31-YR MONTHLY AVERAGE TP CONCENTRATIONS
TABLE B.5 RESULTS OF DMSTA 2002 ANALYSIS, STA-1W, ALTERNATIVE 1 – WITH 31-YR
MONTHLY AVERAGE TP CONCENTRATIONS
TABLE B.6 RESULTS OF DMSTA 2002 ANALYSIS, STA-1W EXISTING DESIGN,
ALTERNATIVE 2 – WITH 31-YR MONTHLY AVERAGE TP CONCENTRATIONS B-6





#### Table B.1 Results of DMSTA 2002 Analysis, STA-1W Existing Design (Baseline 2007-2056)

Design Case Name	Input Variable	
Starting Date for Simulation         -         010/165           Starting Date for Output         -         123195           Starting Date for Output         -         2           Water Estimation         -         2           Number of Iterations         -         2           Water Estimate Encore         %         0.0%           Starting Date for Output         -         2         Water Estimate Encore         %         0.0%           Starting Date for Simulation         -         2         Water Estimate Encore         %         0.0%           Starting Date for Simulation         -         2         Water Estimate Encore         %         0.0%           Starting Date for Simulation         -         2         Water Estimate Encore         %         0.0%           Starting Date for Simulation         -         2         4         5         2		
Starting Date for Output         -         Othor Separ Per Day         -         Output Variable         Units         Value           Number of Iterations         -         2         Water Balance Error         %         0.0%           Number of Iterations         -         2         Water Balance Error         %         0.0%           Reservoir H2C Residence Time         days         0         Flow-Wild Core - With Uppass         ppb         24.3           Reservoir H2C Residence Time         days         0         Flow-Wild Core - With Uppass         ppb         24.3           Reservoir P Deay Rate         1/1/r/pb         0         Flow-Wild Core - With Uppass         ppb         30.5           Atmospheric P Load (Dry)         mgm2vr         20         9         0         0         5           Cell Label         -         0.25         0.25         0	Starting Date for Simulation	
Step Pier Day	0	
Number of Herations         -         Query Liveraging Interval         days         Mass Balance Error         %         0.0%           Reservoir H2O Residence Time         days         Mass Reservoir Storage         hn3         Base Nations Vindue Storage         ppb         24.3           Max Reservoir Storage         hn3         Bit Procentic Mean Conc         ypb         24.1           Reservoir D Los (Chr)         mg/m2 ypb         0         Bit Procentic Conc         ppb         20.5           Cell Interior P Los (Chr)         mg/m2 ypb         0         Bit Procentic Conc         ppb         20.5           Downstream Cell Number         -         0.25         0.25         0.25         0.4         5.4         6.0           Number of Tarks in Series         -         2         2         2         2         3         0.0         6         0.0         0.	Starting Date for Output	
Output Averaging Interval Reservoir IZO Standage         Mass Balance Error         %         0.1%           Reservoir IZO standage         0         Flow-Wit Core - Withbut Styass         ppb         24.3           Max Inflow         -         0         Flow-Wit Core - Withbut Styass         ppb         24.3           Reservoir IZO sty Rate         (i)//ip/tpb         0         Geometric Mean Core         ppb         30.5           Reservoir IZO sty Rate         (i)//ip/tpb         0         Semetric Mean Core         ppb         30.5           Cell Labei         -         3         4         5         6           Cell Labei         -         3.5         4         0         0.5         0           Surface Area         km         1.10         1.74         2.48         1.83         1.12         2.274         9.79           Mean Victh of Flow Path         km         1.10         1.74         2.48         1.83         1.13         2.34         1.33         1.03         1.26         2.75         3.78         2.5         2.49         2.25         3.78           Vegetation Type         -         1.24         1.38         1.03         1.26         2.75         3.78         2.41         <		
Reservoir H2O Residence Time         digs         Flow-Wit Corn - With Upgass         ppb         24.3           Max Reservoir Storage         hm3         Geometric Mean Conc         ppb         24.1           Reservoir P Concept Rate         11/yrpb         0         Flow-Wit Corn - Without Bysass         ppb         24.3           Rainfall P Conc         ppb         0         Flow-Wit Corn - Without Bysass         ppb         24.1           Rainfall P Conc         ppb         0         Freq Cell Outflow > 10 ppb         %         4.9%           Rainfall P Conc         mg/m         1         2         3         4         4         8         9           Cell Number ->         -         EMERG         EMERG         SAV_C4         EMERG<		
Max. Inflow          0         Flow-Wild Conc- Without Bypass         ppb         24.3           Reservoir P Decay Rate         1/yrippb         0         Geometric Mean Conc         ppb         30.5           Armsapheric P Load (Dry)         mg/m2-yr         20         Bypass Load         %         0.0%           Cell Label           0.3         5.0		
Max Reservoir Storage         hn3         0         Geometric Mean Conc         ppb         24.1           Reservoir Decay Rate         1/yr/ppb         0         95th Percentile Conc         ppb         30.5           Ramspheric Load (Dv)         mg/m2-yr         2         3         4         5         8           Cell Number ->         Cell Amber         -         3         4         0         0         6         0         0.5         0           Downstream Cell Number         -         3         4         0         0         6         0         0.5         0         0         5         0         0         0.5         0         0         0.5         0		
Reservoir P Decay Rate         1 yr/ppb         0         95th Percentile Conc         ppb         30.5           Atmospheric P Load (Dry)         mg/m2-yr         20         Bypass Load         %         0.0%           Cell Label         -         -         Vegetation         1         2         3         4         5         6           Cell Label         -         -         0.25         0.25         0         0         0.5         0           Domstream Cell Number         -         3         4         0         0         6         0           Surface Area         Km2         6.030         3.808         2.833         1.012         2.274         9.275         3.78           Mumber OT Taks in Series         -         2         2         2         2         2         3         0 </td <td></td> <td></td>		
Rantangsheir De Conc         'pp: Data         'pp: Total Label         'pp: Data         Total Depthen         '%         0.0%           Cell Number -> Cell Number -> Cell Label         -         2         3         4         5         6           Vegetation Type		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		
Cell Label         -		
Vegetation Type		
Inflow Fraction         -         0.25         0.25         0         0         0.5         0           Surface Area         km2         6.030         3.808         2.833         1.102         2.274         9.279           Mean Width of Flow Path         km         1.101         1.7.74         2.48         1.83         1.78         2.33           Outflow Control Depth         cm         55         67         46         60         60         60           Outflow Control Depth         cm         55         67         46         60         60         60           Outflow Control Depth         cm         1.24         1.38         1.03         1.28         2.75         3.78           Bypass Depth         cm         0		
Downstream Cell Number         -         3         4         0         0         6         0           Mean Width of Flow Path         km         11.10         17.4         2.48         11.83         11.78         2.34           Number of Tanks in Series         -         2         2         2         2         2         2         3           Outflow Control Depth         em         55         67         46         60         60         60           Outflow Control Depth         em         0 <td></td> <td></td>		
Surface Area         km2         6.030         3.808         2.833         1.102         2.274         9.279           Number of Tanks in Series         -         2         2         2         2         2         3           Outlidow Contricient - Exponent         -         2.25         2.48         2.55         2.49         2.25         3.78           Bypass Depth         -         1.24         1.38         1.033         1.28         2.75         3.78           Bypass Depth         -         1.24         1.38         1.033         1.28         2.75         3.78           Bypass Depth         -         1.24         1.38         1.010         1.63         8.2         0 <td></td> <td></td>		
Mean Width of Flow Path         km         1.10         1.74         2.48         1.83         1.78         2.34           Durflow Control Depth         cm         55         67         46         60         60         60           Ourflow Control Depth         cm         55         67         46         60         60         60           Ourflow Control Depth         cm         1.24         1.38         1.03         1.28         2.25         3.78           Bypass Depth         cm         0		
Number of Tanks in Series         -         2         2         2         2         2         2         3           Outlidow Coefficient - Intercept         -         2.35         2.51         2.5         2.49         2.25           Outlidow Coefficient - Intercept         -         1.24         1.38         1.03         1.28         2.75         3.78           Bypass Depth         m         0		
Outline Control Depth         om         55         67         46         60         60         60           Outline Coefficient - Intercept         -         1.24         1.38         1.03         1.28         2.75         3.78           Bypass Depth         m         0 <td< td=""><td></td><td></td></td<>		
Outflow Coefficient - Intercept         -         2.35         2.51         2.5         2.49         2.25           Bypass Depth         cm         0		
Outflow Coefficient - Intercept         -         1.24         1.38         1.03         1.28         2.75         3.78           Maximum Inflow         Hm3/day         0 <td< td=""><td></td><td></td></td<>		
Bypass Depth         m         0 <t< td=""><td></td><td></td></t<>		
Maximum Inflow         hm3/day         0		
Maximum Outflow         hm3/day Inflow Seepage Rate         (cm/d) / cm (cm/d) / cm         0         0         0         0         0         0         0         0           Inflow Seepage Rate         (cm/d) / cm         0.00345         0.00485         0         0         0           Inflow Seepage Control Elev         cm         183         101         163         82         0         0           Outflow Seepage Control Elev         cm         43         0         40         0         -46         -46           Max Outflow Seepage Control Elev         cm         43         0         40         0         -46         -46           Max Outflow Seepage Control Elev         cm         43         0         40         0         -46         -46           Seepage Discharge Fraction         -         0 <td></td> <td></td>		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		
Inflow Seepage Conc         ppb         183         101         163         82         0         0           Outflow Seepage Conc         ppb         20 <td></td> <td></td>		
Inflow Seepage Conc         ppb         20         20         20         20         20         20         20           Outflow Seepage Rate         (cm/d) / cm         0.00346         0         0.00173         0         0.01577         0.00496           Outflow Seepage Conc         ppb         20<	Inflow Seepage Control Elev	
Outflow Seepage Rate         (cm/d) / cm         0.00346         0         0.00173         0         0.01577         0.00496           Outflow Seepage Conc         ppb         20		)
Max Outflow Seepage Conc         ppb         20         10         10         10         10         0		496
Seepage Recycle Fraction         -         0 <td>Outflow Seepage Control Elev</td> <td>6</td>	Outflow Seepage Control Elev	6
Seepage Discharge Fraction         -         0 </td <td>Max Outflow Seepage Conc</td> <td>)</td>	Max Outflow Seepage Conc	)
Initial Water Column Conc         ppb         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         30         100         1	Seepage Recycle Fraction	8
Initial P Storage Per Unit Area         mg/m2         500 <t< td=""><td>Seepage Discharge Fraction</td><td></td></t<>	Seepage Discharge Fraction	
Initial Water Column Depth         om         50         50         50         50         50         50           C0 = WC Conc at 0 g/m2 P Storage         ppb         4         6         6         6         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Initial P Storage Per Unit Area	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
K = Net Settling Rate at Steady Statem/yr16161615.6680.1015.6680.10 $Zx = Depth Scale Factorcm60606060606060C0 - Periphytonppb0000000C1 - Periphytonppb00000000X - Periphyton1/yr0.000.000.000.000.000.000.000X - Periphytoncm000000000Sm = Transition Storage Midpointmg/m200000000Sb = Transition Storage Bandwidthmg/m200000000Starting Date for Simulation-01/01/6501/01/6501/01/6501/01/6501/01/6501/01/6501/01/6501/01/65Starting Date for Output-01/01/6501/01/6501/01/6501/01/6501/01/6501/01/6501/01/6501/01/65Cutput Durationdays11322113221132211322113221132211322Cell Label12345A5BDownstream Cell Label34Outflow5BOutflow5BDownstream Cell Label123.67.414.111.92.9Mean Water Loadcm/d2.23.67.414.1$		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
K - Periphyton1/yr0.000.000.000.000.000.000.00Zx - Periphytoncm000000000Sm = Transition Storage Midpointmg/m200000000Sb = Transition Storage Bandwidthmg/m200000000Output VariablesUnits123456Execution Timeseconds/yr0.741.612.713.363.974.94Run Date-05/31/0505/31/0505/31/0505/31/0505/31/0505/31/05Starting Date for Simulation-01/01/6501/01/6501/01/6501/01/6501/01/65Starting Date for Output-01/01/6501/01/6501/01/6501/01/6501/01/65Output Durationdays1132211322113221132211322Cell Label12345A5BDownstream Cell Label34OutflowOutflowSurface Areakm26.0303.8082.8331.0122.2749.279Mean Water Loadcm/d12.920.531.589.568.617.8Inflow Volumehm3/yr6854.86854.83322.83258.313709.69597.4Inflow Loadkg/yr6854.86854.83322.83258.313709.695		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		
Sm = Transition Storage Midpoint         mg/m2 mg/m2         0		
Sb = Transition Storage Bandwidth         mg/m2         0		
Output Variables         Units         1         2         3         4         5         6           Execution Time         seconds/yr         0.74         1.61         2.71         3.36         3.97         4.94           Run Date         -         05/31/05         01/01/65         01/01/65         01/01/65         01/01/65         01/01/65         01/01/65         01/01/65         01/01/65         01/01/65		
Execution Time         seconds/yr         0.74         1.61         2.71         3.36         3.97         4.94           Run Date         -         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         01/01/65 <td< td=""><td>SD = Transmon Storage Bandwidth</td><td></td></td<>	SD = Transmon Storage Bandwidth	
Execution Time         seconds/yr         0.74         1.61         2.71         3.36         3.97         4.94           Run Date         -         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         05/31/05         01/01/65 <td< td=""><td>Output Variables</td><td>Overall</td></td<>	Output Variables	Overall
Run Date         -         05/31/05         01/01/65         01		
Starting Date for Simulation         -         01/01/65		
Starting Date for Output         -         01/01/65 <td></td> <td></td>		
Ending Date         -         12/31/95         13/32         11322		
Output Duration         days         11322         11323         11323         11323         11323         11323         11323         11323         11324         11323         11324		
Cell Label         1         2         3         4         5A         5B           Downstream Cell Label         3         4         Outflow         0utflow         5B         Outflow           Surface Area         km2         6.030         3.808         2.833         1.012         2.274         9.279           Mean Water Load         cm/d         2.2         3.6         7.4         14.1         11.9         2.9           Max Water Load         cm/d         12.9         20.5         31.5         89.5         68.6         17.8           Inflow Volume         hm3/yr         49.5         49.5         77.1         52.2         99.0         97.8           Inflow Load         kg/yr         6854.8         6854.8         3322.8         3258.3         13709.6         9597.4           Inflow Conc         ppb         138.5         138.5         43.1         62.4         138.5         98.1           Treated Outflow Volume         hm3/yr         77.1         52.2         85.0         52.6         97.8         94.6           Treated Outflow Load         kg/yr         3322.8         3258.3         2626.0         159.5         9597.4         1428.0		
Surface Area         km2         6.030         3.808         2.833         1.012         2.274         9.279           Mean Water Load         cm/d         2.2         3.6         7.4         14.1         11.9         2.9           Max Water Load         cm/d         12.9         20.5         31.5         89.5         68.6         17.8           Inflow Volume         hm3/yr         49.5         49.5         77.1         52.2         99.0         97.8           Inflow Load         kg/yr         6854.8         6854.8         3322.8         3258.3         13709.6         9597.4           Inflow Conc         ppb         138.5         138.5         43.1         62.4         138.5         98.1           Treated Outflow Volume         hm3/yr         77.1         52.2         85.0         52.6         97.8         94.6           Treated Outflow Volume         hm3/yr         322.8         3258.3         2626.0         1599.5         9597.4         1428.0		
Mean Water Load         cm/d         2.2         3.6         7.4         14.1         11.9         2.9           Max Water Load         cm/d         12.9         20.5         31.5         89.5         68.6         17.8           Inflow Volume         hm3/yr         49.5         49.5         77.1         52.2         99.0         97.8           Inflow Load         kg/yr         6854.8         6854.8         3322.8         3258.3         13709.6         9597.4           Inflow Conc         ppb         138.5         138.5         43.1         62.4         138.5         98.1           Treated Outflow Volume         hm3/yr         77.1         52.2         85.0         52.6         97.8           Treated Outflow Volume         kg/yr         3322.8         3258.3         1369.5         94.6	Downstream Cell Label	low -
Max Water Load         cm/d         12.9         20.5         31.5         89.5         68.6         17.8           Inflow Volume         hm3/yr         49.5         49.5         77.1         52.2         99.0         97.8           Inflow Load         kg/yr         6854.8         6854.8         3322.8         3258.3         13709.6         957.4           Inflow Conc         ppb         138.5         138.5         43.1         62.4         138.5         98.1           Treated Outflow Volume         hm3/yr         77.1         52.2         85.0         52.6         97.8         94.6           Treated Outflow Load         kg/yr         3322.8         3258.3         2626.0         159.5         9597.4         1428.0	Surface Area	79 25.2
Inflow Volume         hm3/yr         49.5         49.5         77.1         52.2         99.0         97.8           Inflow Load         kg/yr         6854.8         6854.8         3322.8         3258.3         13709.6         957.4           Inflow Conc         ppb         138.5         138.5         43.1         62.4         138.5         98.1           Treated Outflow Volume         hm3/yr         77.1         52.2         85.0         52.6         97.8         94.6           Treated Outflow Load         kg/yr         3322.8         3258.3         2626.0         159.5         9597.4         1428.0	Mean Water Load	9 2.1
Inflow Load         kg/yr         6854.8         6854.8         3322.8         3258.3         13709.6         9597.4           Inflow Conc         ppb         138.5         138.5         43.1         62.4         138.5         98.1           Treated Outflow Volume         hm3/yr         77.1         52.2         85.0         52.6         97.8         94.6           Treated Outflow Load         kg/yr         3322.8         3258.3         2626.0         1599.5         9597.4         1428.0		
Inflow Conc         ppb         138.5         138.5         43.1         62.4         138.5         98.1           Treated Outflow Volume         hm3/yr         77.1         52.2         85.0         52.6         97.8         94.6           Treated Outflow Load         kg/yr         3322.8         3258.3         2626.0         1599.5         9597.4         1428.0		
Treated Outflow Volume         hm3/yr         77.1         52.2         85.0         52.6         97.8         94.6           Treated Outflow Load         kg/yr         3322.8         3258.3         2626.0         1599.5         9597.4         1428.0		
Treated Outflow Load         kg/yr         3322.8         3258.3         2626.0         1599.5         9597.4         1428.0		
0,		
Treated EWM Outflow Conc ppb 431 624 200 204 094 454		
	Treated FWM Outflow Conc	
Total Outflow Volume         hm3/yr         77.1         52.2         85.0         52.6         97.8         94.6		
Total Outflow Load         kg/yr         3322.8         3258.3         2626.0         1599.5         9597.4         1428.0		
Total FWM Outflow Conc         ppb         43.1         62.4         30.9         30.4         98.1         15.1		
Bypass Volume         hm3/yr         0.00         0.00         0.00         0.00         0.00         0.00		
Bypass Load kg/yr 0.00 0.00 0.00 0.00 0.00 0.00		
Bypass Conc ppb 0.0 0.0 0.0 0.0 0.0 0.0 0.0		
Bypass Load % 0% 0% 0% 0% 0.0		
Surface Outflow Load Reduc % 51.5% 52.5% 21.0% 50.9% 30.0% 85.1%		
Outflow Geometric Mean - Daily ppb 39.3 55.6 29.1 21.8 89.4 8.8		
Outflow Geo Mean - Composites ppb 39.7 56.2 29.2 22.8 91.4 9.3		
Frequency Outflow Conc > 10 ppb         %         100%         <	Frequency Outliow Conc > 10 ppb	100%

Contract CN040912-W004 Phase 2, Task 1.4 Dev't of Methodology for TP Concentrations B-1





#### Table B.2 Results of DMSTA 2002 Analysis, STA-1W, Alternative 1

Input Variable	Unite	Value	Cose Descript	i	Filonomo		vlo	
Input Variable Design Case Name	Units	Value Alt 1	Case Descript	s 1,2 & 5AEme	Filename:	1W_Alt1_Data		1
Starting Date for Simulation	-	01/01/65	Alternative 1					
Ending Date for Simulation	-	12/31/95						
Starting Date for Output	-	01/01/65						
Steps Per Day	-	3	Output Varial			Units	Value	
Number of Iterations	-	2	Water Balance		%	0.0%		
Output Averaging Interval	days	7	Mass Balance			%	0.1%	
Reservoir H2O Residence Time	days	0		ic - With Bypass		ppb	18.7	
Max Inflow / Mean Inflow	-	0		c - Without Byp	ass	ppb	18.7	
Max Reservoir Storage	hm3	0	Geometric Me			ppb	13.6 22.6	
Reservoir P Decay Rate Rainfall P Conc	1/yr/ppb	10	95th Percentil Freq Cell Outf			ppb %	45%	
Atmospheric P Load (Dry)	ppb mg/m2-yr	20	Bypass Load	10 W > 10 ppb		%	0.0%	
Cell Number>	iiig/iiiz-yi	1	<u>2</u>	<u>3</u>	4	5	<u>6</u>	
Cell Label	-	1	2	3	4	5A	5B	1
Vegetation Type	>	EMERG	EMERG	SAV C4	SAV C4	EMERG	SAV C4	
Inflow Fraction	-	0.25	0.25	0	0	0.5	0	
Downstream Cell Number	-	3	4	0	0	6	0	
Surface Area	km2	6.030	3.808	2.833	1.012	2.274	9.279	
Mean Width of Flow Path	km	1.10	1.74	2.48	1.83	1.78	2.34	
Number of Tanks in Series	-	2	2	2	2	2	3	
Outflow Control Depth	cm	55	67	46	60	60	60	
Outflow Coefficient - Exponent	-	2.35	2.51	2.5	2.5	2.49	2.25	
Outflow Coefficient - Intercept	-	1.24	1.38	1.03	1.28	2.75	3.78	
Bypass Depth	cm	0	0	0	0	0	0	
Maximum Inflow Maximum Outflow	hm3/day	0	0	0	0	0	0	
Inflow Seepage Rate	hm3/day (cm/d) / cm	0.01038	0.00547	0.00676	0.00485	0	0	
Inflow Seepage Control Elev	(cm/d) / cm	183	101	163	82	0	0	
Inflow Seepage Conc	ppb	20	20	20	20	20	20	
Outflow Seepage Rate	(cm/d) / cm	0.00346	0	0.00173	0	0.01577	0.00496	
Outflow Seepage Control Elev	cm	43	0	40	0	-46	-46	
Max Outflow Seepage Conc	ppb	20	20	20	20	20	20	
Seepage Recycle Fraction	-	0	0	0	0	0.91	0.8	
Seepage Discharge Fraction	-	0	0	0	0	0	0	
Initial Water Column Conc	ppb	30	30	30	30	30	30	
Initial P Storage Per Unit Area	mg/m2	500	500	500	500	500	500	
Initial Water Column Depth	cm	50	50	50	50	50	50	
C0 = WC Conc at 0 g/m2 P Storage	ppb	4	4	4	4	4	4	
C1 = WC Conc at 1 g/m2 P storage	ppb	22	22	22	22	22	22	
K = Net Settling Rate at Steady State	m/yr	16	16	80.10	80.10	15.66	80.10	
Zx = Depth Scale Factor C0 - Periphyton	cm	60 0	60 0	60 0	60 0	60 0	60 0	
C1 - Periphyton	ppb ppb	0	0	0	0	0	0	
K - Periphyton	1/yr	0.00	0.00	0.00	0.00	0.00	0.00	
Zx - Periphyton	cm	0	0	0	0	0	0.00	
Sm = Transition Storage Midpoint	mg/m2	0	0	0	0	0	0	
Sb = Transition Storage Bandwidth	mg/m2	0	0	0	0	0	0	
	5							-
Output Variables	<u>Units</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>Overall</u>
Execution Time	seconds/yr	0.77	1.39	2.16	2.87	3.52	4.39	4.39
Run Date	-	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05
Starting Date for Simulation	-	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65
Starting Date for Output	-	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65
Ending Date	-	12/31/95 11322	12/31/95 11322	12/31/95 11322	12/31/95 11322	12/31/95 11322	12/31/95 11322	12/31/95 11322
Output Duration Cell Label	days	11322	2	3	4	5A	5B	Total Outflo
Downstream Cell Label		3	4	Outflow	Outflow	5B	Outflow	-
Surface Area	km2	6.030	3.808	2.833	1.012	2.274	9.279	25.2
Mean Water Load	cm/d	2.2	3.6	7.4	14.1	11.9	2.9	2.1
Max Water Load	cm/d	12.9	20.5	31.5	89.5	68.6	17.8	12.4
Inflow Volume	hm3/yr	49.5	49.5	77.1	52.2	99.0	97.8	197.9
Inflow Load	kg/yr	6854.8	6854.8	3322.8	3258.3	13709.6	9597.4	27419.3
Inflow Conc	ppb	138.5	138.5	43.1	62.4	138.5	98.1	138.5
Treated Outflow Volume	hm3/yr	77.1	52.2	85.0	52.6	97.8	94.6	232.2
Treated Outflow Load	kg/yr	3322.8	3258.3	1324.8	1599.5	9597.4	1428.0	4352.3
Treated FWM Outflow Conc	ppb	43.1	62.4	15.6	30.4	98.1	15.1	18.7
Total Outflow Volume	hm3/yr	77.1	52.2	85.0	52.6 1500 5	97.8	94.6 1428 0	232.2
Total Outflow Load Total FWM Outflow Conc	kg/yr	3322.8 43.1	3258.3	1324.8 15.6	1599.5 30.4	9597.4 98.1	1428.0 15.1	4352.3 18.7
Bypass Volume	ppb bm3/vr	43.1	62.4 0.00	0.00	30.4 0.00	98.1 0.00	0.00	0.00
Bypass Volume Bypass Load	hm3/yr kg/yr	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bypass Conc	ppb	0.00	0.00	0.00	0.0	0.0	0.00	0.00
Bypass Load	%	0.0	0%	0%	0%	0%	0.0	0.0
Surface Outflow Load Reduc	%	51.5%	52.5%	60.1%	50.9%	30.0%	85.1%	84.1%
Outflow Geometric Mean - Daily	ppb	39.3	55.6	12.8	21.8	89.4	8.8	13.0
Outflow Geo Mean - Composites	ppb	39.7	56.2	13.1	22.8	91.4	9.3	13.6
Frequency Outflow Conc > 10 ppb	%	100%	100%	100%	100%	100%	100%	86%

Contract CN040912-WO04 Phase 2, Task 1.4 Dev't of Methodology for TP Concentrations B-2





#### Table B.3 Results of DMSTA 2002 Analysis, STA-1W Existing Design, Alternative 2

Input Variable	Units	Value	Case Descripti	ion:	Filename:	1W_Alt2_Data	vis	
Design Case Name	-	Alt 2		3 1,2 & 5AEme				1
Starting Date for Simulation	-	01/01/65	Alternative 2	,	J J. Co 0,4	04		
Ending Date for Simulation	-	12/31/95		inflows Balan	ced Outflow Cor	centrations		
Starting Date for Output	-	01/01/65	Redistributed inflows Balanced Outflow Concentrations Reduction of Cell 1 Area, Increase Cell 3 Area					
Steps Per Day	-	3	Output Varial		22.00 001 07 100	Units	Value	-
Number of Iterations	_	2	Water Balance			%	0.0%	
Output Averaging Interval	days	7	Mass Balance			%	0.1%	
Reservoir H2O Residence Time	days	0		c - With Bypass		ppb	13.3	
Max Inflow / Mean Inflow	-	0		c - Without Bypass		ppb	13.3	
Max Reservoir Storage	hm3	0	Geometric Me			ppb	9.3	
Reservoir P Decay Rate	1/yr/ppb	0	95th Percentile			ppb	16.9	
Rainfall P Conc		10	Freq Cell Outf			%	41%	
	ppb			iow > io ppp				
Atmospheric P Load (Dry)	mg/m2-yr	20	Bypass Load	•		%	0.0%	
Cell Number>		1	<u>2</u>	<u>3</u>	4	5	<u>6</u>	7
Cell Label	-	1	2	3	4	5A	5B	
Vegetation Type	>	EMERG	EMERG	SAV_C4	SAV_C4	EMERG	SAV_C4	
Inflow Fraction	-	0.39	0.2	0	0	0.41	0	
Downstream Cell Number		3	4	0	0	6	0	
Surface Area	km2	3.015	1.906	5.850	2.914	2.274	9.279	
Mean Width of Flow Path	km	1.10	1.74	2.48	1.83	1.78	2.34	
Number of Tanks in Series	-	2	2	4	6	2	3	
Outflow Control Depth	cm	55	67	46	60	60	60	
Outflow Coefficient - Exponent	-	2.35	2.51	2.5	2.5	2.49	2.25	
Outflow Coefficient - Intercept	-	1.24	1.38	1.03	1.28	2.75	3.78	
Bypass Depth	cm	0	0	0	0	0	0	
Maximum Inflow	hm3/day	0	0	0	0	0	0	
Maximum Outflow	hm3/day	0	0	0	0	0	0	
Inflow Seepage Rate	(cm/d) / cm	0.01038	0.00547	0.00676	0.00485	0	0	
Inflow Seepage Control Elev	cm	183	101	163	82	0	0	
Inflow Seepage Conc	ppb	20	20	20	20	20	20	
Outflow Seepage Rate	(cm/d) / cm	0.00346	0	0.00173	0	0.01577	0.00496	
Outflow Seepage Control Elev	cm	43	0	40	0	-46	-46	
Max Outflow Seepage Conc	ppb	20	20	20	20	20	20	
Seepage Recycle Fraction	-	0	0	0	0	0.91	0.8	
Seepage Discharge Fraction	-	0	0	0	0	0	0	
Initial Water Column Conc	ppb	30	30	30	30	30	30	
Initial P Storage Per Unit Area	mg/m2	500	500	500	500	500	500	
Initial Water Column Depth	cm	50	50	50	50	50	50	
C0 = WC Conc at 0 g/m2 P Storage	ppb	4	4	4	4	4	4	
C1 = WC Conc at 1 g/m2 P storage	ppb	22	22	22	22	22	22	
K = Net Settling Rate at Steady State	m/yr	16	16	80.10	80.10	15.66	80.10	
Zx = Depth Scale Factor	cm	60	60	60	60	60	60	
C0 - Periphyton		0	0	0	0	0	0	
	ppb	0	0	0	0	0	0	
C1 - Periphyton	ppb			-	-		-	
K - Periphyton	1/yr	0.00	0.00	0.00	0.00	0.00	0.00	
Zx - Periphyton	cm	0	0	0	0	0	0	
Sm = Transition Storage Midpoint	mg/m2	0	0	0	0	0	0	
Sb = Transition Storage Bandwidth	mg/m2	0	0	0	0	0	0	
- · · · · · · · ·								
Output Variables	Units seconds/yr	<u>1</u>				-	6	0
Execution Time		0.77	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	Overall
Due Data	Seconds/yr	0.77	1.45	2.61	4.29	4.97	5.94	5.94
Run Date	-	05/31/05	1.45 05/31/05	2.61 05/31/05	4.29 05/31/05	4.97 05/31/05	5.94 05/31/05	5.94 05/31/05
Starting Date for Simulation	-	05/31/05 01/01/65	1.45 05/31/05 01/01/65	2.61 05/31/05 01/01/65	4.29 05/31/05 01/01/65	4.97 05/31/05 01/01/65	5.94 05/31/05 01/01/65	5.94 05/31/05 01/01/65
Starting Date for Simulation Starting Date for Output	- - -	05/31/05 01/01/65 01/01/65	1.45 05/31/05 01/01/65 01/01/65	2.61 05/31/05 01/01/65 01/01/65	4.29 05/31/05 01/01/65 01/01/65	4.97 05/31/05 01/01/65 01/01/65	5.94 05/31/05 01/01/65 01/01/65	5.94 05/31/05 01/01/65 01/01/65
Starting Date for Simulation Starting Date for Output Ending Date	- ´ - -	05/31/05 01/01/65 01/01/65 12/31/95	1.45 05/31/05 01/01/65 01/01/65 12/31/95	2.61 05/31/05 01/01/65 01/01/65 12/31/95	4.29 05/31/05 01/01/65 01/01/65 12/31/95	4.97 05/31/05 01/01/65 01/01/65 12/31/95	5.94 05/31/05 01/01/65 01/01/65 12/31/95	5.94 05/31/05 01/01/65 01/01/65 12/31/95
Starting Date for Simulation Starting Date for Output Ending Date Output Duration	-	05/31/05 01/01/65 01/01/65 12/31/95 11322	1.45 05/31/05 01/01/65 01/01/65 12/31/95 11322	2.61 05/31/05 01/01/65 01/01/65 12/31/95 11322	4.29 05/31/05 01/01/65 01/01/65 12/31/95 11322	4.97 05/31/05 01/01/65 01/01/65 12/31/95 11322	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label	- ´ - -	05/31/05 01/01/65 01/01/65 12/31/95 11322 1	1.45 05/31/05 01/01/65 01/01/65 12/31/95 11322 2	2.61 05/31/05 01/01/65 01/01/65 12/31/95 11322 3	4.29 05/31/05 01/01/65 01/01/65 12/31/95 11322 4	4.97 05/31/05 01/01/65 01/01/65 12/31/95 11322 5A	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 5B	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label	- - days	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3	1.45 05/31/05 01/01/65 01/01/65 12/31/95 11322 2 4	2.61 05/31/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow	4.29 05/31/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow	4.97 05/31/05 01/01/65 01/01/65 12/31/95 11322 5A 5B	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 Total Outflor
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area	- - days km2	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015	1.45 05/31/05 01/01/65 12/31/95 11322 2 4 1.906	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow 9.279	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 Total Outflor 25.2
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load	- - days	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3	1.45 05/31/05 01/01/65 01/01/65 12/31/95 11322 2 4	2.61 05/31/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow	4.29 05/31/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow	4.97 05/31/05 01/01/65 01/01/65 12/31/95 11322 5A 5B	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 Total Outflor
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load	days km2 cm/d	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8 \end{array}$	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4	4.29 05/31/05 01/01/65 12/31/95 11322 4 Outflow 2.914 3.8 23.3	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3	5.94 05/31/05 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 Total Outfloo 25.2 2.1 12.4
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume	days km2 cm/d cm/d hm3/yr	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2	1.45 05/31/05 01/01/65 01/01/65 12/31/95 11322 2 4 1.906 5.7 32.8 39.6	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4 90.6	4.29 05/31/05 01/01/65 12/31/95 11322 4 Outflow 2.914 3.8 23.3 41.0	4.97 05/31/05 01/01/65 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3 81.2	5.94 05/31/05 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflor 25.2 2.1 12.4 197.9
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load	days km2 cm/d	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5	1.45 05/31/05 01/01/65 01/01/65 12/31/95 11322 2 4 1.906 5.7 32.8 39.6 5483.9	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4 90.6 7379.5	4.29 05/31/05 01/01/65 12/31/95 11322 4 Outflow 2.914 3.8 23.3 41.0 3254.4	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3 81.2 11241.9	5.94 05/31/05 01/01/65 12/31/95 11/322 5B Outflow 9.279 2.4 14.5 80.0 7379.8	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outfloo 25.2 2.1 12.4 197.9 27419.3
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc	days km2 cm/d cm/d hm3/yr	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5	1.45 05/31/05 01/01/65 12/31/95 11/322 2 4 1.906 5.7 32.8 39.6 5483.9 138.5	2.61 05/31/05 01/01/65 12/31/95 11/322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5	4.97 05/31/05 01/01/65 12/31/95 11/322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outfloo 25.2 2.1 12.4 197.9 27419.3 138.5
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load	- days cm/d cm/d hm3/yr kg/yr	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5	1.45 05/31/05 01/01/65 01/01/65 12/31/95 11322 2 4 1.906 5.7 32.8 39.6 5483.9	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4 90.6 7379.5	4.29 05/31/05 01/01/65 12/31/95 11322 4 Outflow 2.914 3.8 23.3 41.0 3254.4	4.97 05/31/05 01/01/65 12/31/95 11/322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0	5.94 05/31/05 01/01/65 12/31/95 11/322 5B Outflow 9.279 2.4 14.5 80.0 7379.8	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflo 25.2 2.1 12.4 197.9 27419.3
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load	- - - - - - - - - - - - - - - - - - -	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4 \end{array}$	2.61 05/31/05 01/01/65 12/31/95 11/322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outfloo 25.2 2.1 12.4 197.9 27419.3 138.5
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume	days km2 cm/d cm/d hm3/yr kg/yr ppb hm3/yr	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ \end{array}$	2.61 05/31/05 01/01/65 12/31/95 11/322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2	4.97 05/31/05 01/01/65 12/31/95 11/322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0	5.94 05/31/05 01/01/65 12/31/95 11/322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflor 25.2 2.1 12.4 197.9 27419.3 138.5 225.7
Starting Date for Simulation Starting Date for Output Ending Date or Output Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Volume Inflow Conc Treated Outflow Volume Treated Outflow Load	- days cm/d cm/d hm3/yr kg/yr ppb hm3/yr	05/31/05 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4 \end{array}$	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3	4.29 05/31/05 01/01/65 12/31/95 11322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2 554.0	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8	5.94 05/31/05 01/01/65 12/31/95 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflor 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2991.5
Starting Date for Simulation Starting Date for Output Ending Date for Output Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc	days km2 cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5 81.4	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ \end{array}$	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2	4.29 05/31/05 01/01/65 12/31/95 11322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2 554.0 13.1	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3	5.94 05/31/05 01/01/65 12/31/95 11/322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflor 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2991.5 13.3
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Trotal Outflow Volume	days km2 cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5 81.4 90.6	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ 41.0\\ 3254.4\\ \end{array}$	2.61 05/31/05 01/01/65 12/31/95 11/322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2 106.7	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2 554.0 13.1 42.2	4.97 05/31/05 01/01/65 12/31/95 11/322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3 80.0	5,94 05/31/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4 76.8	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflo 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2991.5 13.3 225.7
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Volume Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume Total Outflow Load	days km2 cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5 81.4 90.6 7379.5 81.4	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 12/31/95\\ 12/31/95\\ 2\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ 41.0\\ 3254.4\\ 79.5\\ \end{array}$	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2 106.7 1410.3 13.2	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2 554.0 13.1 42.2 554.0 13.1	4.97 05/31/05 01/01/65 12/31/95 12/31/95 1322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3 80.0 7379.8 92.3	5.94 05/31/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4 76.8	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflo 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2991.5 13.3 225.7 2991.5 13.3
Starting Date for Simulation Starting Date for Output Ending Date for Output Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume Total FVM Outflow Conc Bypass Volume	days km2 cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5 81.4 90.6 7379.5 81.4 0.00	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ 41.0\\ 3254.4\\ 79.5\\ 0.00\\ \end{array}$	2.61 05/31/05 01/01/65 12/31/95 11/322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2 106.7 1410.3 13.2 106.7	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2 554.0 13.1 42.2 554.0 13.1 0.00	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3 80.0 7379.8 92.3 0.00	5.94 05/31/05 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4 76.8 1027.2 13.4 76.8	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflor 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2991.5 13.3 225.7 2991.5 13.3 0.00
Starting Date for Simulation Starting Date for Output Ending Date for Output Call babel Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Load Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Treated Outflow Volume Treated FVM Outflow Conc Total Outflow Load Total Outflow Load Total Outflow Load Total IFVM Outflow Conc Bypass Volume Bypass Load	days km2 cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5 81.4 90.6 7379.5 81.4 90.6	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ 41.0\\ 3254.4\\ 79.5\\ 0.00\\ 0.00\\ 0.00\\ \end{array}$	2.61 05/31/05 01/01/65 12/31/95 11/322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2 106.7 1410.3 13.2 0.00 0.00	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 1.0 000 0.00	4.97 05/31/05 01/01/65 12/31/95 11/322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3 80.0 7379.8 92.3 80.0 7379.8	5.94 05/31/05 01/01/65 12/31/95 11/322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4 76.8 1027.2 13.4 76.8	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflor - 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2991.5 13.3 225.7 2991.5 13.3 0.00 0.00
Starting Date for Simulation Starting Date for Output Ending Date for Output Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Volume Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume Total Outflow Volume Total Outflow Volume Total Outflow Load Total FWM Outflow Conc Bypass Volume Bypass Conc	- days cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr	$\begin{array}{c} 05/31/05\\ 01/01/65\\ 01/01/65\\ 12/31/95\\ 11322\\ 1\\ 3\\ 3.015\\ 7.0\\ 40.4\\ 77.2\\ 10693.5\\ 138.5\\ 90.6\\ 7379.5\\ 81.4\\ 90.6\\ 7379.5\\ 81.4\\ 0.06\\ 0.00\\ 0.0\\ 0.0\end{array}$	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 12/31/95\\ 12/31/95\\ 1322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ 41.0\\ 3254.4\\ 79.5\\ 0.00\\ 0.00\\ 0.0\\ 0.0\end{array}$	2.61 05/31/05 01/01/65 12/31/95 12/31/95 1322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2 106.7 1410.3 13.2 0.00 0.00 0.0	4,29 05/31/05 01/01/65 12/31/95 12/31/95 11322 4 0Utflow 2,914 3,8 23,3 41.0 3254,4 79.5 42.2 554.0 13.1 42.2 554.0 13.1 0.00 0.00 0.0	4.97 05/31/05 01/01/65 12/31/95 12/31/95 1322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3 80.0 7379.8 92.3 80.0 7379.8	5.94 05/31/05 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4 76.8 1027.2 13.4 0.00 0.00 0.0	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflo 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2291.5 13.3 225.7 2991.5 13.3 0.00 0.00 0.0
Starting Date for Simulation Starting Date for Output Ending Date for Output Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Volume Treated Outflow Volume Treated Outflow Volume Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Load Total IFVM Outflow Conc Bypass Volume Bypass Load	days km2 cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5 81.4 90.6 7379.5 81.4 0.00 0.00 0.00 0%	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ 41.0\\ 3254.44\\ 79.5\\ 41.0\\ 3254.4\\ 79.5\\ 0.00\\ 0.00\\ 0.00\\ 0.0\\ 0\%\end{array}$	2.61 05/31/05 01/01/65 12/31/95 11/322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2 106.7 1410.3 13.2 0.00 0.00 0.00 0%	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2 554.0 13.1 42.2 554.0 13.1 0.00 0.00 0.00 0%	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3 80.0 7379.8 92.3 80.0 7379.8 92.3 0.00 0.00 0.00 0%	5,94 05/31/05 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4 76.8 1027.2 13.4 76.8 1027.2 13.4 0.00 0.00 0.0	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflor 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2991.5 13.3 225.7 2991.5 13.3 2000 0.00 0.00 0.00 0.00
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Load Total Outflow Load Total FWM Outflow Conc Bypass Volume Bypass Load Bypass Load Bypass Load Surface Outflow Load Reduc	days km2 cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5 81.4 90.6 7379.5 81.4 90.6 7379.5 81.4 0.00 0.00 0.00 0.00 0.00 0% 31.0%	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ 41.0\\ 3254.4\\ 79.5\\ 0.00\\ 3254.4\\ 79.5\\ 0.00\\ 0.00\\ 0.00\\ 0.0\\ 0.0\\ 0.0\\ 0.0$	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2 106.7 1410.3 13.2 0.00 0.00 0.00 0% 80.9%	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 8 42.2 554.0 13.1 8 42.2 554.0 13.1 8 42.2 554.0 13.1 8 42.2 554.0 13.1 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3 80.0 7379.8 92.3 80.0 7379.8 92.3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	5,94 05/31/05 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4 76.8 1027.2 13.4 76.8 1027.2 13.4 76.8	5.94 05/31/05 01/01/65 12/31/95 Total Outflor - 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2991.5 13.3 225.7 2991.5 13.3 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Starting Date for Simulation Starting Date for Output Ending Date for Output Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Volume Inflow Volume Inflow Volume Treated Outflow Volume Treated Outflow Load Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume Total Outflow Load Total FVM Outflow Conc Bypass Volume Bypass Load Bypass Load Bypass Load Surface Outflow Load Reduc Outflow Geometric Mean - Daily	days km2 cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5 81.4 90.6 7379.5 81.4 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 01/01/65\\ 12/31/95\\ 12/31/95\\ 12/322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ 41.0\\ 3254.4\\ 79.5\\ 0.00\\ 0.00\\ 0.0\\ 0\%\\ 40.7\%\\ 71.9\end{array}$	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2 106.7 1410.3 13.2 0.00 0.00 0.0 0% 80.9% 9.8	4,29 05/31/05 01/01/65 12/31/95 12/31/95 11322 4 0Utflow 2,914 3,8 23,3 41.0 3254,4 79.5 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 0.00 0.00 0.0 0% 83.0% 7.3	4,97 05/31/05 01/01/65 12/31/95 12/31/95 1322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3 80.0 7379.8 92.3 80.0 7379.8 92.3 0.00 0.00 0.00 0.00 0.0 0.0 0.0 0.0 0	5.94 05/31/05 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4 76.8 1027.2 13.4 76.8 1027.2 13.4 0.00 0.00 0.0 86.1% 7.7	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflov 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2291.5 13.3 225.7 2291.5 13.3 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Surface Area Mean Water Load Max Water Load Inflow Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Load Total Outflow Load Total FWM Outflow Conc Bypass Volume Bypass Load Bypass Load Bypass Load Surface Outflow Load Reduc	days km2 cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr	05/31/05 01/01/65 01/01/65 12/31/95 11322 1 3 3.015 7.0 40.4 77.2 10693.5 138.5 90.6 7379.5 81.4 90.6 7379.5 81.4 90.6 7379.5 81.4 0.00 0.00 0.00 0.00 0.00 0% 31.0%	$\begin{array}{c} 1.45\\ 05/31/05\\ 01/01/65\\ 12/31/95\\ 11322\\ 2\\ 4\\ 1.906\\ 5.7\\ 32.8\\ 39.6\\ 5483.9\\ 138.5\\ 41.0\\ 3254.4\\ 79.5\\ 41.0\\ 3254.4\\ 79.5\\ 0.00\\ 3254.4\\ 79.5\\ 0.00\\ 0.00\\ 0.00\\ 0.0\\ 0.0\\ 0.0\\ 0.0$	2.61 05/31/05 01/01/65 12/31/95 11322 3 Outflow 5.85 4.2 22.4 90.6 7379.5 81.4 106.7 1410.3 13.2 106.7 1410.3 13.2 0.00 0.00 0.00 0% 80.9%	4.29 05/31/05 01/01/65 12/31/95 11/322 4 Outflow 2.914 3.8 23.3 41.0 3254.4 79.5 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 42.2 554.0 13.1 8 42.2 554.0 13.1 8 42.2 554.0 13.1 8 42.2 554.0 13.1 8 42.2 554.0 13.1 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14	4.97 05/31/05 01/01/65 12/31/95 11322 5A 5B 2.274 9.8 56.3 81.2 11241.9 138.5 80.0 7379.8 92.3 80.0 7379.8 92.3 80.0 7379.8 92.3 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	5,94 05/31/05 01/01/65 12/31/95 11322 5B Outflow 9.279 2.4 14.5 80.0 7379.8 92.3 76.8 1027.2 13.4 76.8 1027.2 13.4 76.8 1027.2 13.4 76.8	5.94 05/31/05 01/01/65 12/31/95 11322 Total Outflow 25.2 2.1 12.4 197.9 27419.3 138.5 225.7 2991.5 13.3 225.7 2991.5 13.3 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Contract CN040912-W004 Phase 2, Task 1.4 Dev't of Methodology for TP Concentrations B-3





# Table B.4 Results of DMSTA 2002 Analysis, STA-1W Existing Design (Baseline 2007-2056) – with 31-yr Monthly Average TP Concentrations

Input Variable	Units	Value	Case Descripti	ion-	Filename:	1W_baseline_	AMC Data vis	
Design Case Name	-	Baseline			rgent & Cell 4 &			1
Starting Date for Simulation	-	01/01/65	Monthly Inflov					
Ending Date for Simulation	-	12/31/95						
Starting Date for Output	-	01/01/65						
Steps Per Day	-	3	Output Varial	ole		Units	Value	
Number of Iterations	-	2	Water Balance			%	0.0%	
Output Averaging Interval	days	7	Mass Balance			%	0.1%	
Reservoir H2O Residence Time	days	0		c - With Bypass		ppb	24.2	
Max Inflow / Mean Inflow		0		c - Without Byp		ppb	24.2	
Max Reservoir Storage	hm3	0	Geometric Me		400	ppb	24.0	
Reservoir P Decay Rate	1/yr/ppb	0	95th Percentile			ppb	30.4	
Rainfall P Conc		10						
	ppb		Freq Cell Outf	iow > 10 ppb		%	45%	
Atmospheric P Load (Dry)	mg/m2-yr	20	Bypass Load	•		%	0.0%	
Cell Number>		1	2	3	4	5	<u>6</u>	7
Cell Label	-	1	2	3	4	5A	5B	
Vegetation Type	>	EMERG	EMERG	EMERG	SAV_C4	EMERG	SAV_C4	
Inflow Fraction	-	0.25	0.25	0	0	0.5	0	
Downstream Cell Number	-	3	4	0	0	6	0	
Surface Area	km2	6.030	3.808	2.833	1.012	2.274	9.279	
Mean Width of Flow Path	km	1.10	1.74	2.48	1.83	1.78	2.34	
Number of Tanks in Series	-	2	2	2	2	2	3	
Outflow Control Depth	cm	55	67	46	60	60	60	
Outflow Coefficient - Exponent	-	2.35	2.51	2.5	2.5	2.49	2.25	
Outflow Coefficient - Intercept	-	1.24	1.38	1.03	1.28	2.75	3.78	
Bypass Depth	cm	0	0	0	0	0	0	
Maximum Inflow	hm3/day	0	0	õ	ő	Ő	0	
Maximum Outflow	hm3/day	0	0	0	0	0	0	
Inflow Seepage Rate	(cm/d) / cm	0.01038	0.00547	0.00676	0.00485	0	0	
	cm	183	101	163	82	0	0	
Inflow Seepage Control Elev Inflow Seepage Conc		20	20	20	20	20	20	
	ppb							
Outflow Seepage Rate	(cm/d) / cm	0.00346	0	0.00173	0	0.01577	0.00496	
Outflow Seepage Control Elev	cm	43	0	40	0	-46	-46	
Max Outflow Seepage Conc	ppb	20	20	20	20	20	20	
Seepage Recycle Fraction	-	0	0	0	0	0.91	0.8	
Seepage Discharge Fraction	-	0	0	0	0	0	0	
Initial Water Column Conc	ppb	30	30	30	30	30	30	
Initial P Storage Per Unit Area	mg/m2	500	500	500	500	500	500	
Initial Water Column Depth	cm	50	50	50	50	50	50	
C0 = WC Conc at 0 g/m2 P Storage	ppb	4	4	4	4	4	4	
C1 = WC Conc at 1 g/m2 P storage	ppb	22	22	22	22	22	22	
K = Net Settling Rate at Steady State	m/yr	16	16	15.66	80.10	15.66	80.10	
Zx = Depth Scale Factor	cm	60	60	60	60	60	60	
C0 - Periphyton	ppb	0	0	0	0	0	0	
C1 - Periphyton	ppb	0	0	0	0	0	0	
K - Periphyton	1/yr	0.00	0.00	0.00	0.00	0.00	0.00	
Zx - Periphyton		0	0	0	0	0	0	
	cm	0	0	0	0	0	0	
Sm = Transition Storage Midpoint	mg/m2	-						
Sb = Transition Storage Bandwidth	mg/m2	0	0	0	0	0	0	1
Output Variables	Units	<u>1</u>	2	<u>3</u>	4	<u>5</u>	<u>6</u>	Overa
Execution Time	seconds/yr	0.90	1.58	2.26	2.94	3.61	4.52	4.52
Run Date		05/31/05	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05	05/31/
Starting Date for Simulation	-	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/
Starting Date for Output	-	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/
Ending Date	-	12/31/95	12/31/95	12/31/95	12/31/95	12/31/95	12/31/95	12/31/
Output Duration	days	11322	11322	11322	11322	11322	11322	1132
Cell Label		1	2	3	4	5A	5B	Total Ou
Downstream Cell Label								
Surface Area		3	4	Outflow	Outflow	5B	Outflow	-
Ourrade Area	km2						Outflow 9.279	- 25.2
Mean Water Load	km2 cm/d	3	4	Outflow	Outflow	5B		
		3 6.030	4 3.808	Outflow 2.833	Outflow 1.012	5B 2.274	9.279	2.1
Mean Water Load	cm/d	3 6.030 2.2	4 3.808 3.6	Outflow 2.833 7.4	Outflow 1.012 14.1	5B 2.274 11.9	9.279 2.9	2.1 12.4
Mean Water Load Max Water Load	cm/d cm/d hm3/yr	3 6.030 2.2 12.9	4 3.808 3.6 20.5	Outflow 2.833 7.4 31.5	Outflow 1.012 14.1 89.5	5B 2.274 11.9 68.6	9.279 2.9 17.8	2.1 12.4 197.
Mean Water Load Max Water Load Inflow Volume	cm/d cm/d hm3/yr kg/yr	3 6.030 2.2 12.9 49.5 6854.8	4 3.808 3.6 20.5 49.5 6854.8	Outflow 2.833 7.4 31.5 77.1 3309.9	Outflow 1.012 14.1 89.5 52.2 3239.5	5B 2.274 11.9 68.6 99.0 13709.6	9.279 2.9 17.8 97.8 9538.4	2.1 12.4 197. 27419
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc	cm/d cm/d hm3/yr kg/yr ppb	3 6.030 2.2 12.9 49.5 6854.8 138.5	4 3.808 3.6 20.5 49.5 6854.8 138.5	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0	Outflow 1.012 14.1 89.5 52.2 3239.5 62.0	5B 2.274 11.9 68.6 99.0 13709.6 138.5	9.279 2.9 17.8 97.8 9538.4 97.5	2.1 12.4 197. 27419 138.
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume	cm/d cm/d hm3/yr kg/yr ppb hm3/yr	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1	4 3.808 3.6 20.5 49.5 6854.8 138.5 52.2	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0	Outflow 1.012 14.1 89.5 52.2 3239.5 62.0 52.6	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8	9.279 2.9 17.8 97.8 9538.4 97.5 94.6	2.1 12.4 197. 27419 138. 232.
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load	cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9	4 3.808 3.6 20.5 49.5 6854.8 138.5 52.2 3239.5	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2	Outflow 1.012 14.1 89.5 52.2 3239.5 62.0 52.6 1590.6	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2	2.1 12.4 197. 27419 138. 232. 5624
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc	cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0	4 3.808 3.6 20.5 49.5 6854.8 138.5 52.2 3239.5 62.0	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8	Outflow 1.012 14.1 89.5 52.2 3239.5 62.0 52.6 1590.6 30.2	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0	2.1 12.4 197. 27419 138. 232. 5624 24.2
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume	cm/d cm/d hm3/yr kg/yr pb hm3/yr kg/yr pb hm3/yr	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1	4 3.808 3.6 20.5 49.5 6854.8 138.5 52.2 3239.5 62.0 52.2	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0	Outflow 1.012 14.1 89.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5 97.8	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0 94.6	2.1 12.4 197. 27419 138. 232. 5624 24.2 232.
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume Total Outflow Load	cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1 3309.9	4 3.808 3.6 20.5 49.5 6854.8 138.5 52.2 3239.5 62.0 52.2 3239.5	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0 2616.2	Outflow 1.012 14.1 89.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6 1590.6	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5 97.8 9538.4	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0 94.6 1417.2	2.1 12.4 197. 27419 138. 232. 5624 24.2 232. 5624
Mean Water Load Max Water Load Inflow Volume Inflow Cond Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Load Total Outflow Load Total FWM Outflow Conc	cm/d cm/d hm3/yr kg/yr pb hm3/yr kg/yr kg/yr kg/yr pb	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1 3309.9 43.0	4 3.808 3.6 20.5 49.5 6854.8 138.5 52.2 3239.5 62.0 52.2 3239.5 62.0	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0 2616.2 30.8	Outflow 1.012 14.1 88.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6 1590.6 30.2 52.6 1590.6 30.2	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5 97.8 9538.4 97.5	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0 94.6 1417.2 15.0	2.1 12.4 197. 27419 138. 232. 5624 24.2 232. 5624 24.2 2524
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume Total Outflow Load Total FWM Outflow Conc Bypass Volume	cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr ppb hm3/yr	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1 3309.9 43.0 0.00	4 3.808 3.6 20.5 49.5 6854.8 138.5 52.2 3239.5 62.0 52.2 3239.5 62.0 0.00	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0 2616.2 30.8 85.0 2616.2 30.8	Outflow 1.012 14.1 89.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6 1590.6 30.2 0.00	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5 97.8 9538.4 97.5 0.00	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0 94.6 1417.2 15.0 0.00	2.1 12.4 197. 27419 138. 232. 5624 24.2 5624 24.2 5624 24.2 0.00
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume Total Outflow Load Total FWM Outflow Conc Bypass Volume Bypass Load	cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1 3309.9 43.0 0.00 0.00	4 3.808 3.6 20.5 49.5 6854.8 138.5 52.2 3239.5 62.0 52.2 3239.5 62.0 52.2 3239.5 62.0 0.00 0.00	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0 2616.2 30.8 0.00 0.00	Outflow 1.012 14.1 88.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6 1590.6 30.2 52.6 1590.6 30.2 0.00 0.00	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5 97.8 9538.4 97.5 9538.4 97.5 0.00 0.00	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0 94.6 1417.2 15.0 0.00 0.00	2.1 12.4 197. 27419 138. 232. 5624 24.2 232. 5624 24.2 0.00 0.00
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume Total Outflow Load Total FWM Outflow Conc Bypass Volume Bypass Load Bypass Conc	cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1 3309.9 43.0 0.00 0.00 0.00	$\begin{array}{c} 4\\ 3.808\\ 3.6\\ 20.5\\ 49.5\\ 6854.8\\ 138.5\\ 52.2\\ 3239.5\\ 62.0\\ 52.2\\ 3239.5\\ 62.0\\ 0.00\\ 0.00\\ 0.00\\ 0.0\end{array}$	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0 2616.2 30.8 0.00 2616.2 30.8	Outflow 1.012 14.1 88.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6 1590.6 30.2 0.00 0.00 0.00 0.0	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5 97.8 9538.4 97.5 9538.4 97.5 0.00 0.00 0.00	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0 94.6 1417.2 15.0 0.00 0.00 0.00	2.1 12.4 197. 27419 138. 232. 5624 24.2 232. 5624 24.2 232. 5624 24.2 0.00 0.00
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Load Total Outflow Load Total FWM Outflow Conc Bypass Volume Bypass Load Bypass Load	cm/d cm//d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1 3309.9 43.0 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{c} 4\\ 3.808\\ 3.6\\ 20.5\\ 49.5\\ 6854.8\\ 138.5\\ 52.2\\ 3239.5\\ 62.0\\ 52.2\\ 3239.5\\ 62.0\\ 0.00\\ 0.00\\ 0.00\\ 0.0\\ 0\%\end{array}$	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0 2616.2 30.8 85.0 2616.2 30.8 0.00 0.00 0.00 0%	Outflow 1.012 14.1 89.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6 1590.6 30.2 52.6 1590.6 30.2 0.00 0.00 0.00 0%	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5 97.8 9538.4 97.5 0.00 0.00 0.00 0,00	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0 94.6 1417.2 15.0 0.00 0.00 0.00 0.0	2.1 12. 197. 27419 138. 232. 5624 24. 232. 5624 24. 24. 0.00 0.00 0.00
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Volume Total Outflow Load Total FWM Outflow Conc Bypass Volume Bypass Load Bypass Conc	cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1 3309.9 43.0 0.00 0.00 0.00	$\begin{array}{c} 4\\ 3.808\\ 3.6\\ 20.5\\ 49.5\\ 6854.8\\ 138.5\\ 52.2\\ 3239.5\\ 62.0\\ 52.2\\ 3239.5\\ 62.0\\ 0.00\\ 0.00\\ 0.00\\ 0.0\end{array}$	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0 2616.2 30.8 0.00 2616.2 30.8	Outflow 1.012 14.1 88.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6 1590.6 30.2 0.00 0.00 0.00 0.0	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5 97.8 9538.4 97.5 9538.4 97.5 0.00 0.00 0.00	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0 94.6 1417.2 15.0 0.00 0.00 0.00	2.1 12. 197. 27419 138. 232. 5624 24. 232. 5624 24. 24. 0.00 0.00 0.00
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Load Total Outflow Load Total FWM Outflow Conc Bypass Volume Bypass Load Bypass Load	cm/d cm//d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1 3309.9 43.0 0.00 0.00 0.00 0.00 0.00 0.00	$\begin{array}{c} 4\\ 3.808\\ 3.6\\ 20.5\\ 49.5\\ 6854.8\\ 138.5\\ 52.2\\ 3239.5\\ 62.0\\ 52.2\\ 3239.5\\ 62.0\\ 0.00\\ 0.00\\ 0.00\\ 0.0\\ 0\%\end{array}$	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0 2616.2 30.8 85.0 2616.2 30.8 0.00 0.00 0.00 0%	Outflow 1.012 14.1 89.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6 1590.6 30.2 52.6 1590.6 30.2 0.00 0.00 0.00 0%	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.5 97.8 9538.4 97.5 0.00 0.00 0.00 0,00	9.279 2.9 17.8 97.8 9538.4 97.5 94.6 1417.2 15.0 94.6 1417.2 15.0 0.00 0.00 0.00 0.0	2.1 12.4 197. 27415 138. 232. 5624 24.2 232. 5624 24.2 0.00 0.00 0.00 0.00 0.00 0.00 0.
Mean Water Load Max Water Load Inflow Volume Inflow Load Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Total Outflow Load Total Outflow Load Total Outflow Conc Bypass Volume Bypass Load Bypass Load Suprace Outflow Load Reduc	cm/d cm/d hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr kg/yr ppb	3 6.030 2.2 12.9 49.5 6854.8 138.5 77.1 3309.9 43.0 77.1 3309.9 43.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	4 3.808 3.6 20.5 49.5 6854.8 138.5 52.2 3239.5 62.0 52.2 3239.5 62.0 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Outflow 2.833 7.4 31.5 77.1 3309.9 43.0 85.0 2616.2 30.8 85.0 2616.2 30.8 85.0 2616.2 30.8 0.00 0.00 0.00 0.00 0.00 0% 21.0%	Outflow 1.012 14.1 88.5 52.2 3239.5 62.0 52.6 1590.6 30.2 52.6 1590.6 30.2 52.6 1590.6 30.2 0.00 0.00 0.00 0.00 0% 50.9%	5B 2.274 11.9 68.6 99.0 13709.6 138.5 97.8 9538.4 97.8 9538.4 97.5 97.8 9538.4 97.5 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	9.279 2.9 17.8 9538.4 9538.4 97.5 94.6 1417.2 15.0 94.6 1417.2 15.0 0.00 0.00 0.00 0.0 0.0 85.1%	25.2 2.1 12.4 197.3 27419 138.5 232.2 5624. 24.2 232.2 5624. 24.2 232.2 5624. 24.2 24.2 24.2 24.2 24.2 24.2 24.2

Contract CN040912-WO04 Phase 2, Task 1.4 Dev't of Methodology for TP Concentrations





# Table B.5 Results of DMSTA 2002 Analysis, STA-1W, Alternative 1 – with 31-yr Monthly Average TP Concentrations

Input Variable	Units	Value	Case Descript	ion:	Filename:	1W_Alt1_AMC	Data vis	
Design Case Name	-	Alt 1		s 1,2 & 5AEme				1
Starting Date for Simulation	-	01/01/65	Alternative 1					
Ending Date for Simulation	-	12/31/95	Monthly Inflow	w Data				
Starting Date for Output	-	01/01/65	Output Varial	ble		Units	Value	1
Steps Per Day Number of Iterations	1	3 2	Water Balance			%	0.0%	
Output Averaging Interval	days	7	Mass Balance			%	0.1%	
Reservoir H2O Residence Time	days	0		nc - With Bypass	5	ppb	18.6	
Max Inflow / Mean Inflow	-	0	Flow-Wtd Cor	nc - Without Byp	ass	ppb	18.6	
Max Reservoir Storage	hm3	0	Geometric Me			ppb	13.5	
Reservoir P Decay Rate	1/yr/ppb	0	95th Percentil			ppb	22.5	
Rainfall P Conc	ppb	10 20	Freq Cell Outf	low > 10 ppb		%	45%	
Atmospheric P Load (Dry) Cell Number>	mg/m2-yr	1	Bypass Load	<u>3</u>	4	5 5	0.0% <u>6</u>	
Cell Label	-	1	2	3	4	5A	5B	1
Vegetation Type	>	EMERG	EMERG	SAV_C4	SAV_C4	EMERG	SAV_C4	
Inflow Fraction	-	0.25	0.25	0	0	0.5	0	
Downstream Cell Number	-	3	4	0	0	6	0	
Surface Area	km2	6.030	3.808	2.833	1.012	2.274	9.279	
Mean Width of Flow Path Number of Tanks in Series	km -	1.10 2	1.74 2	2.48 2	1.83 2	1.78 2	2.34 3	
Outflow Control Depth	- cm	55	67	46	60	60	60	
Outflow Coefficient - Exponent	-	2.35	2.51	2.5	2.5	2.49	2.25	
Outflow Coefficient - Intercept	-	1.24	1.38	1.03	1.28	2.75	3.78	
Bypass Depth	cm	0	0	0	0	0	0	
Maximum Inflow	hm3/day	0	0	0	0	0	0	
Maximum Outflow Inflow Seepage Rate	hm3/day	0 0.01038	0 0.00547	0 0.00676	0 0.00485	0	0	
Inflow Seepage Rate Inflow Seepage Control Elev	(cm/d) / cm cm	183	0.00547	163	0.00485	0	0	
Inflow Seepage Conc	ppb	20	20	20	20	20	20	
Outflow Seepage Rate	(cm/d) / cm	0.00346	0	0.00173	0	0.01577	0.00496	
Outflow Seepage Control Elev	cm	43	0	40	0	-46	-46	
Max Outflow Seepage Conc	ppb	20	20	20	20	20	20	
Seepage Recycle Fraction	-	0	0	0	0	0.91	0.8	
Seepage Discharge Fraction Initial Water Column Conc	-	0 30	0 30	0 30	0 30	0 30	0 30	
Initial P Storage Per Unit Area	ppb mg/m2	500	500	500	500	500	500	
Initial Water Column Depth	cm	50	50	50	50	50	50	
C0 = WC Conc at 0 g/m2 P Storage	ppb	4	4	4	4	4	4	
C1 = WC Conc at 1 g/m2 P storage	ppb	22	22	22	22	22	22	
K = Net Settling Rate at Steady State	m/yr	16	16	80.10	80.10	15.66	80.10	
Zx = Depth Scale Factor C0 - Periphyton	cm ppb	60 0	60 0	60 0	60 0	60 0	60 0	
C1 - Periphyton	ppb	0	0	0	0	0	0	
K - Periphyton	1/yr	0.00	0.00	0.00	0.00	0.00	0.00	
Zx - Periphyton	cm	0	0	0	0	0	0	
Sm = Transition Storage Midpoint	mg/m2	0	0	0	0	0	0	
Sb = Transition Storage Bandwidth	mg/m2	0	0	0	0	0	0	J
Output Variables	Units	<u>1</u>	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	Overall
Execution Time	seconds/yr	0.81	1.45	2.13	2.77	3.48	4.39	4.39
Run Date	-	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05	05/31/05
Starting Date for Simulation	-	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65
Starting Date for Output	-	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65
Ending Date Output Duration	days	12/31/95 11322						
Cell Label	aayo	1	2	3	4	5A	5B	Total Outflow
Downstream Cell Label		3	4	Outflow	Outflow	5B	Outflow	-
Surface Area	km2	6.030	3.808	2.833	1.012	2.274	9.279	25.2
Mean Water Load	cm/d	2.2	3.6	7.4	14.1	11.9	2.9	2.1
Max Water Load Inflow Volume	cm/d	12.9 49.5	20.5 49.5	31.5 77.1	89.5 52.2	68.6 99.0	17.8 97.8	12.4 197.9
Inflow Load	hm3/yr kg/yr	49.5 6854.8	49.5 6854.8	3309.9	52.2 3239.5	99.0 13709.6	97.8 9538.4	27419.3
Inflow Conc	ppb	138.5	138.5	43.0	62.0	138.5	97.5	138.5
Treated Outflow Volume	hm3/yr	77.1	52.2	85.0	52.6	97.8	94.6	232.2
Treated Outflow Load	kg/yr	3309.9	3239.5	1320.6	1590.6	9538.4	1417.2	4328.4
Treated FWM Outflow Conc	ppb	43.0	62.0	15.5	30.2	97.5	15.0	18.6
Total Outflow Volume Total Outflow Load	hm3/yr	77.1	52.2	85.0 1220 6	52.6 1590.6	97.8	94.6	232.2 4328.4
Total FWM Outflow Conc	kg/yr ppb	3309.9 43.0	3239.5 62.0	1320.6 15.5	1590.6 30.2	9538.4 97.5	1417.2 15.0	4328.4 18.6
Bypass Volume	hm3/yr	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bypass Load	kg/yr	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bypass Conc	ppb	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bypass Load	%	0%	0%	0%	0%	0%	0.0	0%
Surface Outflow Load Reduc	%	51.7%	52.7%	60.1%	50.9%	30.4%	85.1%	84.2%
Outflow Geometric Mean - Daily Outflow Geo Mean - Composites	ppb	39.2 39.6	55.6 56.1	12.8 13.1	21.7 22.7	90.0 91.8	8.8 9.3	12.9 13.5
Frequency Outflow Conc > 10 ppb	ppb %	100%	100%	100%	100%	100%	100%	86%

Contract CN040912-W004 Phase 2, Task 1.4 Dev't of Methodology for TP Concentrations B-5





# Table B.6 Results of DMSTA 2002 Analysis, STA-1W Existing Design, Alternative 2 – with 31-yr Monthly Average TP Concentrations

Input Variable	<u>Units</u>	Value	Case Descript	ion:	Filename:	1W Alt2 AMC	Data xis	
Design Case Name	-	Alt 2			ergent & Cell 3,4			1
Starting Date for Simulation	-	01/01/65	Alternative 2		Monthly Inflow I			
Ending Date for Simulation	-	12/31/95	Redistributed	inflows Balan	ced Outflow Cor	ncentrations		
Starting Date for Output	-	01/01/65			ease Cell 3 Area			
Steps Per Day	-	3	Output Varia			Units	Value	
Number of Iterations	-	2	Water Balance			%	0.0%	
Output Averaging Interval Reservoir H2O Residence Time	days days	7 0	Mass Balance	ic - With Bypass		% ppb	0.1% 13.2	
Max Inflow / Mean Inflow	uays -	0		ic - Without Byp		ppb	13.2	
Max Reservoir Storage	hm3	Ő	Geometric Me			ppb	9.3	
Reservoir P Decay Rate	1/yr/ppb	0	95th Percentil			ppb	16.8	
Rainfall P Conc	ppb	10	Freq Cell Outf	low > 10 ppb		%	40%	
Atmospheric P Load (Dry)	mg/m2-yr	20	Bypass Load			%	0.0%	
Cell Number>		1	2	3	4	5	<u>6</u>	-
Cell Label	-	1 EMERG	2 EMERG	3 SAV C4	4 SAV C4	5A EMERG	5B	
Vegetation Type Inflow Fraction	>	0.39	0.2	0 SAV_C4	0 SAV_C4	0.41	SAV_C4 0	
Downstream Cell Number	1	3	4	0	0	6	0	
Surface Area	km2	3.015	1.906	5.850	2.914	2.274	9.279	
Mean Width of Flow Path	km	1.10	1.74	2.48	1.83	1.78	2.34	
Number of Tanks in Series	-	2	2	4	6	2	3	
Outflow Control Depth	cm	55	67	46	60	60	60	
Outflow Coefficient - Exponent	-	2.35	2.51	2.5	2.5	2.49	2.25	
Outflow Coefficient - Intercept	-	1.24	1.38	1.03	1.28	2.75	3.78	
Bypass Depth Maximum Inflow	cm hm3/day	0	0	0	0	0	0	
Maximum Outflow	hm3/day	0	0	0	0	0	0	
Inflow Seepage Rate	(cm/d) / cm	0.01038	0.00547	0.00676	0.00485	Ő	0 0	
Inflow Seepage Control Elev	cm	183	101	163	82	0	0	
Inflow Seepage Conc	ppb	20	20	20	20	20	20	
Outflow Seepage Rate	(cm/d) / cm	0.00346	0	0.00173	0	0.01577	0.00496	
Outflow Seepage Control Elev	cm	43	0	40	0	-46	-46	
Max Outflow Seepage Conc	ppb	20	20	20	20	20	20	
Seepage Recycle Fraction	-	0	0	0	0	0.91 0	0.8 0	
Seepage Discharge Fraction Initial Water Column Conc	- ppb	30	30	30	30	30	30	
Initial P Storage Per Unit Area	mg/m2	500	500	500	500	500	500	
Initial Water Column Depth	cm	50	50	50	50	50	50	
C0 = WC Conc at 0 g/m2 P Storage	ppb	4	4	4	4	4	4	
C1 = WC Conc at 1 g/m2 P storage	ppb	22	22	22	22	22	22	
K = Net Settling Rate at Steady State	m/yr	16	16	80.10	80.10	15.66	80.10	
Zx = Depth Scale Factor	cm	60	60	60	60	60	60	
C0 - Periphyton C1 - Periphyton	ppb ppb	0 0	0	0	0 0	0 0	0 0	
K - Periphyton	1/yr	0.00	0.00	0.00	0.00	0.00	0.00	
Zx - Periphyton	cm	0	0	0	0	0	0	
Sm = Transition Storage Midpoint	mg/m2	0	0	0	0	0	0	
Sb = Transition Storage Bandwidth	mg/m2	0	0	0	0	0	0	
- · · · · · · · ·				-		_		
Output Variables Execution Time	<u>Units</u>	<u>1</u> 0.71	<u>2</u> 1.35	<u>3</u> 2.61	<u>4</u> 4.39	<u>5</u> 5.06	<u>6</u> 5.97	Overall 5.97
Run Date	seconds/yr	05/31/05	05/31/05	2.61	4.39 05/31/05	05/31/05	5.97 05/31/05	05/31/05
Starting Date for Simulation	_	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65
Starting Date for Output	-	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65
Ending Date	-	12/31/95	12/31/95	12/31/95	12/31/95	12/31/95	12/31/95	12/31/95
Output Duration	days	11322	11322	11322	11322	11322	11322	11322
Cell Label		1	2	3	4	5A	5B	Total Outflow
Downstream Cell Label	km2	3	4	Outflow	Outflow 2.914	5B	Outflow	- 25.2
Surface Area Mean Water Load	cm/d	3.015 7.0	1.906 5.7	5.85 4.2	2.914	2.274 9.8	9.279 2.4	25.2
Max Water Load	cm/d	40.4	32.8	22.4	23.3	56.3	14.5	12.4
Inflow Volume	hm3/yr	77.2	39.6	90.6	41.0	81.2	80.0	197.9
Inflow Load	kg/yr	10693.5	5483.9	7351.5	3237.8	11241.9	7331.7	27419.3
Inflow Conc	ppb	138.5	138.5	81.1	79.1	138.5	91.7	138.5
Treated Outflow Volume	hm3/yr	90.6	41.0	106.7	42.2	80.0	76.8	225.7
Treated Outflow Load	kg/yr	7351.5	3237.8	1406.2	551.7	7331.7	1019.9	2977.8
Treated FWM Outflow Conc Total Outflow Volume	ppb hm3/yr	81.1 90.6	79.1 41.0	13.2 106.7	13.1 42.2	91.7 80.0	13.3 76.8	13.2 225.7
Total Outflow Load	kg/yr	90.6 7351.5	3237.8	1406.2	42.2 551.7	7331.7	1019.9	225.7 2977.8
Total FWM Outflow Conc	ppb	81.1	79.1	13.2	13.1	91.7	13.3	13.2
Bypass Volume	hm3/yr	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bypass Load	kg/yr	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bypass Conc	ppb	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bypass Load	%	0%	0%	0%	0%	0%	0.0	0%
Surface Outflow Load Reduc	%	31.3%	41.0%	80.9%	83.0%	34.8%	86.1%	89.1%
Outflow Geometric Mean - Daily	ppb	75.4	72.0	9.8	7.3	84.1 85.0	7.7	9.1
Outflow Geo Mean - Composites Frequency Outflow Conc > 10 ppb	ppb %	76.2 100%	72.7 100%	10.1 40%	7.5 0%	85.9 100%	8.0 0%	9.3 33%
	/0	10070	10070	4070	070	10070	070	0070





## Appendix C DMSTA2 Runs

## List of Tables

TABLE C.1 RESULTS OF DMSTA2 ANALYSIS, STA-1W EXISTING DESIGN (BASELINE 2007-
2056)
TABLE C.2 RESULTS OF DMSTA2 ANALYSIS, STA-1W, ALTERNATIVE 1 C-2
TABLE C.3 RESULTS OF DMSTA2 ANALYSIS, STA-1W EXISTING DESIGN, ALTERNATIVE 2C-3
TABLE C.4 RESULTS OF DMSTA2 ANALYSIS, STA-1W EXISTING DESIGN (BASELINE 2007-2056) – WITH 31-YR MONTHLY AVERAGE TP CONCENTRATIONS
TABLE C.5 RESULTS OF DMSTA2 ANALYSIS, STA-1W, ALTERNATIVE 1 – WITH 31-YR         MONTHLY AVERAGE TP CONCENTRATIONS
TABLE C.6 RESULTS OF DMSTA2 ANALYSIS, STA-1W EXISTING DESIGN, ALTERNATIVE 2 –
WITH 31-YR MONTHLY AVERAGE TP CONCENTRATIONS





#### Table C.1 Results of DMSTA2 Analysis, STA-1W Existing Design (Baseline 2007-2056)

Input Variable	Units	Value	Case Descript	ion:										
Design Case Name Input Series Name	•	Baseline TS_STA	Existing, Cell	s 1-3 & 5AEme	ergent & Cell4 &	5BSAV_3								
Starting Date for Simulation		01/01/65												
Ending Date for Simulation	-	12/31/95												
Starting Date for Output Integration Steps Per Day	-	01/01/65 3	Simulation Typ	e.	Base									1
Number of Iterations	-	3	Output Variabl	e	Mean	Lower CL	Upper CL		Diagnostics					
Output Averaging Interval Inflow Conc Scale Factor	days	7	FWM Outflow	C (ppb)	27.1 24.6	#N/A #N/A	#N/A #N/A		H20 Balance E	rror Mean & Ma Error Mean & Ma	x	0.0%	0.0%	
Rainfall P Conc	- ppb	10	GM Outflow C Load Reductio	(ppo) in %	24.6	#N/A #N/A	#N/A #N/A		Iterations & Co		ax	0.3%	0.5%	
Atmospheric P Load (Dry)	mg/m2-yr	20	Bypass Load (	%)	0.0%				Warning/Error			4		
Cell Number> Cell Label		1	2	3	4	5 5A	6 5B	7	8	9	10	11	12	n
Vegetation Type	>	EMG_3	EMG_3	EMG_3	SAV_3	EMG_3	SAV_3							
Inflow Fraction	-	0.25	0.25			0.5								
Downstream Cell Number Surface Area	- km2	3 6.03	4 3.81	2.83	1.01	6 2.27	9.28							
Mean Width of Flow Path	km	1.10	1.74	2.48	1.83	1.78	2.34							
Number of Tanks in Series Minimum Depth for Releases	- cm	2.0	2.0	2.0	2.0	2.0	3.0							
Release 1 Series Name	an													
Release 2 Series Name														
Outflow Series Name Depth Series Name														
Outflow Control Depth	cm	55	67	46	60	60	60							
Outflow Weir Depth	cm													
Outflow Coefficient - Exponent Outflow Coefficient - Intercept	-	2.35 1.24	2.51 1.38	2.5 1.03	2.5 1.28	2.49 2.75	2.25 3.78							
Bypass Depth	cm	1.2.4	1.00	1.00	1.20	2.70	0.70							
Maximum Inflow Maximum Outflow	hm3/day													
Inflow Seepage Rate	hm3/day (cm/d) / cm	0.01038	0.00547	0.00676	0.00485									
Inflow Seepage Control Elev	cm	183	101	163	82									
Inflow Seepage Conc Outflow Seepage Rate	ppb (cm/d) / cm	20 0.00346	20	20 0.00173	20	20 0.01577	20 0.00496							
Outflow Seepage Control Elev	(cm/d) / cm cm	43		40		-46	-46							
Max Outflow Seepage Conc	ppb	20	20	20	20	20	20	1	1					
Seepage Recycle to Cell Number Seepage Recycle Fraction	-					0.91	0.8							
Seepage Discharge Fraction														
Initial Water Column Conc	ppb	30 500	30 500	30 500	30 500	30 500	30 500							
Initial P Storage Per Unit Area Initial Water Column Denth	mg/m2 cm	500	500	500	500	500	500							
Initial Water Column Depth C0 = Conc at 0 g/m2 P Storage	ppb	3	3	3	3	3	3							
C1 = Conc at 1 g/m2 P storage C2 = Conc at Half-Max Uptake	ppb	22 300	22 300	22	22 300	22 300	22 300							
K = Net Settling Rate at Steady State	ppb m/yr	300	16.8	300 16.8	52.5	16.8	52.5							
Z1 = Saturated Uptake Depth Z2 = Lower Penalty Depth	cm	40	40	40	40	40	40							
Z2 = Lower Penalty Depth Z3 = Upper Penalty Depth	cm cm	100 200	100 200	100 200	100 200	100 200	100 200							
		200	200	200	200	200	200	ļ	4				I	4
Output Variables	Units	1	2	3	4	5	6	7	8	9	10	11	12	Overall
Execution Time		12.91	12.55	14.66	15.94	16.04	10.12		-					10.12
Execution Time Run Date	sec/yr	12.81 06/13/05	13.55 06/13/05	14.55 06/13/05	15.84 06/13/05	16.94 06/13/05	18.13 06/13/05		T					18.13 06/13/05
Execution Time Run Date Starting Date for Simulation		06/13/05 01/01/65	06/13/05 01/01/65	06/13/05 01/01/65	06/13/05 01/01/65	06/13/05 01/01/65	06/13/05 01/01/65							18.13 06/13/05 01/01/65
Execution Time Run Date Starting Date for Simulation Starting Date for Output		06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65							18.13 06/13/05 01/01/65 01/01/65
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration		06/13/05 01/01/65 01/01/65 12/31/95 11322	06/13/05 01/01/65 01/01/65 12/31/95 11322	06/13/05 01/01/65	06/13/05 01/01/65	06/13/05 01/01/65 01/01/65 12/31/95 11322	06/13/05 01/01/65 01/01/65 12/31/95 11322							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label	sec/yr - - -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1	06/13/05 01/01/65 01/01/65 12/31/95 11322 2	06/13/05 01/01/65 01/01/65 12/31/95 11322 3	06/13/05 01/01/65 01/01/65 12/31/95 11322 4	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B							18.13 06/13/05 01/01/65 01/01/65 12/31/95
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Downstream Cell Label	sec/yr - - -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none	06/13/05 01/01/65 01/01/65 12/31/95 11322	06/13/05 01/01/65 01/01/65 12/31/95	06/13/05 01/01/65 01/01/65 12/31/95	06/13/05 01/01/65 01/01/65 12/31/95 11322	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type	sec/yr - - days -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area	sec/yr - - days - - - km2	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Date Downstream Cell Label Network Simulation Name Simulation Type Surdiace Area Mean Rahrfall Mean ET	sec/yr - - days - - - - cm/yr cm/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainfall Mean ET Cell Inflow Volume	sec/yr - - days - km2 cm/yr cm/yr hm3/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0	06/13/05 01/01/65 01/01/65 12/31/95 11/322 4 Outflow none Base 1.01 142.9 140.9 52.2	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8							18.13 06/13/05 01/01/65 12/31/95 11/322 Total - none Base 25.24 142.9 140.9
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Fainfal Mean Fainfal Gell Inflow Load Cell Inflow Load	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr kg/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 140.9 97.8 10114 103.4							18.13 06/13/05 01/01/65 12/31/95 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Downstream Cell Label Network Simulation Name Surtace Area Surtace Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Conc Cell Inflow Conc	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr ppb hm3/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 52.2	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5 85.0	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 10114 103.4 94.6							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5 232.1
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Duput Duration Cell Label Downstream Cell Label Dewtwork Simulation Name Simulation Type Surface Area Mean Farafall Mean Farafall Cell Inflow Load Cell Inflow Load Cell Inflow Load	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3424	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 52.2 33548	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5 85.0 2534	06/13/05 01/01/65 01/01/65 12/31/95 11/322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8 10114	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 10114 103.4 94.6 1677							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - - none Base 25.24 140.9 197.9 27419 138.5 232.1 6290
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean R Tanifall Mean R Tanifall Gell Inflow Volume Cell Inflow Cad Cell Inflow Cad Cell Inflow Cad Treated Outflow Lad Treated PWW Lad	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr ppb hm3/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3424 44.5 #W/A	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 140.9 49.5 6855 138.5 52.2 3548 68.0 #N/A	06/13/05 01/01/85 01/01/85 12/31/95 11322 3 Outflow none Base 2.83 140.9 77.0 3424 44.5 85.0 2534 29.8 #N/A	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079 39.5 #N/A	06/13/05 01/01/65 01/01/65 12/31/95 5A 5B none Base 2.27 140.9 99.0 13710 138.5 97.8 10114 103.4 #N/A	06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 10114 103.4 94.6 1677 17.7 #tt/VA							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11/322 Total - none Base 25.24 142.9 197.9 27419 138.5 232.1 6290 27.1 #WVA
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Sunface Area Mean Refail Cell Inflow Load Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Treated Outflow Load Treated Outflow Load Treated Outflow Load	sec/yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3424 44.5 #N/A	06/13/05 01/01/85 01/01/85 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 52.2 3548 68.0 #N/A	06/13/05 01/01/85 01/01/85 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5 85.0 2534 29.8 #N/A	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079 39.5 #N/A	06/13/05 01/01/65 01/01/65 12/31/95 11/322 5A 5B none Base 2.27 142.9 140.9 99.0 138.5 97.8 10114 103.4 #N/A	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 10114 103.4 94.6 1677 17.7 #N/A							18.13 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5 232.1 6290 27.1 #NVA
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Odd Starting Date Date Starting Date Date Starting Date Date Starting Date Date Starting Date Simulation Type Simulation	sec/yr - - days - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3424 44.5 #W/A	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 140.9 49.5 6855 138.5 52.2 3548 68.0 #N/A	06/13/05 01/01/85 01/01/85 12/31/95 11322 3 Outflow none Base 2.83 140.9 77.0 3424 44.5 85.0 2534 29.8 #N/A	06/13/05 01/01/85 01/01/85 12/31/95 11/322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079 39.5 #N/A #N/A 52.6	06/13/05 01/01/65 01/01/65 12/31/95 11/322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8 10114 103.4 #N/A #N/A	06/13/05 01/01/05 01/01/05 12/31/95 11/322 5B Outflow none Base 9.28 140.9 97.8 10114 103.4 94.6 1677 17.7 #N/A #N/A 94.6							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11/322 Total - none Base 25.24 142.9 197.9 27419 138.5 232.1 6290 27.1 #NVA #NVA 232.1
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Date for Output Date Starting Date Starting Date Starting Network Simulation Name Simulation Type Simulation Type Simulation Type Simulation Type Simulation Type Simulation Type Simulation Type Simulation Name Cell Inflow Volume Cell Inflow Load Cell Inflow Load Cell Inflow Cance Cillion Conce Upper Confidence Limit Lower Contidence Limit Lower Contidence Limit Total Outflow Volume + Psysas Total Outflow Conce	sec/r - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 12/31/95 11/322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3424 44.5 #N/A #N/A 77.0 3424 44.5	06/13/05 01/01/65 12/21/06 11322 2 4 none Base 3.81 142.9 140.9 8855 52.2 3548 68.0 #NNA #NNA #NNA #NNA	06/13/05 01/01/65 12/31/95 11/32/195 11/32/2 3 0/utflow none Base 2.83 142.9 77.0 3424 44.5 85.0 2534 29.8 85.0 2534 29.8 85.0 2534 29.8	06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 4 0-utflow Base Base Base Base Base Base Base Base	06/13/05 01/01/65 12/21/05/ 11/322 5A 5B none Base 2.27 142.9 140.9 140.9 140.9 140.9 140.9 140.9 140.9 140.9 140.9 13710 138.5 97.8 10114 103.4 97.8	06/13/05 01/01/65 01/01/65 12/31/95 11/322 5B 11/322 5B 11/322 5B 11/322 5B 11/322 928 11/32 11/							18.13 06/13/05 01/01/05 01/01/05 11/12/05 11/12/05 11/
Execution Time Run Date Starting Date for Csimulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Favriata Mean F	sec)r - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/21/95 11322 1 3 none Base 6.03 14/2.9 14/0.9 14/0.9 14/0.9 14/2.9 14/0.9 14/2.9 14/2.5 138.5 148.5 141	06/13/05 01/01/65 12/31/95 11/32/2 2 4 none Base Base Base Base 3.81 142.9 140.9 140.9 140.9 142.9 140.9 18.5 5 2.2 3548 68.0 18.5 52.2 3548 68.0 0	06/13/05 01/01/85 12/31/95 11/32/2 3 0/utflow none Base 2.83 14/2.9 14/0.9 77.0 3/2/4 44.5 85.0 2/2/84 44.5 85.0 2/2/84 44.5 85.0 2/2/84 44/2 2/8.8 6 0/2/2/84 85.0 2/2/84 8 2/2/2/2 8 2/2/2 8 2/2/2 2/2/84 8 2/2/84 8 2/2/2 2/2/2 2/2/2/2 2/2/2/2 2/2/2/2/2	06/13/05 01/01/65 12/21/85 11/32/2 4 0utflow none Base 1.01 14.2.9 140.9 52.2 38.48 68.0 52.6 2079 39.5 #N/A #N/A 52.6 2079 39.5 0	06/13/05 01/01/65 12/31/95 11/32/2 5A 5B none Base 2.27 14/2.9 99.0 99.0 137/10 138.7 97.8 10/114 10/3.4 #N/A #N/A	06/13/05 01/01/65 01/01/65 12/21/95 132 132 9 0utflow none Base 9.28 142.9 97.8 10114 10314 10314 10314 10314 10374 17.7 <i>i</i> / <i>i</i> / <i>i</i> / <i>i</i> /5 17.7 <i>i</i> / <i>i</i> / <i>i</i> /5 17.7 <i>i</i> / <i>i</i> /7,7 0							18.13 06/13/05 01/01/65 01/01/65 12/31/95 113/22 Total 70 13/2 25.24 140.9 19/7.9 27.41 138.5 232.1 232.1 23597.4 23527.4 23527.4
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Duput Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainfall Mean Farinfall Mean Farinfall Mean Cell Inflow Load Cell Inflow Load Cell Inflow Conc Cell Inflow Conc Cell Inflow Load Treated Outflow Conc Upper Confidence Limit Lower Confidence Limit Date Outflow Conc Bypass Load Bypass Load Maximum Inflow	sec)r - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/21/165 11/21/165 11/21/16 13/21/17 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 177.0 3424 44.5 777.0 3424 44.5 0 0.0 78	06/13/05 01/01/65 01/01/65 12/21/95 2 2 4 none Base 3.81 142.9 40.5 6855 138.5 52.2 3648 68.0 #N/A #N/A #N/A 52.2 3548 68.0 0 0.0,78	06/13/05 01/01/65 01/01/65 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 14/0.9 77.0 2534 28.8 0 0.0 0.0 0.09	06/13/05 01/01/65 01/01/65 12/21/95 4 Outflow none Base 1.01 142.9 140.9 52.6 2079 39.5 26 2079 39.5 20 39.5 0 0.0 0.89	06/13/05 01/01/65 01/01/65 12/21/95 5A 5B none Base 2.27 14/2.9 9.0 13710 138.5 97.8 10/14 103.4 97.8 10/14 103.4 0 0.0 0.5 5	06/13/05 01/01/85 01/01/85 11/322 58 Outflow none Base 9.28 142.9 97.8 10114 103.4 94.6 1677 17.7 17.7 0 0.0 0 1.64							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - - none Base 25.24 142.9 140.9 24.0 9 140.9 24.0 9 24.0 9 22.1 28597.4 200.00
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Collegation Heavink Simulation Name Simulation Type Surface Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outflow Load Treated Outflow Load Todal Outflow Load Todal Outflow Load Todal Outflow Load Todal Outflow Load Spass Load Bypass Load Maximum Inflow	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/21/95 12/21/95 13/21 1 3 none Base 6.03 142.9 140.9 49.5 6865 77.0 49.5 8855 77.0 49.5 8855 77.0 3424 44.5 77.0 3424 44.5 0 0.0 0,0 77.0 3424 44.5 0 0,0 0,0 77.0 3424 44.5 0,0 0,0 0,0 0,78 0,0 0,0 0,78 0,0 0,78 0,0 0,78 0,0 0,78 0,78	06/13/05 01/01/65 01/01/65 11/21/01/65 11/21/05 2 2 4 none Base 3.81 14/2.9 14/0.9 8855 2.3 84 8455 8455 2.5 552 2.5 554 2.5 554 8552 2.5 554 8555 8552 2.5 554 8555 8552 8555 8552 8555 8552 85555 85555 8555 85555 85555 85555 85555 85555 85555 85555 85	06/13/05 01/01/65 12/01/06 12/00 12/01/06 12/000	06/13/05 01/01/65 12/01/65 12/01/65 12/01/65 12/01/65 13/22 113/2 Base 11/02 Base 11/02 Base 11/02 Base 11/02 Base 11/02 Base 20/79 33/05 22/79 33/05 20/79 33/05 20/79 33/05 20/79 33/05 20/79 33/05 20/79 33/05 20/79 33/05 20/79 20/05 20/07 20/05 20/07 20/000	06/13/05 01/01/65 12/21/05 54 01/01/65 12/21/05 58 none Base 22/7 14/2/9 98.0 98.0 13/710 13/8.5 97.8 97.8 91.14 103.4 #N/A #N/A 97.8 10114 103.4 #N/A 97.15 10114 103.4 10.4 103.4 10.4 10.4 10.4 10.4 10.4 10.4 10.4 10	06/13/05 01/01/65 01/01/65 12/21/95 58 Outflow none Base 9.28 140.9 97.8 10/1.4 103.4 97.8 10/1.4 103.4 97.8 10/1.4 103.4 97.8 10/1.4 1677 7 17.7 17.7 18/VA #N/A 94/A 1677 7 1.7 7 0 0.0 0.0 1.64 1.82							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total none Base 25.24 142.9 140.9 197.9 27.419 138.5 232.1 6290 27.41 232.1 82807.4 22807.4 22807.4 22807.4 22807.4 22807.4 22807.4 23.6 2
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Duput Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainfall Mean Farinfall Mean Farinfall Mean Cell Inflow Load Cell Inflow Load Cell Inflow Conc Cell Inflow Conc Cell Inflow Load Treated Outflow Conc Upper Confidence Limit Lower Confidence Limit Date Outflow Conc Bypass Load Bypass Load Maximum Inflow	sec)r - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/21/165 11/21/165 11/21/16 13/21/16 80 40.5 40.5 138.5 177.0 3424 44.5 777.0 3424 44.5 0 0.0 78	06/13/05 01/01/65 01/01/65 12/21/95 2 2 4 none Base 3.81 142.9 40.5 6855 138.5 52.2 3648 68.0 #N/A #N/A #N/A 52.2 3548 68.0 0 0.0,78	06/13/05 01/01/65 01/01/65 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 14/0.9 77.0 2534 28.8 0 0.0 0.0 0.09	06/13/05 01/01/65 01/01/65 12/21/95 4 Outflow none Base 1.01 142.9 140.9 52.6 2079 39.5 26 2079 39.5 20 39.5 0 0.0 0.89	06/13/05 01/01/65 01/01/65 12/21/95 5A 5B none Base 2.27 14/2.9 9.0 13710 138.5 97.8 10/14 103.4 97.8 10/14 103.4 0 0.0 0.5 5	06/13/05 01/01/85 01/01/85 11/322 58 Outflow none Base 9.28 142.9 97.8 10114 103.4 94.6 1677 17.7 17.7 0 0.0 0 1.64							18.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - - none Base 25.24 142.9 140.9 24.0 9 140.9 24.0 9 24.0 9 22.1 28597.4 200.00
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean R Tanifall Mean R Tanifall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Created Outflow Load Treated Coutflow Load Treated Coutflow Load Treated Coutflow Load Treated Coutflow Load Treated Coutflow Load Treated Coutflow Load Total Outflow Load + Spass Total Outflow Load + Spass Total Outflow Load Spass Load Spass Load Spass Load Spass Load Sparae Load Reduction Load Tapped in Sediments Overall Load Reduction	seciyr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/23195 11/23195 11/23195 11/23195 11/23195 11/23195 11/2319 11/23	06/13/05 01/01/65 01/01/65 11/21/165 11/32/2 2 4 none Base 4 4 2 4 4 4 9.5 5 2 2 4 4 4 9.5 5 2 2 3648 68.0 49.5 5 2 2 3648 68.0 0 0 0 0 0 0 0 7 8 8 9.0 1 8 9.5 2 349 1 8 8.5 5 2 3648 6 8.0 0 1 8 8.5 1 13.5 2 5 2 2 3648 6 8.0 0 10 10 10 10 10 10 10 10 10 10 10 10	06/13/05 01/01/65 01/01/65 11/21/16 11/322 3 0utflow none Base 2.33 2.23 41/0 2.23 41/0 2.23 41/0 2.23 41/0 2.25 41/0 2.25 4 4.5 2.5 8.5 0 2.53 4 42.28 8.5 0 2.53 4 42.5 8.5 0 0.0 0.0 0.9 0 0.90 0.90 0.90 0.90 0	06/13/05 01/01/65 01/01/65 11/23/19 12/31/95 11/32/2 4 0utflow none Base 1.01 11/32/2 4 0utflow none Base 1.01 11/32/2 12/31/95 12/31/31/95 12/31/95 12/31/95 12/31/3	06/13/05 01/01/65 01/01/65 11/21/15 5A 5B none Base 5B 12/21/95 5A 5B none Base 12/21/95 5A 5B 10/21 42/21 95,0 12/21/95 13/21 95,0 13/21/05 13/8,5 97,8 10/114 10/3,4 #N/A 97,8 10/114 10/3,4 #N/A 97,8 10/114 10/3,4 #N/A 10/85 15/85 15/85 10	06/13/05 01/01/85 01/01/85 11/322 58 0utlow Bee Bee Bee Bee Bee Bee Bee Bee Bee Be							18.13 06/13/05 01/01/65 12/31/95 11322 11322 11322 100 25.24 142.9 140.9 1979.9 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 2620 2620 27419 27419 2620 2620 2620 27419 2620 27419 2620 27419 2620 27419 2620 27419 27419 27419 2620 27419 27777 27776 27777777777777777777777777
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Fel Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Volume Maximum Inflow Maximum Inflow Maximum Outflow Maximum Outflow Concerting Sciences Devall Load Trapped In Sciences Overall Load Reduction Load Trapped In Sciences	secyr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/21/95 11/322 1 3 00 885 138.5	06/13/05 01/01/65 01/01/05 11/21/95 11/22/2 2 2 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/21/95 11/22/13/95 32 00 00 14/2.9 14/0.9 14/2.9 14/0.9 14/2.9 14/0.9 14/2.9 14/2.9 25/3 20/3 25/3 20/3 25/3 20/3 25/3 20/3 25/3 20/3 20/3 25/3 20/3 20/3 25/3 20/3 25/3 20/3 25/3 25/3 25/3 25/3 25/3 25/3 25/3 25	06/13/05 01/01/65 01/01/65 11/231/05 11/231/05 11/231/05 4 0.01/05 11/231/05 11/231/05 11/232 4 0.01/05 12/23 14/2 23548 0.0 52.6 2354 2355 2355 2355 2355 2355 2355 2355	06/13/05 01/01/65 01/01/65 11/21/95 11/222 5A 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/322 58 Outflow none Base 9.28 9.28 9.28 9.24 9.29 142.9 9.44 9.28 9.28 9.28 9.28 9.28 9.28 9.28 9.28							18.13 06/13/05 01/01/05 121/262 121/27 Tital 1222 Tital 25.24 14/03 14/0
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainfalt Mean Rainfalt Mean Rainfalt Mean Rainfalt Mean Call Inflow Load Cell Inflow Conc Cell Inflow Conc Depre Confidence Limit Expans Load Bypass Load Maximum Inflow Maximum Outflow Surface Load Reduction Load Trapped In Section Load Reduction Load Reduction Laber Trapped In Section Daby Geometric Mean	sec)yr - - days - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/23195 11/23195 11/23195 11/23195 11/23195 11/23195 11/2319 11/23	06/13/05 01/01/65 01/01/65 11/21/165 11/32/2 2 4 none Base 4 40.5 5 2 2 4 4 6 8 5 5 2 2 3648 6 8.0 0 188.5 5 2 2 3648 6 8.0 0 19/10 6 0 0 0 0 0 0 7 8 8 9 0 7 8 9 8 9 0 1 8 8 9 0 18 5 2 2 36 19 1 18 2 1 19/10 19 5 2 2 1 2 1 19/10 19 5 19/10 19 5 19/10 19/16 5 19/10 19/16 5 19/10 19/16 5 19/10 19/16 5 19/10 19/10 19/10	06/13/05 01/01/65 01/01/65 11/21/01/65 11/32/2 3 0utflow none Base 2.83 2.83 2.23 4.10,9 77,0 37,20,20 37,20,20 37,20,20 37,20,20 37,20,20,20,20,20,20,20,20,20,20,20,20	06/13/05 01/01/65 01/01/65 11/23/19 12/31/95 11/32/2 4 0utflow none Base 1.01 11/32/2 4 0utflow none Base 1.01 11/32/2 12/31/95 12/31/31/95 12/31/95 12/31/95 12/31/3	06/13/05 01/01/65 01/01/65 11/21/15 5A 5B none Base 5B 12/21/95 5A 5B none Base 12/21/95 5A 5B 10/21 42/21 95,0 12/21/95 13/21 95,0 13/21/05 13/8,5 97,8 10/114 10/3,4 #N/A 97,8 10/114 10/3,4 #N/A 97,8 10/114 10/3,4 #N/A 10/85 15/85 15/85 10	06/13/05 01/01/85 01/01/85 11/322 58 0utlow Bee Bee Bee Bee Bee Bee Bee Bee Bee Be							18.13 06/13/05 01/01/65 12/31/95 11322 11322 11322 100 25.24 142.9 140.9 1979.9 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 27419 2620 2620 27419 27419 2620 2620 2620 27419 2620 27419 2620 27419 2620 27419 2620 27419 27419 27419 2620 27419 27777 27776 27777777777777777777777777
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Ending Date Output Ending Date Date Date Starting Date Network Simulation Name Simulation Type Surface Area Mean R Tanifall Mean E T Cell Inflow Volume Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Conc Upper Confidence Limit Total Outflow Load Total Cutflow Load Date Start Date Start Confidence Limit Total Outflow Load Bypass Load Bypass Load Bypass Load Bypass Load Maximum Inflow Maximum Contene Limit Cover I Load Reduction Lower Confidence Limit Date Start Start Start Start Confidence Limit Date Start Start Start Date Start Start Date Start Date Start Start Date Start Start Start Date Start	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/12/23/105 11/12/23/105 11/12/23/10 11/12 1	06/13/05 01/01/65 01/01/65 11/21/152 2 2 4 4 000 88 5 5 2 5 2 5 2 4 0,5 5 4 5 2 5 2 5 2 4 0,5 6 0,5 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	06/13/05 01/01/65 01/01/65 11/32/31/95 0.000 Base 2.83 14/2.9 14/0.9 77.0 2.83 14/2.9 28.4 5 20.0 2534 2534 2534 2534 2534 2534 2534 2534	06/13/05 01/01/65 01/01/65 11/22(31/95) 11/2	06/13/05 01/01/85 01/01/85 11/221/85 88 88 88 88 88 88 88 88 88 88 88 88 8	06/13/05 01/01/85 01/01/85 01/01/85 01/01/85 01/01/85 00 000000000000000000000000000000000							18.13 06/13/05 01/01/65 12/31/95 11322 10/04 8329 25.24 142.9 140.9 197.9 27419 138.5 27419 138.5 27419 138.5 27419 138.5 27419 27419 28597.4 128597.4 128597.4 128597.4 128597.4 128597.4 128597.4 128597.4 128597.4 128597.4 128597.4 1292.1 200.0 21717 7
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Date for Output Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainfall Mean Et Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Treated Outflow Volume Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Bypass Load Maximum Outflow Maximum Outflow Maximum Outflow Maximum Outflow Surface Load Reduction Load Trapped in Seduction Load Reduction Load Reduction Lower Confidence Limit Daby Geometric Mann Outflow Geo Mean - Composites	sec/yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/2 1 3 0 none Base 6 0/3 14/2.9 14/0.9 14/2.9 14/0.9 14/2.9 14/0.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 13/8.5 0 0.0 77.0 34/2 4 4.5 0 0.0 77/2 0 34/3 4 4/5 0 0.0 77/2 0 34/3 4 4/5 0 0.0 77/2 0 34/3 4 4/5 10/2 10/2 10/2 10/2 10/2 10/2 10/2 10/2	06/13/05 01/01/65 01/01/65 11/21/95 11/21/95 11/21/95 2 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/21/95 11/22/2 3 00/07/06 12/21/95 11/22/2 3 00/07/06 12/21/95 12/21/21/95 12/21/21/21 12/21/21 12/21/21 12/21/21 12/21/21 12/21/21 12/21/21 12/21/21 12/21/21 12/21/21 12/21/21 12/21/21 12/21/21/21 12/21/21 12/21/21 1	06/13/05 01/01/65 01/01/65 11/2/31/95 11/32/2 4 00/01/06 8 00/01/06 11/2/31/95 11/32/2 4 00/01/06 11/2/3 1/	06/13/05 01/01/65 01/01/65 11/21/195	06/13/05 01/01/85 01/01/85 11/32/2 0.0000 0.00000 0.00000 0.000000							18.13 06/13/05 01/01/05 12/010
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Cell Label Cell Label Network Simulation Name Simulation Type Surface Area Mean Ravinal Mean Ravinal Mean Ravinal Cell Inflow Volume Cell Inflow Volume Cell Inflow Conc Cell Inflow Conc Surface Load Reduction Load Trapped in Sediments Overall Load Reduction Lower Confidence Limit Lower Confidence Limit	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/231/95	06/13/05 01/01/65 01/01/65 11/21/105 11/21/105 11/21/105 8 8 8 8 8 8 11/22 11/21 2 4 9 5 11/21/105 11/21/05 11/22 12/21/05 11/22 11/22 11/21/05 11/22 11/	06/13/05 01/01/65 01/01/65 11/21/195 11/21/195 11/32/2 3 0/07/00 8 8 8 0 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 253/4 253/4 253/4 253/4 253/8 20,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,	06/13/05 01/01/65 01/01/65 11/231/95 11/231/95 11/232 4 0ufflow none Biaso 11/22 4 0ufflow none Biaso 11/22 4 14/29 14/29 14/29 14/29 14/29 25/26 26/20 26/2	06/13/05 01/01/65 01/01/65 11/21/185 11/21/185 11/21/185 11/21/185 11/21/185 11/21/185 11/21/185 11/21/19 11/21	06/13/05 01/01/85 01/01/85 11/32/31/95 82 06/00 06/00 92/8 92/8 142.9 97.8 10114 103.4 94.6 1677 17.7 17.7 17.7 17.7 0 0.0 0.0 0.0 0.1 64 1877 17.7 0 1.64 1877 1.64 1875 1875 1875 1875 1875 1875 1875 1875							18.13 06/13/05 01/01/65 12/31/165 12/31/162 11/3/2 11/3/2 11/3/2 11/3/2 11/3/2 11/3/2 11/3/2 11/3/2 11/3/2 11/3/2 11/3/2 14/0.9 19/7.9 128.2 14/0.9 27/1 20/0 27/1 20/0 27/1 20/0 27/1 20/0 27/1 20/0 27/1 20/0 27/1 20/0 27/1 20/0 27/1 20/0 27/1 20/0 20/0 27/1 20/0 20/0 27/1 20/0 20/0 20/0 20/0 20/0 20/0 20/0 20
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Maan ET fait Mean ET fait Cell Inflow Load Cell Inflow Load Cell Inflow Conc Cell Inflow Conc Treated Outflow Volume Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Treated Outflow Load Treated Outflow Load Bypass Load Bypass Load Bypass Load Bypass Load Bypass Load Bypass Load Bypass Load Maximum Inforum Maximum Inform Confidence Limit Over Outflow Conce Daily Geometric Mean Outflow Geo Mean - Composites Upper Confidence Limit Depar Confidence Limit Depar Confidence Limit Depar Confidence Limit Depar Confidence Limit Depar Confidence Limit Trequency Outflow Conc > 10 ppb Frequency Outflow Conc > 10 ppb	sec/yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/322 1 3 0000 Base 6.03 14/2.9 14/0.	06/13/05 01/01/65 01/01/05 11/21/95 11/22/2 2 4 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/05 11/32/05 11/32/05 000 000 000 32/2 14/2.9 14/0.9 14/2.9 14/0.9 14/2.9 34/2 44.5 0 34/2.4 44.5 0 34/2.4 44.5 0 34/2.4 44.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06/13/05 01/01/65 01/01/65 11/231/95 11/232 4 0 00 888 888 888 888 888 888 888 888	06/13/05 01/01/85 01/01/85 11/32/2 58 8 8 8 8 8 8 9 8 9 8 9 14/2 9 9.0 0 137/10 10/10 10/10 10/10 10/10 10/	06/13/05 01/01/85 01/01/85 11/13/2 01/01/85 01/01/85 01/16 0000000000							18.13 06/13/05 01/01/05 101/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 10/05 10/05 10/05
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Ravinal Mean Ravinal Mean Ravinal Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Code Cell Inflow Code Start Cell Code Cell Inflow Code Cell Inflow Code Surface Code Reduction Lower Confidence Limit Upper Confidence Limit Daty Geometric Maan Outflow Code Sen - Composites United Confidence Limit Upper Confidence Limit Daty Geometric Maan Confidence Limit Upper Confidence Limit Upper	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/11/2 1 3 none Base 6.0.2 140.3 140.3 140.3 140.3 140.5 6855 188.5 177.0 3424 44.5 6855 188.5 77.0 3424 44.5 0.0 0.2 0 0.0 0.7 3424 44.5 0.0 0.0 0.0 0.7 3424 44.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	06/13/05 01/01/65 01/01/65 11/21/105	06/13/05 01/01/65 01/01/65 11/21/195 11/32/2 3 0ufflow none Base Base Base Base Base Base Base Bas	06/13/05 01/01/65 01/01/65 11/23/105 11/23/105 11/23/105 11/23/105 11/23/105 11/23/10 12/23/05 12/23/2	06/13/05 01/01/65 01/01/65 11/21/185 11/21/185 11/21/185 11/21/185 11/21/185 11/21/185 11/21/185 11/21/19 11/21/19 11/21/19 11/21/19 11/21/19 10/11/4 10/11/6 10/10/16 10/16 10/16 10/16 10/16 10/16 10/16 10/21/185 11/	06/13/05 01/01/85/55 01/01/85/55 11/01/85/55 11/01/85/55 11/01/85/55 01/01/85/55 01/01/85 14/20							18.13 06/13/05 01/01/65 12/31/95/2 11/26/2 11/
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Maan ET fait Mean ET fait Cell Inflow Load Cell Inflow Load Cell Inflow Conc Cell Inflow Conc Treated Outflow Volume Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Treated Outflow Load Treated Outflow Load Bypass Load Bypass Load Bypass Load Bypass Load Bypass Load Bypass Load Bypass Load Maximum Inforum Maximum Inform Confidence Limit Over Outflow Conce Daily Geometric Mean Outflow Geo Mean - Composites Upper Confidence Limit Depar Confidence Limit Depar Confidence Limit Depar Confidence Limit Depar Confidence Limit Depar Confidence Limit Trequency Outflow Conc > 10 ppb Frequency Outflow Conc > 10 ppb	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/01/65 11/01/65 11/01/65 8 8 6 03 11/01/65 8 8 8 6 03 11/01/65 8 8 8 6 03 11/01/65 8 8 8 5 7 7 7 0 3 4 2 4 4 5 8 8 5 7 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06/13/05 01/01/65 01/01/65 11/21/152 2 4 4 0000 88 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8	06/13/05 01/01/65 01/01/65 11/32/31/95 11/32/31/95 0uttow Base 2.83 14/2.9 14/0.9 77.0 3.44,5 44,5 44,5 44,5 44,5 44,5 44,5 44,5	06/13/05 01/01/65 01/01/65 11/22/2 01/01/65 11/22/2 0-000 Base 10/01/65 Base 10/01/65 Base 10/01/65 Base 10/01/65 Base 10/01/65 Base 10/01/65 Base 20/079 30.5 20/079 30	06/13/05 01/01/85 01/01/85 11/221/85 88 88 88 88 88 88 88 88 88 88 88 88 8	06/13/05 01/01/85 01/01/85 11/13/2 01/01/85 01/01/85 01/16 0000000000							18.13 06/13/05 01/01/05 101/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 11/07/05 10/05 10/05 10/05
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Dewnstream Cell Label Network Simulation Name Simulation Type Surface Area Main for Hall Cell Inflow Load Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Maximum Inflow Maximum Inflow Maximum Outflow Outflow Gen Mean - Composites Upper Confidence Limit Upper Confidence Confidence Limit Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/31/95 11/32/31/95 11/32 1 3 00/06 885 6.03 11/42.9 14/0.9 49.5 6.03 11/42.9 14/0.9 49.5 6.03 11/42.9 14/0.9 49.5 138.0 139.0 139.	06/13/05 01/01/65 01/01/65 11/21/95 11/22/2 2 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/21/95 11/22/2 3 0 00000 23 23 0 00000 23 23 24 24 25 24 25 24 25 25 24 25 25 25 25 25 25 25 25 25 25 25 25 25	06/13/05 01/01/65 01/01/65 11/231/05 11/231/05 11/322 4 0 00/00 8 0 23/3 13/2 14/2 14/2 14/2 14/2 14/2 14/2 14/2 14	06/13/05 01/01/85 01/01/85 11/221/85 88 88 88 88 88 88 88 88 88 88 88 88 8	06/13/05 01/01/85/55 01/01/85/55 11/01/85/55 11/01/85/55 88 02/87 01/16/16/16/16 88 02/87 14/20							18.13 06/13/05 01/01/05 101/05 112/22 1142 1144 1142 1144
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Dewnstream Cell Label Network Simulation Name Simulation Type Surface Area Main for Hall Cell Inflow Load Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Maximum Inflow Maximum Inflow Maximum Outflow Outflow Gen Mean - Composites Upper Confidence Limit Upper Confidence Confidence Limit Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/01/85 11/01/85 11/01/85 11/01/85 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/221/05 11/221/05 2 2 4 4 4 4 5 5 2 2 2 4 4 0 5 2 2 2 4 0 5 2 2 3 8 4 8 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 3 5 3 5 7 5 2 3 5 3 5 2 2 3 5 3 5 2 3 5 3 5 3 5 2 3 5 3 5	06/13/05 01/01/65 01/01/65 11/32/3 0 0000 Base 2.83 14/2.9 14/0.9 77.0 34/0.9 27.0 0 0.0 0 2534 2534 2534 2534 2534 2534 2534 2534	06/13/05 01/01/65 01/01/65 11/23/195 11/23/195 11/23/2 4 0	06/13/05 01/01/85 01/01/85 11/32/2 58 8 8 8 8 8 8 8 8 9 8 9 8 0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 10/01/85 14/2 19/85 10/01/85 14/2 19/85 10/01/85 14/2 19/85 10/01/85 10	06/13/05 01/01/85/55 01/01/85/55 11/01/85/55 11/01/85/55 88 02/87 01/16/16/16/16 88 02/87 14/20							18.13 06/13/05 01/01/05 10.101/05 12.1202 Tratal Tratal 25.24 1420 25.24 140.0 25.24 140.0 27.11 138.5 232.1 197.0 27.11 138.5 232.1 232.1 232.1 232.1 232.1 232.1 232.1 232.1 21.17
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Dewnstream Cell Label Network Simulation Name Simulation Type Surface Area Main for Hall Cell Inflow Load Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Maximum Inflow Maximum Inflow Maximum Outflow Outflow Gen Mean - Composites Upper Confidence Limit Upper Confidence Confidence Limit Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/01/85 11/01/85 11/01/85 11/01/85 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/21/95 11/22/2 2 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/32/3 0 0000 Base 2.83 14/2.9 14/0.9 77.0 34/0.9 27.0 0 0.0 0 2534 2534 2534 2534 2534 2534 2534 2534	06/13/05 01/01/65 01/01/65 11/23/195 11/23/195 11/23/2 4 0	06/13/05 01/01/85 01/01/85 11/32/2 58 8 8 8 8 8 8 8 8 9 8 9 8 0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 10/01/85 14/2 19/85 10/01/85 14/2 19/85 10/01/85 14/2 19/85 10/01/85 10	06/13/05 01/01/85/55 01/01/85/55 11/01/85/55 11/01/85/55 88 02/87 01/16/16/16/16 88 02/87 14/20							18.13 06/13/05 01/01/05 10.101/05 12.1202 Tratal Tratal 25.24 1420 25.24 140.0 25.24 140.0 27.11 138.5 232.1 197.0 27.11 138.5 232.1 232.1 232.1 232.1 232.1 232.1 232.1 232.1 21.17
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Dewnstream Cell Label Network Simulation Name Simulation Type Surface Area Main for Hall Cell Inflow Load Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Maximum Inflow Maximum Inflow Maximum Outflow Outflow Gen Mean - Composites Upper Confidence Limit Upper Confidence Confidence Limit Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/01/85 11/01/85 11/01/85 11/01/85 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/221/05 11/221/05 2 2 4 4 4 4 5 5 2 2 2 4 4 0 5 2 2 2 4 0 5 2 2 3 8 4 8 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 3 5 3 5 7 5 2 3 5 3 5 2 2 3 5 3 5 2 3 5 3 5 3 5 2 3 5 3 5	06/13/05 01/01/65 01/01/65 11/32/3 0 0000 Base 2.83 14/2.9 14/0.9 77.0 34/0.9 27.0 0 0.0 0 2534 2534 2534 2534 2534 2534 2534 2534	06/13/05 01/01/65 01/01/65 11/23/195 11/23/195 11/23/2 4 0	06/13/05 01/01/85 01/01/85 11/32/2 58 8 8 8 8 8 8 8 8 9 8 9 8 0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 14/2 19/85 10/01/85 14/2 19/85 10/01/85 14/2 19/85 10/01/85 14/2 19/85 10/01/85 10	06/13/05 01/01/85/55 01/01/85/55 11/01/85/55 11/01/85/55 88 02/87 01/16/16/16/16 88 02/87 14/20							18.13 06/13/05 01/01/05 121/252 11222 Total 25.24 142.0 27.419 132.5 27.419 132.5 27.419 132.5 232.1 232.1 232.1 232.1 232.1 232.2 0.0 0.0 3.12 232.1 23557.1 2352.1 23557.1 2357
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Dewnstream Cell Label Network Simulation Name Simulation Type Surface Area Main for Hall Cell Inflow Load Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Maximum Inflow Maximum Inflow Maximum Outflow Outflow Gen Mean - Composites Upper Confidence Limit Upper Confidence Confidence Limit Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/01/85 11/01/85 11/01/85 11/01/85 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/221/05 11/221/05 2 2 4 4 4 4 5 5 2 2 2 4 4 0 5 2 2 2 4 0 5 2 2 3 8 4 8 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 3 5 3 5 7 5 2 3 5 3 5 2 2 3 5 3 5 2 3 5 3 5 3 5 2 3 5 3 5	06/13/05 01/01/65 01/01/65 11/32/3 0 0000 Base 2.83 14/2.9 14/0.9 77.0 34/0.9 27.0 0 0.0 0 2534 2534 2534 2534 2534 2534 2534 2534	06/13/05 01/01/65 01/01/65 11/23/195 11/23/195 11/23/2 4 0	06/13/05 01/01/85 01/01/85 11/32/2 58 8 8 8 8 8 8 8 8 9 8 9 8 0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 19/85 10/35 10/01/85 14/2 19/85 10/010/01/85 1	06/13/05 01/01/85/55 01/01/85/55 11/01/85/55 11/01/85/55 88 02/87 01/16/16/16/16 88 02/87 14/20							18.13 06/13/05 01/01/05 121/252 11222 Total 25.24 142.0 27.419 132.5 27.419 132.5 27.419 132.5 232.1 232.1 232.1 232.1 232.1 232.2 0.0 0.0 3.12 232.1 23557.1 2352.1 23557.1 2357
Execution Time Run Date Starting Date for Simulation Starting Date for Output Starting Date for Output Output Duration Cell Label Downstream Cell Label Dewnstream Cell Label Network Simulation Name Simulation Type Surface Area Main for Hall Cell Inflow Load Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Maximum Inflow Maximum Inflow Maximum Outflow Outflow Gen Mean - Composites Upper Confidence Limit Upper Confidence Confidence Limit Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb	sec)yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/01/85 11/01/85 11/01/85 11/01/85 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/221/05 11/221/05 2 2 4 4 4 4 5 5 2 2 2 4 4 0 5 2 2 2 4 0 5 2 2 3 8 4 8 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 3 6 4 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 6 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 2 3 5 4 8 5 5 2 2 3 5 3 5 7 5 2 3 5 3 5 2 2 3 5 3 5 2 3 5 3 5 3 5 2 3 5 3 5	06/13/05 01/01/65 01/01/65 11/32/3 0 0000 Base 2.83 14/2.9 14/0.9 77.0 34/0.9 27.0 0 0.0 0 2534 2534 2534 2534 2534 2534 2534 2534	06/13/05 01/01/65 01/01/65 11/23/195 11/23/195 11/23/2 4 0	06/13/05 01/01/85 01/01/85 11/32/2 58 8 8 8 8 8 8 8 8 9 8 9 8 0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 9 9 0.0 13/01/85 14/2 19/85 10/35 10/01/85 14/2 19/85 10/010/01/85 1	06/13/05 01/01/85/55 01/01/85/55 11/01/85/55 11/01/85/55 11/01/85/55 01/01/85/55 01/01/85 14/20							18.13 06/13/05 01/01/05 121/252 11222 Total 25.24 142.0 27.419 132.5 27.419 132.5 27.419 132.5 232.1 232.1 232.1 232.1 232.1 232.2 0.0 0.0 3.12 232.1 23557.1 2352.1 23557.1 2357





Input Variable	Units	Value	Case Descript	ion:										
Design Case Name	-	Alt1	Existing, Cell	s 1,2 & 5AEm	ergent & Cell 3,4	& 5BSAV_3								ן ו
Input Series Name Starting Date for Simulation		TS_STA 01/01/65	Alternative 1											
Starting Date for Simulation Ending Date for Simulation		01/01/65 12/31/95												
Starting Date for Output	-	01/01/65												
Integration Steps Per Day	-	3	Simulation Typ		Base									
Number of Iterations Output Averaging Interval	- days	3 7	Output Variabl FWM Outflow	e C (nnh)	Mean 22.6	Lower CL #N/A	Upper CL #N/A		Diagnostics H20 Balance F	rror Mean & Ma	×	0.0%	0.0%	
Inflow Conc Scale Factor	- uays	í	GM Outflow C	(ppb)	16.5	#N/A	#N/A		Mass Balance	Error Mean & Ma	ax .	0.3%	0.5%	
Rainfall P Conc	ppb	10	Load Reductio	n %	81%	#N/A	#N/A		Iterations & Co	nvergence		3	0.0%	
Atmospheric P Load (Dry) Cell Number>	mg/m2-yr	20	Bypass Load (	%)	0.0%	_		_	Warning/Error			6		
Cell Number> Cell Label		1	2	3	4	5 5A	6 5B	7	8	9	10	11	12	ר I
Vegetation Type	>	EMG_3	EMG_3	SAV_3	SAV_3	EMG_3	SAV_3							
Inflow Fraction		0.25	0.25			0.5								
Downstream Cell Number Surface Area	- km2	3 6.03	4	2.83	1.01	6 2.27	9.28							
Mean Width of Flow Path	km2	1.10	3.81	2.83	1.01	1.78	2.34							
Number of Tanks in Series	-	2.0	2.0	2.0	2.0	2.0	3.0							
Minimum Depth for Releases	cm													
Release 1 Series Name Release 2 Series Name														
Qutflow Series Name														
Depth Series Name														
Outflow Control Depth	cm	55	67	46	60	60	60							
Outflow Weir Depth Outflow Coefficient - Exponent	cm	2.35	2.51	2.5	2.5	2.49	2.25							
Outflow Coefficient - Exponent	-	1.24	1.38	1.03	1.28	2.49	3.78							
Bypass Depth	cm	1.2.4				2.00	0.10							
Maximum Inflow	hm3/day	1	1		1				1			1		
Maximum Outflow Inflow Seepage Rate	hm3/day (cm/d) / cm	0.01038	0.00547	0.00676	0.00485				-					
Inflow Seepage Control Elev	(cm/d) / cm cm	183	101	163	82			1						
Inflow Seepage Conc	ppb	20	20	20	20	20	20							
Outflow Seepage Rate	(cm/d) / cm	0.00346		0.00173		0.01577	0.00496	1						
Outflow Seepage Control Elev Max Outflow Seepage Conc	cm ppb	43 20	20	40 20	20	-46 20	-46 20							
Seepage Recycle to Cell Number	-	20	20	20	20		20							
Seepage Recycle Fraction		1				0.91	0.8	1						
Seepage Discharge Fraction Initial Water Column Conc	- ppb	30	30	30	30	30	30							
Initial P Storage Per Unit Area	рро mg/m2	500	500	500	500	500	500							
Initial Water Column Depth	cm	50	50	50	50	50	50							
C0 = Conc at 0 g/m2 P Storage	ppb	3	3	3	3	3	3							
C1 = Conc at 1 g/m2 P storage C2 = Conc at Half-Max Uptake	ppb	22 300	22 300	22 300	22 300	22 300	22 300							
C2 = Conc at Half-Max Uptake K = Net Settling Rate at Steady State	ppb m/yr	300	300	300 52.5	300 52.5	300	300 52.5							
Z1 = Saturated Uptake Depth	cm	40	40	40	40	40	40							
Z2 = Lower Penalty Depth	cm	100	100	100	100	100	100							
Z3 = Upper Penalty Depth	cm	200	200	200	200	200	200		-					1
Output Variables	Units	1	2	3	4	5	6	7	8	9	10	11	12	Overall
Execution Time	Units sec/yr	1 11.13	2 11.97	3 12.71	4	5 14.29	15.36	7	8	9	10	11	12	15.36
Execution Time Run Date		06/13/05	06/13/05	06/13/05	06/13/05	06/13/05	15.36 06/13/05	7	8	9	10	11	12	15.36 06/13/05
Execution Time Run Date Starting Date for Simulation Starting Date for Output		06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65	15.36 06/13/05 01/01/65 01/01/65	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date	sec/yr - - -	06/13/05 01/01/65 01/01/65 12/31/95	06/13/05 01/01/65 01/01/65 12/31/95	06/13/05 01/01/65 01/01/65 12/31/95	06/13/05 01/01/65 01/01/65 12/31/95	06/13/05 01/01/65 01/01/65 12/31/95	15.36 06/13/05 01/01/65 01/01/65 12/31/95	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration	sec/yr - -	06/13/05 01/01/65 01/01/65 12/31/95 11322	06/13/05 01/01/65 01/01/65 12/31/95 11322	06/13/05 01/01/65 01/01/65 12/31/95 11322	06/13/05 01/01/65 01/01/65	06/13/05 01/01/65 01/01/65 12/31/95 11322	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label	sec/yr - - -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1	06/13/05 01/01/65 01/01/65 12/31/95	06/13/05 01/01/65 01/01/65 12/31/95 11322 3	06/13/05 01/01/65 01/01/65 12/31/95 11322 4	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name	sec/yr - - -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none	7	8	9	10	11	12	15.36 06/13/05 01/01/65 12/31/95 11322 Total - none
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type	sec/yr - - days -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cali Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area	sec/yr - - days - - - km2	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Cell Labei Downski 64 multiakin Name Simulation Types Simulation Types Surface Area Mean Rainfall Mean ET	sec/yr - - days -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainfall Mean ET Cell Inflow Volume	sec/yr - - days - km2 cm/yr cm/yr hm3/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11/322 5B Outflow none Base 9.28 142.9 140.9 97.8	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9
Execution Time Run Date Starting Date for Sinulation Starting Date for Cutput Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Suitatoa Anaya Mean Rantall Mean ET Cell Inflow Volume Cell Inflow Load	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13710	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 10114	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 111322 Total - none Base 25.24 142.9 140.9 197.9 27419
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Dupper Dupper Output Duration Call Label Downstream Cell Label Network Simulation Name Simulation Type Sindrae Area Mean Rantall Define T Cell Inflow Load Cell Inflow Conc	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr ppb	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0	06/13/05 01/01/65 01/01/65 12/31/95 13/25 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 10114 103.4	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Coll Label Downstream Cell Label Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Rahrfall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Conc Treated Outflow Load	sec/yr - - days - - km2 cm/yr cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3424	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 52.2 3348	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5 85.0 1482	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8 10114	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 103.4 94.6 1677	7	8	9	10		12	15.36 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5 232.1 5238
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Suntace Area Mean Raintai Healt Infow Volume Cell Inflow Load Cell Inflow Conce Treated Outflow Load Treated Outflow Load	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 140.9 140.9 5 8855 138.5 77.0 3424 44.5	06/13/05 01/01/65 01/01/65 12/31/95 1322 2 4 none Base 3.81 142.9 140.9 140.9 5 6855 138.5 52.2 3548 68.0	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5 85.0 1482 17.4	06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079 39.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 13710 138.5 97.8 10114 103.4	15.36 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 58 Outflow none Base 9.28 142.9 140.9 97.8 10114 103.4 94.6	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5 232.1 5238 22.6
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Date for Output Date Starting Date Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rahrfall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Cell Group Cell Cell Cell Cell Cell Cell Cell Cell	sec/yr - - days - km2 cm/yr kg/yr ppb hm3/yr kg/yr ppb hm3/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 138.5 77.0 3424 44.5 #N/A	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 52.2 3348 68.0 #N/A	06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5 85.0 1482 17.4 ##\/A	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079 39.5 #N/A	06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8 10114 103.4 #N/A	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 9.28 140.9 97.8 10114 103.4 97.8 10114 103.4 1677 17.7 ##WA	7	8	9	10	11	12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 197.9 27419 138.5 232.1 5238 22.6 #tt/VA
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Output Duration Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Ranfall Mean ET Cell Inflow Volume Cell Inflow Cond Cell Inflow Cond Cell Inflow Cond Cell Inflow Cond Treated Output Load Child Childrow Conc Upper Confidence Limit Lower Confidence Limit Lower Confidence Limit	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr kg/yr ppb hm3/yr kg/yr ppb ppb	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3424 44.5 #N/A #N/A	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 52.2 3548 68.0 #N/A #N/A 52.2	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5 85.0 1482 17.4 #N/A #N/A	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 4 0utflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079 39.5 #N/A #N/A 52.6	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8 10114 103.4 #N/A #N/A	15.36 06/13/05 01/01/65 01/01/65 12/31/95 12/31/	7	8	9	10		12	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11222 Total - none Base 25.24 142.9 197.9 27419 138.5 232.1 5238 22.6 #N/A #N/A
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Suntace Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Ell Cell Inflow Conc Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outflow Load Treated Outflow Load	sec/yr - - days - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3424 44.5 #N/A 77.0 3424	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 52.2 3548 68.0 #N/A 52.2 3548	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5 85.0 1482 17.4 #N/A 85.0 1482	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11/322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079 30.5 #N/A 52.6 2079	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13870 13870 13870 13870 13870 13870 13870 10114	15.36 06/13/05 07/01/65 07/01/65 17/21/165 11/32/2 58 Outflow none Base 9.28 142.9 140.9 97.8 10114 103.4 94.6 1677 17.7 #WA	7	8	9	10	11	12	15.36 06/13/05 01/01/65 12/31/95 12/31/95 1322 Total - - - - - - - - - - - - - - - - - - -
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Output Duration Output Duration Output Duration Heaverk Simulation Name Simulation Type Surface Area Mean Ranifall Mean ET Cell Inflow Volume Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Total Outflow Unne + Bypass Total Outflow Unne + Bypass	sec/yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/31/95 11/322 1 3 none Base 6.03 142.9 48.5 138.5 142.9 44.5 4855 138.5 77.0 3424 44.5	06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 48.5 6855 138.5 52.2 33548 68.0 #N/A #N/A 52.2 3548 68.0	06/13/05 01/01/65 01/01/65 12/31/95 11/32/5 11/32/5 11/32/5 3 0/utflow none Base 2.83 142.9 77.0 3424 44.5 85.0 1482 17.4 #N/A 85.0 1482 17.4	06/13/05 01/01/65 12/31/95 11/32/2 4 0.utflow none Base 1.01 142.9 52.6 2079 39.5 2 4 0.22 3548 68.0 52.6 2079 39.5 2 52.6 2079 39.5 52.6 2079 39.5 52.6 2079	06/13/05 01/01/65 12/31/95 11/32/2 5A 5B none Base 2:27 142.9 99.0 13710 138.5 97.8 10/14 103.4 #N/A #N/A 97.8 10/114 103.4	15.36 06/13/05 01/01/65 01/01/65 11/322 5B Outflow none Base 9.28 142.9 140.9 97.8 10114 103.4 94.6 1677 17.7 17.7 17.7	7	8	9	10		12	15.36 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 197.9 27419 138.5 232.1 2328 22.6 #NVA #NVA 22.1 28596.2 123.2
Execution Time Run Date Starting Date for Output Barting Date for Output Dupper for Output Dupper Duparition Call Label Downstream Cell Label Dewnstream Cell Label Network Simulation Name Simulation Type Similation Type Similation Type Similation Type Similation Type Similation Type Similation Type Similation Name Cell Inflow Load Cell Inflow Conc Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Upper Confidence Limit Lower Conditiones Limit Patel DWM Outflow Conc	sec/yr - - days - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3424 44.5 #N/A 77.0 3424	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 52.2 3548 68.0 #N/A 52.2 3548	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3424 44.5 85.0 1482 17.4 #N/A 85.0 1482	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11/322 4 Outflow none Base 1.01 142.9 140.9 52.2 3548 68.0 52.6 2079 30.5 #N/A 52.6 2079	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13870 13870 13870 13870 13870 13870 13870 10114	15.36 06/13/05 07/01/65 07/01/65 17/21/165 11/32/2 58 Outflow none Base 9.28 142.9 140.9 97.8 10114 103.4 94.6 1677 17.7 #WA	7	8	9		11	12	15.36 06/13/05 01/01/65 12/31/95 12/31/95 1322 Total - - - - - - - - - - - - - - - - - - -
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Coll Label Downstream Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rahrall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Treated Outflow Load Treated FWM Outflow Conc Upper Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Data Outflow Load + Spass Treat Outflow Conc Uppars In Autor Conc Data Startow Conc	sec/yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/21/95 11/21/95 11/21/95 11/21/95 11/20/95 11/	06/13/05 01/01/65 01/01/65 11/21/95 11/21/95 11/21/95 11/21/95 2 2 4 none Base 3.81 14/2.9 48.5 52.2 3.648 68.5 52.2 35/48 68.0 0 0 0.0 0,078	06/13/05 01/01/65 01/01/65 11/21/95 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/22/195 11/25/195	06/13/05 01/01/65 01/01/65 11/21/95 11/22/195 11/22/9 4 Outflow none Base 1.01 142.9 140.9 52.6 2079 39.5 2079 39.5 2079 39.5 0 0.0 0.89	06/13/05 01/01/65 01/01/65 11/21/95 54 58 none Base 2.27 142.9 98.0 13710 138.5 97.8 10114 103.4 97.8 10114 103.4 0 0.0 1.56	15.36 06/13/05 01/01/85 01/01/85 01/01/85 11/01/85 58 04/10/04 58 58 04/10/04 9.28 9.28 9.28 9.28 9.28 142.9 9.442.9 97.8 10/01/4 10/01/4 94.6 1677 17.7 17.7 0 0.0 0.1.64	7	8	9			12	15.36 06/13/05 01/01/05 01/01/05 12/31/05 12/31/05 12/31/05 12/31/05 12/31/05 12/31/05 12/31/05 12/31/05 12/31/05 12/32 140.5 22/31 22/32 20/32
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Cell Label Nomatication Cell Label Nomatication Types Surtace Area Surtace Area Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated Outflow Load Treated Outflow Volume Treated Outflow Load Treated Outflow Load Treated Outflow Load Date E Spass Load + Spass Load + Spass Load Spass Load Maximum Inflow	secyr - - - - - - - - - - - - -	06/13/05 01/01/65 12/01/05 12/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/000	06/13/05 01/01/65 01/01/65 11/21/195 11/21/195 11/21/195 2 2 4 none Base 3.81 142.9 140.9 48.5 562.2 252.2 562.2 5	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 12/31/95 3 0 04/50 9 14/0.9 77.0 34/24 44.5 85.0 148/2 17.4 #N/A #N/A #N/A 148/2 17.4 148/2 17.4 148/2 17.4 148/2 0 0.0 9 0.93	06/13/05 01/01/65 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 10/1 14/2.9 14/0.3 52.2 35/48 68.0 52.6 2079 33.5 52.6 2079 33.5 5 2079 33.5 0 0 0.0 0.89 0.92	06/13/05 01/01/65 01/01/65 12/21/95 54 58 none 98.0 227 140.9 99.0 137/10 138.5 97.8 10114 103.4 #WA 97.8 10114 103.4 103.4	15.36 06/13/05 01/01/85 10/01/85 12/21/95 12/21/21 12/	7	8	9	10	11	12	15.36 06/13/05 01/01/05 01/01/05 12/31/05 11322 Total nota nota 25.24 142.9 140.9 197.9 27419 138.5 226.4 #NA 202.1 232.1 232.5 #NA 205.1 235.12
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Ending Date Output Call Label Hewtork Simulation Name Simulation Type Surface Area Mean Rainfall Mean ET Call Inflow Volume Call Inflow Canc Upper Confidence Limit Lower Confidence Limit Total Outflow Laad + Spass Total Outflow Volume + Mpass Total Outflow Volume + Massimum Inflow Maximum Inflow	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/20/95 11/	06/13/05 01/01/65 01/01/65 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/20/95 11/	06/13/05 01/01/65 01/01/65 11/21/95 11/22/195 11/22/195 11/22/195 3 0 00/01/06 2.83 14/2.9 14/0.9 77.0 34/24 44.5 85.0 14/82 17.4 85.0 14/82 17.4 85.0 14/82 17.4 0 0.0 0.90 0.93	06/13/05 01/01/65 01/01/65 11/21/95 11/22/195 11/21/95 11/21/95 4 0.00 11/22/195 11/21/95 11/21/95 11/22/95 11/22/95 11/22/95 11/22/95 11/22/95 11/25	06/13/05 01/01/65 01/01/65 11/21/95 54 58 none Base 2.27 142.9 98.0 13710 138.5 97.8 10114 103.4 97.8 10114 103.4 0 0.0 1.56 1.64 3595	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11/322 58 0utflow none Base 9.28 10114 103.4 97.8 10114 103.4 94.6 1677 1177 1677 1177 1677 1777 1677 16	7	8	9	10	11	12	15.36 06/13/05 01/01/05 01/01/05 12/31/05/2 11/02/1 10/02 11/02/1 00/02 25.24 14/2.9 14/0.9 14/0.9 22/1 14/0.9 14/0.9 14/0.9 22/1 22/1 12/2/1 22/2 1/2/2 22/1 1/2/2 22/1 1/2/2 0.0 1/2/2 1/2/2 1/2/2 22/1 1/2/2 1/2/2 1/2/2 22/1 1/2/2 22/1 1/2/2 22/1 1/2/2 22/1 1/2/2 22/1 2/2/2 1/2/2 22/1 2/2/2 1/2/2 2/2/1 2/2/2 2/2/1 2/2/2 2/2/1 2/2/2 2/2/1 2/2/2/2 2/2/2/2 2/2/2/2 2/2/2/2 2/2/2/2 2/2/2/2 2/2/2/2 2/2/2/2/2/2 2/2/2/
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Cell Labeit Domistream Cell Label Nimulation Type Surface Area Surface Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Conc Upper Confidence Limit Lover Confidence Limit Total Outflow Volume + Bypass Total Outflow Volume + Bypass Total Outflow Load + Bypass Dypass Load Bypass Load Bypass Load Maximum Inflow	secyr - - - - - - - - - - - - -	06/13/05 01/01/65 12/01/05 12/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/01/05 12/000	06/13/05 01/01/65 01/01/65 11/21/195 11/21/195 11/21/195 2 2 4 none Base 3.81 142.9 140.9 48.5 562.2 252.2 562.2 5	06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 12/31/95 3 0 04/50 9 14/0.9 77.0 34/24 44.5 85.0 148/2 17.4 #N/A #N/A #N/A 148/2 17.4 148/2 17.4 148/2 17.4 148/2 0 0.0 9 0.93	06/13/05 01/01/65 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 10/1 14/2.9 14/0.3 52.2 35/48 68.0 52.6 2079 33.5 52.6 2079 33.5 5 2079 33.5 0 0 0.0 0.89 0.92	06/13/05 01/01/65 01/01/65 12/21/95 54 58 none 98.0 227 140.9 99.0 137/10 138.5 97.8 10114 103.4 #WA 97.8 10114 103.4 103.4	15.36 06/13/05 01/01/85 10/01/85 12/21/95 12/21/21 12/21 12/21 12/21/21 12/	7	8	9		11	12	15.36 06/13/05 01/01/06 01/01/06 11/31/05 11/32/2 Total Pona Pona Pona Pona Pona Pona Pona Pona
Execution Time Run Date Starting Date for Smulation Starting Date for Output Datarting Date for Output Datarting Date for Output Datarting Date for Output Data Date Data Date Network Simulation Name Simulation Type Surface Area Mean Rantall Denstraam Call Label Network Simulation Name Cell Inflow Load Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Upper Confidence Limit Lows Confidence Limit Lows Confidence Limit Lows Confidence Limit Bypass Load Masamun Naflow Masimum Outflow Masimum Outflow Masimum Outflow Masimum Outflow Masimum Inflow	sec/r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/21/95 11/322 1 3 none Base 6.03 142.9 140.	06/13/05 01/01/65 01/01/65 11/321/65 11/321/2 2 2 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/65 01/01/65 11/21/95 11/32/2 3 Outflow none Base 2.83 142.9 140.9 77.0 8 85 0 140.9 77.0 8 85 0 85 0 85 0 85 0 85 0 85 0 8 140.4 8 140.4 8 140.2 14	06/13/05 01/01/65 01/01/65 11/23/165 11/23/165 11/23/165 11/23/165 Base 0.udlow Base 1.01 14/2.9 14/0.9 52.2 36/48 65.0 55.2 52.2 30.5 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	06/13/05 01/01/65 01/01/65 11/21/195 11/32/2 5A 5B none Base 2.27 142.9 9.0 9.0 13/10 10/10 13/10 10 10/10 10/10 1	15.36 06/13/05 01/01/85 01/01/85 12/31/95 11/322 5B 0-utflow none Base 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.9 9.	7	8	9	10	11	12	15.36 06/13/05 06/13/05 10/10/165 12/13/22 11/13/22 11/13/22 11/13/22 11/13/22 11/13/22 11/13/22 12/2
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Output Duration Output Duration Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Ranfall Mean ET Cell Inflow Cand Cell Inflow Cand Treated Output Cand Samac Lade Receiments Overal Lade Reduction Lower Confidence Limit Uner Confidence Limit Samac Lade Reduction Lower Confidence Limit Upper Confidence Limit	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/21/95 11/22 1 1 3 none Base 643 643 643 643 643 643 643 643 643 643	06/13/05 01/01/65 01/01/65 11/21/95 11/21/95 11/21/95 11/21/95 2 4 4 0.5 11/21/9 11/21/21/9 11/21/9 11/21/21/9 11/21/9 11/21/2	06/13/05 01/01/85 01/01/85 11/21/95 11/32/2 3 0utflow none Base 12/31/95 11/32/2 3 0utflow none Base 12/31/95 12/31/95 12/31/95 14/22 17/4 14/82 17/4 14/82 17/4 14/82 17/4 0 0 0 0 0 0 0 19/42 19/6 19/6 19/6 19/6 19/6 19/6 19/6 19/6	06/13/05 01/01/65 01/01/65 11/21/95 11/222 4 0ufflow none Base none Base 12/21/95 11/22 4 0 00/01/05 12/21/95 12/21/21/95 12/21/21/21/21/21/21/21/21/21/21/21/21/2	06/13/05 01/01/85 01/01/85 11/21/85 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 10/11/4 10/31/97 10/11/4 10/31/97 10/11/4 10/31/97 10/11/4 10/31/97 10/11/4 10/31/97 10/11/45 10/11/45 10/11/65 10/10/85 10/10/85 10/10/85 10/10/85 10/10/85 10/10/85 11/21/97 10/165 10/21/85 1	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11322 58 0-0000 0-0000 0-0000 0-00000 0-0000 0-000000	7	8	9	10	11	12	15.36 06/13/05 06/17/05 07/01/05 12/31/35 113/22 113/22 113/22 113/22 113/22 113/22 113/22 113/22 113/25 113/25 113/25 113/25 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 13/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 113/25 12/27 12/
Execution Time Run Date Starting Date for Cutput Edition Date for Cutput Edition Date Coll Label Downstream Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rantall Mean Rantall Mean Rantall Cell Inflow Load Cell Inflow Conc Upper Confidence Limit Lower Confidence Limit Expass Load Bypass Load Maximum Nathow Maximum Cuthow Surface Load Reduction Load Tapped In Sedments Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Date Reduction Laber Tapped In Sedments Downer Confidence Limit Daby Cenomics Mean	sec)r - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/231/95 11/231/231/95 11/231/25 11/231/95 11/231/95 11/231/95 11/231/95 11/231/95 11/23	06/13/05 01/01/65 01/01/65 11/32/2 2 4 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/85 01/01/85 11/32/31/95 0.000 Base 2.83 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.2 140.9 142.2 140.9 142.2 147.4 0.0 0.0 0.0 0.0 0.0 142.2 142.5 142.2 142	06/13/05 01/01/65 01/01/65 11/21/15 4 00/07 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/85 01/01/85 11/32/2 58 9 9 8 9 8 9 8 9 8 9 8 9 8 9 9 8 0 13/21/85 227 14/2.9 9 8.0 13/710 13/8.5 9 7.8 9 9.0 0 13/710 13/8.5 9 9.0 0 13/8.5 14/2.9 9 9.0 0 13/8.5 14/2.9 9 9.0 13/8.5 14/2.9 9 9.0 13/8.5 14/2.5 14	15.36 06/13/05 01/01/65 01/01/65 12/31/85 11/32 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7	8	9		11	12	15.36 06/13/05 06/11/05 123/13/22 11/02/27 13/22 11/02/27 13/22 11/02/27 14/29 25.24 14/29 25.24 14/29 27.419 27.4
Execution Time Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Ending Date Output Ending Date Output Ending Date Output Downstream Cell Label Downstream Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean R Tanlall Mean ET Cell Inflow Load Cell Inflow Conc Dyper Confidence Limit Lower Confidence Limit Exerce Confidence Limit Surface Load Reduction Load Tapped in Sedments Overall Load Reduction Lower Confidence Limit Lower Confidence Limit Coveral Conference Limit Coveral Confidence Limit Coveral Covera	sec/r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/21/95 11/21/21/95 11/21/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/	06/13/05 01/01/65 01/01/065 11/21/152 2 2 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/85 01/01/85 11/32/31/95 32 00/00/85 11/32/31/95 80/00/85 11/32/31/95 11/32/31 80/00/85 11/32/31	06/13/05 01/01/65 01/01/65 11/32/95 4 2 4 0 0/0/m 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/85 01/01/85 11/32/2 5A 9 8 8 8 8 8 8 8 8 8 8 8 8 9 8 0 11/2 142.9 140.9 9 8.0 0 137.10 138.5 97.8 10/114 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 97.8 10/14 138.5 10/14 10/10	15.36 06/13/05 01/01/65 01/01/65 12/31/85 11/32/85 01/10/86 01/10/86 01/10/86 01/10/86 01/10/86 01/10/86 00/10/86 11/27 11/777	7	8	9			12	15.36 06/13/05 06/11/05 12/31/02 17 07/02 17 07/
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Couput Duration Couput Duration Couput Duration Couput Duration Couput Duration Couput Duration Heavers Finnishikation Name Simulation Type Surface Area Mean Raninal Mean ET Cell Inflow Volume Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Conce Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Cell Inflow Conce Treated Outflow Load Treated Outflow Load Surface Confidence Limit Load Cathow Durate + Bypass Total Outflow Notme + Bypass Total Outflow Notme + Bypass Total Outflow Conce Bypass Load Bypass Load Maximum Inflow Surface Load Reduction Load Trapped In Sodments Overall Load Reduction Load Trapped In Sodments Overall Load Reduction Load Teaped In Sodments Overall Load Reduction Load Teaped Reduction Load Teaped Reduction Couffow Geo Mean - Composites Upper Confidence Limit	sec/r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/322 1 3 000 Base 6.03 14/2.9 1402.9 2405.5 14/2.9 2605.5 2605.5 277.0 372.0 372.0 372.0 372.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	06/13/05 01/01/65 01/01/65 11/322 2 2 4 4 000 Base Base Base Base 3.81 142.9 40.5 40.5 40.5 582.5 584.5 684.5 684.5 884.	06/13/05 01/01/85 01/01/85 01/01/85 11/322 0utflow Dutflow Base 2.83 14/2.9 14/0.9 77.0 34/4 85.0 15, 85.0 15, 85.0 15, 85.0 17, 44.5 85.0 17, 44.5 85.0 17, 44.5 85.0 17, 44.5 85.0 17, 44.5 85.0 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	06/13/05 01/01/65 01/01/65 11/12/21/15 01/01/65 11/12/21 01/01/05 88 00/01/06 88 00/01/00/06 88 00/01/00/06 88 00/01/00/06 88 00/01/00/06 88 00/01/00/06 88 00/01/00/06 88 00/01/00/06 88 00/01/00/06 88 00/01/00/06 88 00/01/00/06 88 00/01/00/06 88 00/00/00/00/00/00/00/00/00/00/00/00/00/	06/13/05 01/01/85 01/01/85 01/01/85 84 05 88 05 88 05 88 05 88 05 88 05 88 05 88 05 142.9 90.0 90.0 90.0 90.0 90.0 97.8 10114 1014 1014 1014 1014 1014 1014 10	15.36 06/13/05 01/01/85 01/01/85 12/31/95 11/322 58 9.28 9.28 9.28 9.28 9.28 9.28 9.28 9.2	7	8	9		11	12	15.36 06/13/05 06/13/05 01/01/65 01/01/65 12/31/95 11/322 Totals 11/322 Totals 25.24 142.9 197.9 27.419 138.5 12/27.419 138.5 12/27.419 138.5 222.1 222.1 222.1 222.1 222.1 222.1 222.1 23.6 22.1 24.0 25.2 4 24.0 25.2 25.0 25.2 25.2 25.2 25.2 25.2 25
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Coll Label Downstream Cell Label Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Rahrall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Upper Confidence Limit Lower Contidence Limit Lower Contidence Limit Lower Contidence Limit Lower Contidence Limit Surface Laad Reduction Lad Reduction Lad Reduction Lad Reduction Lad Reduction Lower Confidence Limit Upper Confidence Limit Upper Confidence Limit Lower Co	sec/rt - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/21/95 11/21/21/95 11/21/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/95 11/21/	06/13/05 01/01/65 01/01/065 11/21/152 2 2 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/065 01/01/065 01/01/065 11/3222 3 0 000000 000000 12/31/06 12/31/06 12/31/06 12/31/06 14/2.9 14/0.9 1	06/13/05 01/01/65 01/01/65 11/32/95 4 2 00/00 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/85 01/01/85 11/32/2 5 A 9 8 9 8 9 8 9 8 9 8 0 11/42.9 14/0.9 9 8.0 13/710 13/8.5 9 7.8 9 9.0 0 13/710 13/8.5 9 7.8 10/114 10/01/8 9 9.0 0 13/8.5 11/22 14/2.9 9 9.0 0 13/8.5 11/22 14/2.9 9 9.0 0 13/8.5 11/22 14/2.9 9 9.0 0 13/8.5 11/22 19/9.5 11/22 19/9.5 11/22 19/9.5 11/22 19/9.5 11/22 19/9.5 11/22 19/9.5 11/22 19/9.5 11/22 19/9.5 11/22 19/9.5 11/22 19/9.5 11/22 11/22 19/9.5 11/22 11/	15.36 06/13/05 01/01/65 01/01/65 12/31/85 11322 0080 0080 0080 0080 0080 0080 0080 0	7	8	9		11		15.36 06/13/05 06/13/05 10.01/05 12.35/19/22 11.01/22 11.01/22 11.01/22 12.01/22 12.01/22 12.01 12.01/22 12.01 12.
Execution Time Run Date Starting Date for Smulation Starting Date for Output Data for Duput Duput Duration Call Label Downstream Cell Label Dewnstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Raintal Demostream Cell Inflow Cell Inflow Load Cell Inflow Load Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Upper Confidence Limit Data Conflow Load Dypass Load Bypass Load Bypass Load Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Conference Limit Upper Confidence Limit Preguancy Outflow Conc > 0 ppb Frequency Cuthow Conc > 0 ppb	sec/rt - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/31/85 11/32 1 3 00/86 88 6 03 14/2.9 14/0.9 14/2.9 14/0.9 14/2.9 14/0.9 14/2.9 14/0.9 14/2.9 14/2.0 17/7.0 14/2.0 17/7.0 14/2.1 14/2.1 14	06/13/05 01/01/65 01/01/65 11/32/3 2 2 4 4 00ne Base Base Base Base 3.81 142.9 40.5 5 8635 5 322 40.5 5 822 3548 68.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06/13/05 01/01/85 01/01/85 11/322 0 utflow Doutflow Base 2.83 14/2.9 14/0.9 77.0 486 486 486 486 486 486 486 486 486 486	06/13/05 01/01/65 01/01/65 11/32/6 01/01/65 11/32/6 01/01/65 11/32/6 01/01/65 11/32/6 01/01/65 11/32/6 01/01/65 01/01/01/65 01/01/01/65 01/01/01/65 01/01/01/65 01/01/01/65 01/01/01/65	06/13/05 01/01/85 01/01/85 01/01/85 11/32/13/85 84 85 88 88 88 88 88 88 88 88 88 88 88 99.0 13/10 13/15 99.0 13/10 13/15 99.0 13/10 13/15 99.0 13/10 13/15 99.0 13/10 13/15 99.0 13/10 13/15 13/15 99.0 13/10 13/15 99.0 13/10 13/15 13/15 99.0 13/15 13/15 99.0 13/15 13/15 99.0 13/15 13/15 99.0 13/15 13/15 99.0 13/15 13/15 99.0 13/15	15.36 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11/322 58 928 928 928 928 928 928 928 928 928 92		8	9		11	12	15.36 06/13/05 06/11/65 1212022 11322 11322 11322 11322 11322 12523 1423 1425 12524 1425 12524 1425 12524 1425 12524 1425 12524 1232 1232 1232 1232 1232 1232 1232 12
Execution Time Rxin Date Starting Date for Sinulation Starting Date for Output Edition Date for Output Edition Date for Output Edition Downstream Cell Label Downstream Cell Label Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Raintal Mean Edit Inflow Load Cell Inflow Conc Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Dyper Confidence Intit Lower Confidence Dypass Load Bypass Load Bypass Load Rainman Cutflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Cell Dayl Concentre Lower Confidence Limit Lower Confidence Li	sec/rt - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/21/85 11/21/85 11/21/85 886 6.03 11/22 11/21/85 8855 6.03 11/22 11/21/85 8855 6.03 11/22 11/21/85 8855 11/22	06/13/05 01/01/65 01/01/65 11/32/31/65 11/32/3 2 2 4 4 4 5 8 8 8 8 5 5 12/32 4 9 5 2 6 8 8 5 5 138.2 142.9 140.9 49.5 6 8 8 9 8 8 5 5 138.2 148.2 148.	06/13/05 0/10/165 0/10/165 11/322 0/01/65 11/322 0/01/65 Base 2.83 142.9 140.9 77.0 3424 44.5 850 142.9 140.9 77.0 3424 44.5 850 1422 17.4 44.5 850 1482 17.4 850 1482 17.4 850 1482 17.4 850 1482 17.4 850 1482 17.4 850 1482 17.4 850 1482 17.4 850 1482 17.4 850 1482 17.4 850 1482 17.4 850 140	06/13/05 01/01/65 01/01/65 11/32/05 11/32/05 01/01/65 11/32/05 Base 10/01/65 Base 10/01/65 12/31/05 83.0 50 52.2 30.5 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	06/13/05 01/01/85 01/01/85 11/32/2 5 A 9 8 9 8 9 8 9 8 9 8 0 11/42 9 9 8 0 13/8.5 9 7 8 9 8 0 13/8.5 9 7 8 9 8 0 13/8.5 9 8 0 13/8.5 9 8 0 13/8.5 9 8 0 13/8.5 14/2.9 9 8 0 0 13/8.5 14/2.5 9 8 0 13/8.5 14/2.5 14/2 19/8 9 8 0 13/8.5 14/2.5 14/2 19/8 1 12/2 19/8 19/8 19/8 19/8 19/8 19/8 19/8 19/8	15.36 06/13/05 01/01/65 01/01/65 12/31/85 11322 0080 0080 0080 0080 0080 0080 0080 0	7	8	9			12	15.36 06/13/05 06/13/05 10.01/05 12.35/19/22 11.01/22 11.01/22 11.01/22 12.01/22 12.01/22 12.01 12.01/22 12.01 12.
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Ending Date Output Date for Output Starting Date for Output Hetwork Simulation Name Simulation Type Surface Area Mean Rahfall Mean ET Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Call Call Call Call Call Call Call Call Call Call	sec/r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/2 1 3 0000 8 8 8 6 0.3 142.9 140.9 8 8 8 6 0.3 142.9 140.9 142.9 405 142.9 405 142.9 405 142.9 405 178.0 0 0 0.7 8 40.0 178.0 179.0 170	06/13/05 01/01/65 01/01/65 01/01/65 11/122 2 2 4 4 000 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/85 01/01/85 01/01/85 11/122 21/31/05 11/122 21/32 01/85 Base 2.83 14/2.9 14/0.9 14/2.	06/13/05 01/01/65 01/01/65 01/01/65 11/142 01/01/65 11/142 01/01/65 11/142 01/01/65 01/01/01/65 01/01/01/65 01/01/01/65 01/01/01/65 01/01/01/65 01/	06/13/05 01/01/85 01/01/85 11/32/2 5 A 9 9 12/31/95 11/32/2 5 A 9 8 9 8 9 8 9 8 9 8 9 8 9 8 0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 15 9 7.0 13/8 5 9 8.0 10/14 13/8 5 9 8.0 13/8 5 9 8.0 13/8 5 9 8.0 10/14 10/15 10/16 5 10/16	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11/322 8 9.28 9.28 142.9 142.9 144.9 9.28 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144	7	8	9			12	15.36 06/13/05 06/17/05 07/07/05 12/37/19/22 113/22 113/22 113/22 113/22 113/22 113/22 113/22 113/22 113/22 113/22 113/22 113/22 123/2 113/22 123/2 123/2 123/2 123/2 0 0 23/21 123/2 0 0 23/21 123/2 0 0 23/21 123/2 123/2 0 0 23/21 123/2 123/
Execution Time Rxin Date Starting Date for Sinulation Starting Date for Output Edition Date for Output Edition Date for Output Edition Downstream Cell Label Downstream Cell Label Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Raintal Mean Edit Inflow Load Cell Inflow Conc Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Dyper Confidence Intit Lower Confidence Dypass Load Bypass Load Bypass Load Rainman Cutflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Cell Dayl Concentre Lower Confidence Limit Lower Confidence Li	sec/r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/21/95 11/21/21/95 11/21/21/95 11/21/21/21/21/21/21/21/21/21/21/21/21/2	06/13/05 01/01/65 01/01/65 11/21/165 11/22/12 2 4 4 4 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/85 01/01/85 01/01/85 11/32/31/95 00/06/97 Base 2.83 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9	06/13/05 01/01/65 01/01/65 11/21/15 11/22 4 Outflow Base 1.01 14/2.9 140.9 52.2 3848 68.0 550 52.2 39.5 39.5 39.5 0 0.0 89.5 0 0.0 89.5 0 0.0 89.5 0 0.0 89.5 0 0.0 89.5 0 0.0 89.5 80.5 80.5 80.5 80.5 80.5 80.5 80.5 80	06/13/05 01/01/85 01/01/85 11/32/2 5 A 9 9 12/31/95 11/32/2 5 A 9 8 9 8 9 8 9 8 9 8 9 8 9 8 0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 15 9 7.0 13/8 5 9 8.0 10/14 13/8 5 9 8.0 13/8 5 9 8.0 13/8 5 9 8.0 10/14 10/15 10/16 5 10/16	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11/322 8 9.28 9.28 142.9 142.9 144.9 9.28 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144		8	9		11		15.36 06/13/05 06/13/05 10/10/165 12/13/22 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 12/
Execution Time Rxin Date Starting Date for Sinulation Starting Date for Output Edition Date for Output Edition Date for Output Edition Downstream Cell Label Downstream Cell Label Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Raintal Mean Edit Inflow Load Cell Inflow Conc Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Dyper Confidence Intit Lower Confidence Dypass Load Bypass Load Bypass Load Rainman Cutflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Cell Dayl Concentre Lower Confidence Limit Lower Confidence Li	sec/r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/322 1 3 3 000 8 8 8 6 03 142.9 140.9 405 402.9 140.9 405 402.9 405 402.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40	06/13/05 01/01/65 01/01/65 01/01/65 11/12/2 4 4 4 000 8 8 8 4 4 000 14/2 3 8 4 4 000 14/2 3 8 4 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5 8 5	06/13/05 01/01/85 01/01/85 01/01/85 11/12/23 21/31/95 11/12/23 01/85 01/85 01/85 11/12/23 01/85 01/85 11/12/23 23/05 11/22 23/05 11/22 23/05 11/22 23/05 11/22 24/95 25/75 11/25 11/25 24/95 21/	06/13/05 01/01/65 01/01/65 01/01/65 11/12/2 4 0.000 Base 1.01 14/2.9 14/0.9 52/0 2079 30.5 2079 30.5 2079 30.5 2079 30.5 2079 30.5 2079 30.5 2079 30.5 2079 30.5 2079 30.5 20,0 20,0 20,0 20,0 20,0 20,0 20,0 20,	06/13/05 01/01/85 01/01/85 11/32/2 5 A 9 9 12/31/95 11/32/2 5 A 9 8 9 8 9 8 9 8 9 8 9 8 9 8 0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 142.9 9 8.0 13/2 15 9 7.0 13/8 5 9 8.0 10/14 13/8 5 9 8.0 13/8 5 9 8.0 13/8 5 9 8.0 10/14 10/15 10/16 5 10/16	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11/322 8 9.28 9.28 142.9 142.9 144.9 9.28 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144	7	8	9			12	15.36 06/13/05 07/07/05 12/13/22 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 12/32/2 12/32/2 12/32/2 25.24 12/32/2 12/32/2 22.6 20/0 20/0 20/0 20/0 20/0 20/0 20/0 20/
Execution Time Rxin Date Starting Date for Sinulation Starting Date for Output Edition Date for Output Edition Date for Output Edition Downstream Cell Label Downstream Cell Label Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Raintal Mean Edit Inflow Load Cell Inflow Conc Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Dyper Confidence Intit Lower Confidence Dypass Load Bypass Load Bypass Load Rainman Cutflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Cell Dayl Concentre Lower Confidence Limit Lower Confidence Li	sec/r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/21 1 3 0000 Base 6.03 11/22 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 144.9 142.9 143.9 144.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 143.9 144.9	06/13/05 01/01/65 01/01/65 11/02/21 2 4 4 000 Base Base Base Base Base Base Base Base	06/13/05 01/01/85 01/01/85 01/01/85 11/322 0.000 8.000 0.000 8.000 8.000 8.000 8.000 142.9 140.9 77.0 340.9 77.0 1482 17.4 85.0 0 0.0 0 0.0 3 1942 142.9 77.0 0 0.0 0 0.0 3 1942 142.9 77.0 142.2 142.9 77.0 142.2 142.9 77.0 142.2 142.9 77.0 142.2 17.0 142.2 142.9 77.0 142.2 142.2 142.3 143.5 145.5 143.5 145.5	06/13/05 01/01/65 01/01/65 11/22 4 00/01/65 11/22 4 00/01/65 11/22 4 00/01/65 8 00/01/65 8 2 2 2 3 3 4 00/01/65 8 2 2 3 3 4 00/01/65 8 2 2 3 3 3 4 00/01/65 8 2 2 3 3 3 4 00/01/65 8 2 2 3 3 3 4 00/01/65 8 2 2 3 3 3 4 0 2 2 3 3 3 4 0 2 2 0 7 3 3 3 5 2 2 6 2 2 3 3 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06/13/05 01/01/85 01/01/85 01/01/85 11/32/13/85 84 85 88 88 88 88 88 88 88 93 940.94	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11/322 8 9.28 9.28 142.9 142.9 144.9 9.28 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144		8	9				15.36 06/13/06 06/17/06 10/07/06 12/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 12/2
Execution Time Rxin Date Starting Date for Sinulation Starting Date for Output Edition Date for Output Edition Date for Output Edition Downstream Cell Label Downstream Cell Label Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Raintal Mean Edit Inflow Load Cell Inflow Conc Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Dyper Confidence Intit Lower Confidence Dypass Load Bypass Load Bypass Load Rainman Cutflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Cell Dayl Concentre Lower Confidence Limit Lower Confidence Li	sec/r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/21 1 3 0000 Base 6.03 11/22 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 144.9 142.9 143.9 144.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 143.9 144.9	06/13/05 01/01/65 01/01/65 11/21/165 11/21/165 11/22 2 2 4 4 4 4 5 8 8655 5 22.2 3648 8 3.81 142.9 140.9 49.5 5 22.2 3548 8 80.0 0 0.0 7 8 3548 8 8.0 0 0.0 7 8 3548 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	06/13/05 01/01/85 01/01/85 01/01/85 11/322 0.000 8.000 0.000 8.000 8.000 8.000 8.000 142.9 140.9 77.0 340.9 77.0 1482 17.4 85.0 0 0.0 0 0.0 3 1942 142.9 77.0 0 0.0 0 0.0 3 1942 142.9 77.0 142.2 142.9 77.0 142.2 142.9 77.0 142.2 142.9 77.0 142.2 17.0 142.2 142.9 77.0 142.2 142.2 142.3 143.5 145.5 143.5 145.5	06/13/05 01/01/65 01/01/65 11/22 4 00/01/65 11/22 4 00/01/65 11/22 4 00/01/65 8 00/01/65 8 2 2 2 3 3 4 00/01/65 8 2 2 3 3 4 142.9 2 3 3 4 0 2 2 3 3 3 4 0 2 2 0 7 3 3 3 5 2 2 6 2 2 3 3 3 4 0 0 2 2 0 7 3 3 3 5 2 2 6 2 2 3 3 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06/13/05 01/01/85 01/01/85 01/01/85 11/32/13/85 84 85 88 88 88 88 88 88 88 93 940.94	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11/322 8 9.28 9.28 142.9 142.9 144.9 9.28 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144	7	8	9			12	15.36 06/13/06 06/17/06 10/07/06 12/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 12/2
Execution Time Rxin Date Starting Date for Sinulation Starting Date for Output Edition Date for Output Edition Date for Output Edition Downstream Cell Label Downstream Cell Label Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Raintal Mean Edit Inflow Load Cell Inflow Conc Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Dyper Confidence Intit Lower Confidence Dypass Load Bypass Load Bypass Load Rainman Cutflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Cell Dayl Concentre Lower Confidence Limit Lower Confidence Li	sec/r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/21 1 3 0000 Base 6.03 11/22 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 144.9 142.9 143.9 144.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 143.9 144.9	06/13/05 01/01/65 01/01/65 11/02/21 2 4 4 000 Base Base Base Base Base Base Base Base	06/13/05 01/01/85 01/01/85 01/01/85 11/322 0.000 8.000 0.000 8.000 8.000 8.000 8.000 142.9 140.9 77.0 340.9 77.0 1482 17.4 85.0 0 0.0 0 0.0 3 1942 142.9 77.0 0 0.0 0 0.0 3 1942 142.9 77.0 142.2 142.9 77.0 142.2 142.9 77.0 142.2 142.9 77.0 142.2 17.0 142.2 142.9 77.0 142.2 142.2 142.3 143.5 145.5 143.5 145.5	06/13/05 01/01/65 01/01/65 11/22 4 00/01/65 11/22 4 00/01/65 11/22 4 00/01/65 8 00/01/65 8 2 2 2 3 3 4 00/01/65 8 2 2 3 3 4 142.9 2 3 3 4 0 2 2 3 3 3 4 0 2 2 0 7 3 3 3 5 2 2 6 2 2 3 3 3 4 0 0 2 2 0 7 3 3 3 5 2 2 6 2 2 3 3 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06/13/05 01/01/85 01/01/85 01/01/85 11/32/13/85 84 85 85 88 88 88 88 88 88 88 88 97,8 97,8 97,8	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11/322 8 9.28 9.28 142.9 142.9 144.9 9.28 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144		8	9		11		15.36 06/13/05 07/07/05 12/13/22 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 11/32/2 12/32/2 12/32/2 12/32/2 25.24 12/32/2 12/32/2 22.6 20/0 20/0 20/0 20/0 20/0 20/0 20/0 20/
Execution Time Rxin Date Starting Date for Sinulation Starting Date for Output Edition Date for Output Edition Date for Output Edition Downstream Cell Label Downstream Cell Label Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Raintal Mean Edit Inflow Load Cell Inflow Conc Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Load Dyper Confidence Intit Lower Confidence Dypass Load Bypass Load Bypass Load Rainman Cutflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Inflow Maximum Cell Dayl Concentre Lower Confidence Limit Lower Confidence Li	sec/r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/21 1 3 0000 Base 6.03 11/22 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 144.9 142.9 143.9 144.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 143.9 144.9	06/13/05 01/01/65 01/01/65 11/02/21 2 4 4 000 Base Base Base Base Base Base 3.81 14/2.9 40.5 52,2 52,2 52,2 52,4 685,5 52,2 52,4 685,5 52,2 52,2 52,4 685,5 75,2 52,2 52,2 52,2 52,2 52,2 53,4 848,6 6,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0,0 0	06/13/05 01/01/85 01/01/85 01/01/85 11/322 0.000 8.000 0.000 8.000 8.000 8.000 8.000 142.9 142.9 140.9 77.0 340.9 77.0 1482 17.4 85.0 1482 17.4 85.0 0 0.0 0 0.0 3 1942 2196 57% 0 0.0 0 0.0 3 1942 2196 57% 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	06/13/05 01/01/65 01/01/65 11/22 4 00/01/65 11/22 4 00/01/65 11/22 4 00/01/65 8 00/01/65 8 2 2 2 3 3 4 00/01/65 8 2 2 3 3 4 142.9 2 3 3 4 0 2 2 3 3 3 4 0 2 2 0 7 3 3 3 5 2 2 6 2 2 3 3 3 4 0 0 2 2 0 7 3 3 3 5 2 2 6 2 2 3 3 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	06/13/05 01/01/85 01/01/85 01/01/85 11/32/13/85 84 85 85 88 88 88 88 88 88 88 88 97,8 97,8 97,8	15.36 06/13/05 01/01/65 01/01/65 12/31/95 11/322 8 9.28 9.28 142.9 142.9 144.9 9.28 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144.9 9.78 142.9 144		8	9				15.36 06/13/06 06/17/06 10/07/06 12/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 11/222 12/2

#### Table C.2 Results of DMSTA2 Analysis, STA-1W, Alternative 1



#### Table C.3 Results of DMSTA2 Analysis, STA-1W Existing Design, Alternative 2

Input Variable	Units	Value	Case Descripti	ion:										
Design Case Name	-	Alt2	Existing, Cells	s 1,2 & 5AEme	ergent & Cell 3,4	& 5BSAV_3								1
Input Series Name Starting Date for Simulation		TS_STA 01/01/65	Alternative 2		ced Outflow Cor									
Ending Date for Simulation	-	12/31/95			iase Cell 3 Area									
Starting Date for Output	-	01/01/65												
Integration Steps Per Day	-	3	Simulation Type	9:	Base									
Number of Iterations Output Averaging Interval	- days	3	Output Variable FWM Outflow	B C (esh)	Mean 16.1	Lower CL #N/A	Upper CL #N/A		Diagnostics	rror Mean & Ma		0.0%	0.0%	
Inflow Conc Scale Factor	uays -	1	GM Outflow C		12.2	#N/A #N/A	#N/A			Error Mean & Ma		0.3%	0.9%	
Rainfall P Conc	ppb	10	Load Reductio	n %	87%	#N/A	#N/A		Iterations & Co	nvergence		3	0.0%	
Atmospheric P Load (Dry)	mg/m2-yr	20	Bypass Load (	%)	0.0%	_		_	Warning/Error	Messages		7		
Cell Number> Cell Label		1	2	3	4	5 5A	6 5B	7	8	9	10	11	12	n
Vegetation Type	>	EMG 3	EMG 3	SAV 3	SAV 3	EMG 3	SAV 3							
Inflow Fraction		0.39	0.2			0.41								
Downstream Cell Number		3	4			6								
Surface Area Mean Width of Flow Path	km2 km	3.02 1.10	1.91 1.74	5.85 2.48	2.91 1.83	2.27 1.78	9.28 2.34							
Number of Tanks in Series	-	2.0	2.0	4.0	6.0	2.0	3.0							
Minimum Depth for Releases	cm													1
Release 1 Series Name														
Release 2 Series Name Outflow Series Name														
Depth Series Name														
Outflow Control Depth	cm	55	67	46	60	60	60							
Outflow Weir Depth	cm													
Outflow Coefficient - Exponent Outflow Coefficient - Intercept	-	2.35 1.24	2.51 1.38	2.5 1.03	2.5 1.28	2.49 2.75	2.25 3.78							
Bypass Depth	cm	1.2.4	1.00	1.00	1.20	2.70	0.10							
Maximum Inflow	hm3/day													
Maximum Outflow	hm3/day	0.04000	0.005.47	0.00070	0.00405									
Inflow Seepage Rate Inflow Seepage Control Elev	(cm/d) / cm cm	0.01038	0.00547	0.00676	0.00485 82				1					
Inflow Seepage Conc	ppb	20	20	20	20	20	20							
Outflow Seepage Rate	(cm/d) / cm	0.00346		0.00173		0.01577	0.00496		1					
Outflow Seepage Control Elev	cm	43 20	20	40 20	20	-46 20	-46 20							
Max Outflow Seepage Conc Seepage Recycle to Coll Number	ppb	20	20	20	20	20	20							
Seepage Recycle to Cell Number Seepage Recycle Fraction					I	0.91	0.8		1					
Seepage Discharge Fraction	-													
Initial Water Column Conc	ppb	30	30	30	30	30	30							
Initial P Storage Per Unit Area Initial Water Column Depth	mg/m2 cm	500 50	500 50	500 50	500 50	500 50	500 50							
C0 = Conc at 0 g/m2 P Storage	ppb	3	3	3	3	3	3							
C1 = Conc at 1 g/m2 P storage	ppb	22	22	22	22	22	22							
C2 = Conc at Half-Max Uptake	ppb	300	300	300	300	300	300							
K = Net Settling Rate at Steady State Z1 = Saturated Uptake Depth	m/yr cm	16.8 40	16.8 40	52.5 40	52.5 40	16.8 40	52.5 40							
Z2 = Lower Penalty Depth	cm	100	100	100	100	100	100							
Z3 = Upper Penalty Depth	cm	200	200	200	200	200	200	-						
Output Variables	Units	1	2	3	4	5	6	7	8	9	10	11	12	Overall
Execution Time	sec/yr	18.00	18.94	20.29	22.00	23.00	24,55		<b>1</b>	9	10	<u> </u>	12	24.55
Run Date	-	06/13/05	06/13/05	06/13/05	06/13/05	06/13/05	06/13/05							06/13/05
Starting Date for Simulation	-	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65							01/01/65
Starting Date for Output Ending Date	-	01/01/65 12/31/95	01/01/65 12/31/95	01/01/65 12/31/95	01/01/65 12/31/95	01/01/65 12/31/95	01/01/65 12/31/95							01/01/65 12/31/95
Output Duration	- days	12/31/95	12/31/95	12/31/95	12/31/95	12/31/95	12/31/95							12/31/95 11322
Cell Label	dayo	1	2	3	4	5A	5B							Total
Downstream Cell Label		3	4	Outflow	Outflow	5B	Outflow							-
Network Simulation Name Simulation Type	-	none Base	none Base	none Base	none Base	none Base	none Base							none Base
Surface Area	km2	3.02	1.91	5.85	2.91	2.27	9.28							25.24
Mean Rainfall	and but	142.9	142.9	142.9	142.9	142.9	142.9							142.9
Mean ET Cell Inflow Volume	cm/yr		142.0											
	cm/yr	140.9	140.9	140.9	140.9	140.9	140.9							140.9
Cell Inflow Load	cm/yr hm3/yr	140.9 77.2	142.5 140.9 39.6 5484	140.9 90.6	40.9	81.2	80.0							197.9
Cell Inflow Load Cell Inflow Conc	cm/yr hm3/yr kg/yr	140.9 77.2 10694 138.5	140.9 39.6 5484 138.5	140.9 90.6 7825 86.4	40.9 3532 86.3		80.0 7820 97.8							140.9 197.9 27419 138.5
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume	cm/yr hm3/yr kg/yr ppb hm3/yr	140.9 77.2 10694 138.5 90.6	140.9 39.6 5484 138.5 40.9	140.9 90.6 7825 86.4 106.7	40.9 3532 86.3 42.2	81.2 11242 138.5 80.0	80.0 7820 97.8 76.8							197.9 27419 138.5 225.6
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Load	cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr	140.9 77.2 10694 138.5 90.6 7825	140.9 39.6 5484 138.5 40.9 3532	140.9 90.6 7825 86.4 106.7 1816	40.9 3532 86.3 42.2 688	81.2 11242 138.5 80.0 7820	80.0 7820 97.8 76.8 1127							197.9 27419 138.5 225.6 3632
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc	cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb	140.9 77.2 10694 138.5 90.6	140.9 39.6 5484 138.5 40.9	140.9 90.6 7825 86.4 106.7 1816 17.0	40.9 3532 86.3 42.2 688 16.3	81.2 11242 138.5 80.0	80.0 7820 97.8 76.8							197.9 27419 138.5 225.6 3632 16.1
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Upper Confidence Limit Lower Confidence Limit	cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb ppb	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A	40.9 3532 86.3 42.2 688 16.3 #N/A #N/A	81.2 11242 138.5 80.0 7820 97.8 #N/A #N/A	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A							197.9 27419 138.5 225.6 3632 16.1 #N/A #N/A
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Upper Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass	cm/yr hm3/yr ppb hm3/yr kg/yr ppb ppb ppb hm3/yr	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A 90.6	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 40.9	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A 106.7	40.9 3532 86.3 42.2 688 16.3 #N/A #N/A 42.2	81.2 11242 138.5 80.0 97.8 #N/A #N/A 80.0	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A 76.8							197.9 27419 138.5 225.6 3632 16.1 #N/A #N/A 225.6
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated PVM Outflow Conc Upper Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass Total Outflow Load + Bypass	cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb ppb hm3/yr kg/yr	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A 90.6 7825	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 40.9 3532	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A 106.7 1816	40.9 3532 86.3 42.2 688 16.3 #N/A #N/A 42.2 688	81.2 11242 138.5 80.0 97.8 #N/A #N/A 80.0 7820	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A 76.8 1127							197.9 27419 138.5 225.6 3632 16.1 #N/A #N/A 225.6 28500.3
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FWM Outflow Conc Upper Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass Total Outflow Volume + Bypass Total FWM Outflow Conc	cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb hm3/yr kg/yr ppb	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A #N/A 90.6 7825 86.4	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A #N/A 40.9 3532 86.3	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A #N/A 106.7 1816 17.0	40.9 3532 86.3 42.2 688 16.3 #N/A #N/A 42.2 688 16.3	81.2 11242 138.5 80.0 7820 97.8 #N/A #N/A 80.0 7820 97.8	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A 76.8 1127 14.7							197.9 27419 138.5 225.6 3632 16.1 #N/A #N/A 225.6 28500.3 126.3
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated PVIM Outflow Load Treated FVIM Outflow Load Lower Confidence Limit Lower Confidence Limit Total Outflow Volume + 8 passs Total Outflow Volume + 4 passs Total Outflow Load + 8 pass Total FVIM Outflow Conc Bypass Load Bypass Load	cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb hm3/yr kg/yr ppb kg/yr %	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A #N/A 90.6 7825 86.4 0 0.0	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 40.9 3532 86.3 0 0.0	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A 106.7 1816 17.0 0 0.0	40.9 3532 86.3 42.2 688 16.3 #N/A #N/A 42.2 688 16.3 0 0.0	81.2 11242 138.5 80.0 97.8 #N/A #N/A 80.0 7820 97.8 0 97.8 0 0.0	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A 76.8 1127 14.7 0 0.0							197.9 27419 138.5 225.6 3632 16.1 #N/A #N/A 225.6 28500.3 126.3 0.0 0.0
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Usad Treated FVM Outflow Conc Upper Confidence Limit Lower Confidence Limit Date	cmýr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb hm3/yr kg/yr ygb kg/yr % hm3/d	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A 90.6 7825 86.4 0 0.0 0.0 1.22	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 40.9 3532 86.3 0 0.0 0.62	140.9 90.6 7825 86.4 106.7 1816 17.0 #NVA 106.7 1816 17.0 0 0.0 0.0 1.31	40.9 3532 86.3 42.2 688 16.3 #N/A #N/A 42.2 688 16.3 0 0.0 0.68	81.2 11242 138.5 80.0 7820 97.8 #N/A #N/A #N/A 80.0 7820 97.8 0 0.0 1.28	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A 76.8 1127 14.7 0 0.0 1.34							197.9 27419 138.5 225.6 3632 16.1 #N/A #N/A #N/A 225.6 28500.3 126.3 0.0 0.0 3.12
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated FVMN Outflow Conc Upper Confidence Limit Lower Confidence Limit Total Outflow Volume + 8 passs Total Outflow Volume + 4 passs Total Outflow Volume + 4 passs Total FVM Outflow Conc Bypass Load Bypass Load Maximum Inflow Maximum Outflow	cm/yr hm3/yr ppb hm3/yr ppb ppb ppb hm3/yr kg/yr % hm3/d hm3/d	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A 90.6 7825 86.4 0 0.0 1.22 1.31	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 40.9 3532 86.3 0 0.0 0.0 0.62 0.68	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A 106.7 1816 17.0 0 0.0 1.31 1.34	40.9 3532 86.3 42.2 688 16.3 #N/A 42.2 688 16.3 0 0.0 0.0 0.68 0.77	81.2 11242 138.5 80.0 97.8 #N/A 80.0 7820 97.8 80.0 7820 97.8 0 0.0 1.28 1.34	80.0 7820 97.8 76.8 1127 14.7 #N/A 76.8 1127 14.7 0 0.0 1.34 1.50							197.9 27419 138.5 225.6 3632 16.1 #NVA #NVA 225.6 28500.3 126.3 0.0 0.0 3.12 3.61
Cell Inflow Load Cell Inflow Con Treated Outflow Volume Treated Outflow Usad Treated FVM Outflow Conc Upper Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass Total Outflow Volume + Bypass Total Outflow Conc Bypass Load Maximum flow Maximum Outflow Surface Load Reduction	cmýr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb hm3/yr kg/yr % hm3/d hm3/d kg/yr	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A 90.6 7825 86.4 0 0.0 1.22 1.31 2869	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 40.9 3532 86.3 0 0.0 0.62 0.68 1952	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A 106.7 1816 17.0 0 0.0 1.31 1.34 6008	40.9 3532 86.3 42.2 688 16.3 #N/A #N/A 42.2 688 16.3 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	81.2 11242 138.5 80.0 97.8 #N/A #N/A #N/A 80.0 97.8 0 97.8 0 0.0 1.28 1.34 3422	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A #N/A 76.8 1127 14.7 0 0.0 1.34 1.50 6692							197.9 27419 138.5 225.6 3632 16.1 #NVA 225.6 28500.3 126.3 0.0 0.0 3.12 3.61 23787
Cell Inflow Load Cell Inflow Load Treated Outflow Volume Treated Outflow Usad Treated FVM Outflow Load Treated FVM Outflow Load Lower Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass Total Outflow Volume + Bypass Total FVM Outflow Conc Total FVM Outflow Conc Date FVM Outflow Conc Bypass Load Maximum Outflow Maximum Outflow Surface Load Reduction Load Trapped in Sediments Overall Load Reduction	emýr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb hm3/yr kg/yr kg/yr kg/yr kg/yr kg/yr kg/yr kg/yr kg/yr	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A 90.6 7825 86.4 0 0.0 1.22 1.31 2869 3188 27%	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A 40.9 3532 86.3 0 0.0 0.62 0.68 952 2036 38%	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A #N/A 106.7 1816 17.0 0 0.0 1.31 1.34 6008 6519 77%	40.9 3532 86.3 42.2 688 16.3 16.3 16.3 17.7 42.2 688 16.3 0 0.0 888 16.3 0 0.0 0.68 0.77 2844 2933 81%	81.2 11242 138.5 80.0 7820 97.8 #N/A #N/A 80.0 7820 97.8 0 0.0 1.28 1.34 3422 2493 30%	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A 76.8 1127 14.7 0 0.0 1.34 1.50 6692 6870 88%							197.9 27419 138.5 225.6 3632 16.1 #NVA 225.6 28500.3 126.3 0.0 0.0 3.12 3.61 23787 24039 87%
Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Used Treated PVIN Outlow Load Treated PVIN Outlow Conc Bypass Load Bypass Load Bypass Load Maximum Inflow Maximum Outlow Maximum Contection Load Trapped In Sediments Over all Load Reduction Load Trapped Load Reduction	emýr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb hm3/yr kg/yr % hm3/d hm3/d kg/yr % %	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A 90.6 7825 86.4 0 0.0 1.22 1.31 2869 3188 27% 4 #N/A	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 40.9 3532 86.3 0 0.0 0.68 0.0 0.68 1052 2036 36% 36%	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A 106.7 1816 17.0 0 0.0 1.31 1.34 6519 77% #N/A	40.9 3632 86.3 42.2 688 16.3 #N/A #N/A 42.2 688 16.3 0 0.0 0.68 0.77 2844 2933 81% 41%/A	81.2 11242 138.5 80.0 77820 97.8 #N/A #N/A 80.0 77820 97.8 0 0.0 1.28 1.34 3422 2493 30% #N/A	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A 76.8 1127 14.7 0 0.0 1.34 1.50 6692 6870 86% #N/A							197.9 27419 138.5 225.6 3632 16.1 #NVA #NVA 225.6 28500.3 126.3 0.0 0.0 3.12 3.61 23787 24039 87% #NVA
Cell Inflow Load Cell Inflow Conc Treated Outflow Volume Treated Outflow Usad Treated FVM Outflow Conc Upper Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass Total Outflow Volume + Bypass Total Outflow Volume + Abpass Total FVM Outflow Conc Total FVM Outflow Conc Total FVM Outflow Conc Surface Load Reduction Load Trapped in Sediments Overall Load Reduction Lower Confidence Limit Upper Confidence Limit	em/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb hm3/yr kg/yr kg/yr kg/yr kg/yr kg/yr kg/yr kg/yr kg/yr kg/yr	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A 90.6 7825 86.4 0 0.0 1.22 1.31 2869 3188 27% #N/A	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A 40.9 3532 86.3 0 0.0 0.62 0.62 0.68 1952 2036 36% #N/A	140.9 90.6 7825 86.4 106.7 1816 17.0 #NVA 106.7 1816 17.0 0 0.0 1.31 1.34 6008 6519 77% #NVA	40.9 3532 86.3 42.2 688 16.3 #N/A #N/A 42.2 688 16.3 0 0.0 0.68 0.77 2844 2933 81% #N/A	81.2 11242 138.5 80.0 7820 97.8 #NVA #NVA 80.0 7820 97.8 0 0 0.0 1.28 1.34 3422 2493 30% #NVA	80.0 7820 97.8 76.8 1127 14.7 #NVA #NVA 76.8 1127 14.7 0 0.0 1.34 1.50 6692 6870 86% #NVA							197.9 27419 138.5 225.6 3632 16.1 #NVA #NVA 225.6 28500.3 126.3 0.0 0.0 3.12 3.61 23787 24039 87% #NVA #NVA
Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Used Treated PVIN Outlow Load Treated PVIN Outlow Conc Bypass Load Bypass Load Bypass Load Maximum Inflow Maximum Outlow Maximum Contection Load Trapped In Sediments Over all Load Reduction Load Trapped Load Reduction	em/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb ppb hm3/yr kg/yr kg/yr % hm3/d hm3/d kg/yr % % % % % %	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A 90.6 7825 86.4 0 0.0 1.22 1.31 2869 3188 27% 4 #N/A	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 40.9 3532 86.3 0 0.0 0.68 0.0 0.68 1052 2036 36% 36%	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A #N/A 106.7 1816 17.0 0 0.0 1.31 1.34 6519 77% #N/A	40.9 3632 86.3 42.2 688 16.3 #N/A #N/A 42.2 688 16.3 0 0.0 0.68 0.77 2844 2933 81% 41%/A	81.2 11242 138.5 80.0 77820 97.8 #N/A #N/A 80.0 77820 97.8 0 0.0 1.28 1.34 3422 2493 30% #N/A	80.0 7820 97.8 76.8 1127 14.7 #N/A #N/A 76.8 1127 14.7 0 0.0 1.34 1.50 6692 6870 86% #N/A							197.9 27419 138.5 225.6 3632 16.1 #NVA #NVA 225.6 28500.3 126.3 0.0 0.0 3.12 3.61 23787 24039 87% #NVA
Cell Inflow Load Cell Inflow Load Treated Outlow Volume Treated Outlow Used Treated FVM Outlow Conc Upper Conflores Limit Total Outflow Volume + Bypass Total FVM Outflow Conc Bypass Load Bypass Load Maximum Outlow Maximum Outlow Surface Load Reduction Load Trapped in Sedments Overall Load Reduction Lower Confidence Limit Daily Genemitic Man Outflow Geo Mean - Composites Upper Confidence Limit	emlyr hm3yr kglyr pob hm3yr kglyr pob pob pob hm3yr kglyr % kglyr % kglyr % kglyr % kglyr % kglyr % % kglyr % % % % %	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A 90.6 7825 86.4 0 0.0 1.22 1.31 2868 3188 27% 3188 27% 74.8 76.4 #N/A	140.9 30.6 5484 138.5 86.3 #N/A 40.9 3532 86.3 #N/A 40.9 3532 86.3 0 0.0 0.62 0.68 1952 2036 30% 1952 2036 30%	140.9 90.6 7825 86.4 106.7 1816 17.0 1816 17.0 1816 17.0 0 0.0 0 1.3 1 1.34 8008 6519 77% 8509 77% 8519 77% 1.34 8008 8519 77% 713.2 714.2 715.2 717.0 710.0 717.0	40.9 3532 86.3 42.2 688 16.3 4% 42.2 688 16.3 0 0.0 88 16.3 0 0.0 88 16.3 0 0.0 88 4 16.3 0 0.0 88 4 18.3 0 1.0 88 44 2833 81% 4 2833 81% 4 2933 81% 4 2933 81% 4 2933 81% 4 2934 81% 4 2035 81% 4 2005 81% 4005 810 81% 400 810 81% 400 810 81% 400 81% 400 810 81% 400 810 81% 400 810 81% 4035 81% 400 810 81% 400 800 800 800 800 800 800 800 800 800	81.2 11242 138.5 80.0 7820 97.8 0 7820 97.8 0 0.0 0 1.28 1.34 2422 2493 30% 41VA #N/A #N/A #N/A #N/A	80.0 7820 97.9 778.8 778.8 778.8 1127 14.7 78.8 1127 14.7 0 0.0 0.134 1127 14.7 0 0.0 0.134 1.50 8870 8870 8870 8870 8870 877 10.1 7.7 10.1 1 10.4 11.0 11.0 11.0 11.0 11.0 11							197.9 27419 138.5 225.6 3632 16.1 #NVA 225.6 28500.3 126.3 0.0 0.0 3.12 3.61 23787 24039 87% #NVA #NVA 12.2 #NVA
Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Ucad Conc Upper Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass Total PMM Outflow Conc Bypass Load Bypass Load Bypass Load Bypass Load Bypass Load Bypass Load Load Trapped In Sedments Overall Load Reduction Load Trapped In Sedments Overall Load Reduction Lower Confidence Limit Upper Confidence Limit Upper Confidence Limit Dever Confidence Limit	emlyr hm3yr pob hm3yr kglyr pob pob pob pob kglyr kglyr kglyr kglyr kglyr kglyr kglyr kglyr kglyr kglyr kglyr kglyr bob pob pob pob pob	140.9 77.2 10694 138.5 86.4 #N/A 90.6 7825 86.4 90.6 7825 86.4 0.0 0.0 0.0 0.0 1.22 1.31 2869 3188 2782 3188 3188 78.4 78.4 8 4 N/A #N/A	140.9 30.6 5484 138.5 40.9 3632 86.3 #N/A #N/A 40.9 3532 86.3 0 0.0 2532 86.3 0 0.0 0.62 2036 3652 2036 3652 2036 378.4 78.4 #N/A #N/A	140.9 90.6 7825 86.4 106.7 1816 17.0 #N/A 1816 17.0 0 0.0 0.0 0.0 0.1.31 1.34 1.34 1.34 1.34 1.34 1.34 1.34	40.9 3532 86.3 42.2 688 16.3 14.4 42.2 688 16.3 14.4 42.2 688 16.3 0 0 0 0 0 0 0 0 0 0 0 0 0	81.2 11242 138.5 80.0 7820 97.8 #N/A #N/A 7820 7820 7820 7820 7820 7820 7820 7820	80.0 7820 782 78.8 76.8 1127 14.7 76.8 1127 14.7 76.8 1127 14.7 76.8 1127 14.7 0 0 0.0 1.34 1.34 1.34 1.34 1.34 1.34 1.34 1.34							197.9 27419 138.5 225.6 3632 16.1 #NVA #NVA 225.5 28500.3 128.3 0.0 0.0 3.12 23787 24039 87% #NVA #NVA #NVA #NVA
Cell Inflow Load Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Volad Treated FVM Outflow Conc Upper Confidence Umit Total Outflow Volame + Bypass Total FVM Outflow Conc Bypass Load Maximum Inflow Maximum Outflow Surface Load Reduction Load Trapped in Sedments Overall Load Reduction Lower Confidence Umit Upper Confidence Umit Upper Confidence Imit Lower Confidence Imit	emyr hm3yr pob hm3yr kgyr pob pob pob pob pob kgyr % kgyr % kgyr kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 782.5 88.4 #N/A #N/A 90.6 782.5 86.4 0 0.0 1.22 1.31 2860 3188 27% 1888 27% 1888 27% 1888 27% 1888 27% 1888 27% 1888 27%	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3	140.9 90.6 7825 88.4 106.7 1816 17.0 #N/A #N/A 1816 17.0 0.0 1.31 17.0 0.0 0.0 1.31 17.0 0.0 1.31 17.1 4 8008 6519 77% #N/A #N/A #N/A #N/A	40.9 3532 86.3 42.2 688 16.3 47.4 42.2 688 16.3 0.0 0.6 816.3 0.0 0.77 2844 16.3 0.0 0.77 2843 81% #N/A	81.2 11242 138.5 80.0 7820 97.8 80.0 7820 97.8 0.0 1.29 97.8 0.0 1.24 3492 30% #N/A #N/A #N/A #N/A #N/A #N/A	80.0 7820 97.8 76.8 1127 11.7 #N/A #N/A 76.6 1127 14.7 0 0.0 1.34 14.7 0.0 1.34 14.7 0.0 1.35 6870 86% #N/A #N/A #N/A #N/A							197.9 27419 138.5 225.6 6 3632 225.6 16.1 #N/A 2250.6 2850.6 2250.6 2250.6 2250.6 2250.6 3.0 0.0 3.128.3 0.0 0.3 3.2 23767 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 2400000000000000000000000000000
Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Volume Tayated Conflow Load Conc Tayate Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass Total FWM Outflow Conc Bypass Load Bypass Load Bypass Load Bypass Load Kasimum Inflow Surface Load Reduction Load Trapped In Sodiments Overall Load Reduction Lower Confidence Limit Upper Confidence Limit Day Geometric Mean Outflow Geo Mean - of pp Frequency Outflow Conc > 10 ppt Frequency Outflow Conc > 10 ppt	emiyr hm3yr ppb hm3yr ppb ppb ppb ppb hm3yr kgyr % kgyr % kgyr % kgyr % % % % % % % % % %	140.9 77.2 10594 138.5 7825 7825 86.4 0 0.0 0.0 1.22 1.31 2869 3188 27% #N/A #N/A #N/A 76.4 76.4 76.4 76.4 76.4 76.4 76.4 76.4	140.9 33.6 5484 138.5 40.9 3532 86.3 8532 86.3 0 3532 86.3 0 3532 86.3 0 0.0 0 86.3 0 0.0 0 0.0 2 86.3 0 1652 1652 1652 1652 78.4 #NA #NA #NA	140.9 90.6 7825 88.4 106.7 1816 17.0 180.7 1816 17.0 0 0.0 1.31 1.34 10.7 18.7 18.7 18.7 18.7 18.7 18.7 18.7 18	40.9 3532 86.3 42.2 688 16.3 #N/A #N/A 42.2 688 16.3 0 0.0 688 16.3 0 0.0 68 0.7 2844 2833 81% #N/A #N/A #N/A #N/A 9.9 #N/A 9%	81.2 11242 138.5 80.0 7820 97.8 #NNA #NNA 80.0 7820 97.8 0 0.0 0.128 134 2493 3422 2493 3422 2493 3422 2493 3422 2493 3425 88.3 #NNA #NNA #NNA #NNA #NNA #NNA #NNA #NN	80.0 7820 97.8 76.8 114.7 114.7 114.7 76.8 1127 114.7 0 0.0 0.1.34 1.50 6892 6870 88% #NA #NA #NA #NA #NA #NA #NA							197.9 27419 138.5 225.6 3632 16.1 #NVA 18NA 225.6 28500.3 28500.3 28500.3 28500.3 28500.3 28500.3 28500.3 28500.3 28500.3 200.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 23787 24039 #NVA #NVA #NVA #NVA #NVA #NVA #NVA #NVA
Cell Inflow Load Cell Inflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Volad Upper Confloence Limit Lower Outflow Youtflow Conc Upper Confloence Limit Daysas Load Maximum Inflow Maximum Outflow Maximum Outflow Maximum Outflow Overail Load Reduction Load Trapped in Sedments Overail Load Reduction Lower Confloence Limit Upper Confloence Limit Lower Confloence Limit Prequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb	emyr hm3yr pob hm3yr kgyr pob pob pob pob pob kgyr % kgyr % kgyr kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 782.5 88.4 #N/A 90.6 782.5 86.4 0 0.0 1.22 1.31 2869 3188 27% 1888 27% 1888 27% 1888 27% 1888 27% 1888 27% 1888 27%	140.9 39.6 5484 138.5 40.9 3532 86.3 #N/A #N/A 86.3 86.3 86.3 86.3 86.3 86.3 86.3 86.3	140.9 90.6 7825 88.4 106.7 1816 17.0 #N/A #N/A 1816 17.0 0.0 1.31 17.0 0.0 0.0 1.31 17.0 0.0 1.31 17.1 4 8008 6519 77% #N/A #N/A #N/A #N/A	40.9 3532 86.3 42.2 688 16.3 47.4 42.2 688 16.3 0.0 0.6 816.3 0.0 0.77 2844 16.3 0.0 0.77 2843 81% #N/A	81.2 11242 138.5 80.0 7820 97.8 80.0 7820 97.8 0.0 1.29 97.8 0.0 1.24 3492 30% #N/A #N/A #N/A #N/A #N/A #N/A	80.0 7820 97.8 76.8 1127 11.7 #N/A #N/A 76.6 1127 14.7 0 0.0 1.34 14.7 0.0 1.34 14.7 0.0 1.35 6870 86% #N/A #N/A #N/A #N/A							197.9 27419 138.5 225.6 6 3632 225.6 16.1 #N/A 2250.6 2850.6 2250.6 2250.6 2250.6 2250.6 3.0 0.0 3.128.3 0.0 0.3 3.2 23767 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 87% 24039 2400000000000000000000000000000
Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Volume Tayated Conflow Load Conc Tayate Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass Total FWM Outflow Conc Bypass Load Bypass Load Bypass Load Bypass Load Kasimum Inflow Surface Load Reduction Load Trapped In Sodiments Overall Load Reduction Lower Confidence Limit Upper Confidence Limit Day Geometric Mean Outflow Geo Mean - of pp Frequency Outflow Conc > 10 ppt Frequency Outflow Conc > 10 ppt	emiyr hm3yr ppb hm3yr ppb ppb ppb ppb hm3yr kgyr % kgyr % kgyr % kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A 90.0 9.0 9.0 1.22 1.31 26669 3188 27% #N/A #N/A #N/A #N/A #N/A #N/A #N/A #N/A	140.9 30.6 5484 138.5 40.9 3532 86.3 86.3 0 0.0 0.62 2036 3532 2036 3532 2036 3532 2036 3532 2036 3532 2036 3532 2036 1952 2036 363 2036 1952 2036 2036 2036 2036 2036 2036 2036 203	140.9 90.6 7825 86.4 106.7 1816 17.0 80.6 1816 1916 1916 1916 1916 1916 1916 191	40.9 3532 86.3 42.2 688 16.3 #N/A 42.2 688 16.3 0 0.0 0.6 87 2834 815,3 0 0.0 0.0 68 0.0 0.0 68 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	81.2 11242 138.5 80.0 7820 97.8 #NVA 80.0 77820 97.8 0 0 0.0 0 1.28 1422 2463 2463 2463 2463 2463 2463 2464 2463 2463	80.0 7820 97.8 76.8 1127 1147 1127 1147 16.8 1127 14.7 0 0 1.34 14.7 0 1.30 1.30 1.30 1.30 1.50 1.30 8570 8692 6892 6892 6892 6877 10.1 140/4 14							197.9 27419 138.5 225.6 3632 182.1 #NNA 225.6 255.6 24503 128.3 0.0 0.0 0.0 0.0 0.0 12 24500 246300 246300 2463000 246300 246300 246300 2463000 2463000 2463000000000000000000000000000000000000
Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Used Treated PVIN Quiflow Ind Cell Inflow Conc Expression Total Total Outflow Volume + Pypass Total PVIN Quiflow Conc Bypass Load Maximum Inflow Maximum Inflow Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped Inflow Daily Geometric Mean Outflow Geo Mean - Composites Upper Confidence Limit Frequency Outflow Conc > 10 ppb Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 50 ppb Freq Outflow Volume > 10 ppb	emiyr hm3yr ppb hm3yr ppb ppb ppb ppb hm3yr kgyr % kgyr % kgyr % kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A 0 0 7825 86.4 0 0 0 1.22 1.31 1.31 2860 0 0 0 1.23 1.33 3188 27% 76.4 #N/A #N/A #N/A *N/A *N/A *N/A *N/A *N/A *N/A *N/A *	140.9 39.6 5484 40.9 252 86.3 86.3 86.3 0 0.0 252 86.3 0 0.0 252 86.3 0 0.0 2036 2036 2036 2036 2036 2036 2036 203	140.9 90.6 7825 88.4 106.7 1816 17.0 1816 17.0 0 0 1.0 1.1 1816 17.0 0 0 0 0 1.3 1 1.0 1 8 0 0 0 0 0 0 1.3 1 1.0 1 8 0 0 0 1.3 1 1.0 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40.9 3532 86.3 42.2 688 16.3 mN/A 42.2 688 16.3 mN/A 42.2 688 16.3 18.4 8 16.3 18.4 18.4 18.3 18.4 18.4 18.4 18.4 18.4 19.4 19.4 19.4 19.4 19.4 19.4 19.4 19	81.2 11242 138.5 80.0 7820 97.8 #NVA 80.0 77820 97.8 0 0 0.0 0 1.28 1422 2463 2464 2463 2464 2463 2464 2464 2	80.0 7820 97.8 76.8 1127 1147 1127 1147 16.8 1127 14.7 0 0 1.34 14.7 0 1.30 1.30 1.30 1.30 1.50 1.30 8570 8692 6892 6892 6892 6877 10.1 140/4 14							197.9 27419 138.5 225.6 3632 182.1 #NNA 225.6 255.6 24503 128.3 0.0 0.0 0.0 0.0 0.0 12 24500 246300 246300 2463000 246300 246300 246300 2463000 2463000 2463000000000000000000000000000000000000
Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Used Treated PVIN Quiflow Ind Cell Inflow Conc Expression Total Total Outflow Volume + Pypass Total PVIN Quiflow Conc Bypass Load Maximum Inflow Maximum Inflow Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped Inflow Daily Geometric Mean Outflow Geo Mean - Composites Upper Confidence Limit Frequency Outflow Conc > 10 ppb Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 50 ppb Freq Outflow Volume > 10 ppb	emiyr hm3yr ppb hm3yr ppb ppb ppb ppb hm3yr kgyr % kgyr % kgyr % kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 7825 86.4 #N/A #N/A 90.6 7825 864 90.6 7825 864 90.6 7825 864 1.2 2 1.3 188 2782 3188 3188 3188 76.4 #N/A #N/A #N/A 74.8 76.4 1.2 2609 3188 276,4 76,4 1.2 2609 3188 276,4 76,4 1.2 2609 3188 276,4 76,4 1.2 2609 3188 276,4 76,4 1.2 2609 3188 276,4 76,4 1.2 2609 3188 276,4 76,4 1.2 2609 3188 276,4 76,4 1.2 2609 3188 276,4 1.2 2609 3188 276,4 1.2 2609 3188 276,4 1.2 2609 3188 276,4 1.2 2609 3188 276,4 1.2 2609 3188 276,4 1.2 2609 3188 276,4 1.2 2609 3188 276,4 1.2 2609 3188 276,4 276,4 2609 3188 276,4 276,4 1.2 2609 3188 276,4 2	140.9 38.6 5484.5 138.5 46332 86.3 80.3 80.3 80.3 80.3 80.3 80.3 80.3 80	140.9 90.6 7825 86.4 106.7 1816 17.0 106.7 1816 17.0 106.7 106.7 106.7 106.7 106.7 106.7 107.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	40.9 3532 86.3 42.2 688 16.3 42.4 688 16.3 47.4 42.2 688 16.3 47.4 42.2 688 16.3 0 0 0 0 0 0 0 0 0 0 0 0 0	81.2 11242 138.5 80.0 782.0 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	80.0 7820 97.8 76.8 1127 1147 1127 1147 16.8 1127 14.7 0 0 1.34 14.7 0 1.30 1.30 1.30 1.30 1.50 1.30 8570 8692 6892 6892 6892 6877 10.1 140/4 14							197.9 27419 138.5 225.6 3632 225.6 16.1 #NVA 225.6 16.1 #NVA 225.6 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 25%
Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Used Treated PVIN Quiflow Ind Cell Inflow Conc Expression Total Total Outflow Volume + Pypass Total PVIN Quiflow Conc Bypass Load Maximum Inflow Maximum Inflow Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped Inflow Daily Geometric Mean Outflow Geo Mean - Composites Upper Confidence Limit Frequency Outflow Conc > 10 ppb Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 50 ppb Freq Outflow Volume > 10 ppb	emiyr hm3yr ppb hm3yr ppb ppb ppb ppb hm3yr kgyr % kgyr % kgyr % kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 7263 86.4 90.6 72625 86.4 0 0.0 0.0 0.0 0.0 0.0 1.31 26609 3188 27% mN/A mN/A 74.8 74.8 74.8 74.8 74.8 74.8 74.8 74.8	140.9 39.6 5484 138.5 4037 4037 86.3 86.3 86.3 87.4 40.9 3532 86.3 8532 86.3 8532 86.3 8532 86.3 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	140.9 90.6 7825 86.4 7 100.7 8745 86.4 1 100.7 80.6 80.4 100.6 7 80.0 80.0 80.0 80.0 80.0 80.0 80.0 80	40.9 3532 86.3 42.2 688 16.3 47.2 42.8 688 16.3 47.4 42.2 42.4 42.2 42.2 42.2 42.4 42.2 42.4 42.2 42.4 42	81.2 11242 138.5 80.0 782.0 97.8 #NA #NA 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	80.0 7820 97.8 76.8 1127 1147 1127 1147 16.8 1127 14.7 0 0 1.34 14.7 0 1.30 1.30 1.30 1.30 1.50 1.30 8570 8692 6892 6892 6892 6877 10.1 140/4 14							197.9 27419 138.5 225.6 3632 225.6 16.1 #NVA 225.6 16.1 #NVA 225.6 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 25%
Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Used Treated PVIN Quiflow Ind Cell Inflow Conc Expression Total Total Outflow Volume + Pypass Total PVIN Quiflow Conc Bypass Load Maximum Inflow Maximum Inflow Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped Inflow Daily Geometric Mean Outflow Geo Mean - Composites Upper Confidence Limit Frequency Outflow Conc > 10 ppb Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 50 ppb Freq Outflow Volume > 10 ppb	emiyr hm3yr ppb hm3yr ppb ppb ppb ppb hm3yr kgyr % kgyr % kgyr % kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 7825 86.4 90.6 90.6 90.6 90.6 90.6 90.6 90.6 90.6	140.9 33.6 5484 33.6 5484 138.5 40.9 3532 8532 86.3 0 0.0 0.62 206 552 206 52 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 5 20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	140.9 90.6 7825 86.4 106.7 1816 170 170 170 170 170 170 170 170 0 0 0 0	40.9 45.2	81.2 11242 138.5 80.0 782.0 97.8 #NA #NA 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	80.0 7820 97.8 76.8 1127 1147 1127 1147 16.8 1127 14.7 0 0 1.34 14.7 0 1.30 1.30 1.30 1.30 1.50 1.30 8570 8692 6892 6892 6892 6877 10.1 140/4 14							197.9 27419 138.5 225.6 3632 225.6 16.1 #NVA 225.6 16.1 #NVA 225.6 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 25%
Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outlow Volume Treated Outlow Used Treated PVIN Quiflow Ind Cell Inflow Conc Expression Total Total Outflow Volume + Pypass Total PVIN Quiflow Conc Bypass Load Maximum Inflow Maximum Inflow Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped In Sedments Overall Load Reduction Load Traped Inflow Daily Geometric Mean Outflow Geo Mean - Composites Upper Confidence Limit Frequency Outflow Conc > 10 ppb Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 50 ppb Freq Outflow Volume > 10 ppb	emiyr hm3yr ppb hm3yr ppb ppb ppb ppb hm3yr kgyr % kgyr % kgyr % kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 7825 86.4 90.6 90.6 90.6 90.6 90.6 90.6 90.6 90.6	140.9 39.6 5484 138.5 4037 4037 86.3 86.3 86.3 87.4 40.9 3532 86.3 8532 86.3 8532 86.3 8532 86.3 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	140.9 90.6 7825 86.4 106.7 1816 170 170 170 170 170 170 170 170 0 0 0 0	40.9 45.2	81.2 11242 138.5 80.0 782.0 97.8 #NA #NA 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	80.0 7820 97.8 76.8 1127 1147 1127 1147 1127 1147 16.8 1127 1147 0 0 1.34 147 0 0 1.34 1.50 1.36 870 88% 88% 88% 88% 88% 88% 88% 88% 88% 88							197.9 27419 138.5 225.6 3632 225.6 16.1 #NVA 225.6 16.1 #NVA 225.6 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 25%
Cell Inflow Load Cell Inflow Load Treated Outlow Volume Treated Outlow Used Treated Outlow Used Treated PVIN Quiflow And Lower Conflemces Limit Total Quiflow Load + Bypass Total PVIN Quiflow Conc Bypass Load Bypass Load Maximum Informe Load Trapped In Sedments Overall Load Reduction Load Trapped In Sedments Overall Load Reduction Load Trapped In Sedments Overall Load Reduction Load Trapped In Sedments Overall Load Reduction Daily Geometric Mean Quiflow Geo Mean - Composites Upper Confidence Limit Dipper Confidence Limit Prequency Outflow Conc > 10 ppb Frequency Outflow Conc > 20 ppb	emiyr hm3yr ppb hm3yr ppb ppb ppb ppb hm3yr kgyr % kgyr % kgyr % kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 7825 86.4 90.6 90.6 90.6 90.6 90.6 90.6 90.6 90.6	140.9 33.6 5484 33.6 5484 138.5 40.9 3532 8532 86.3 0 0.0 0.62 206 552 206 52 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 5 20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	140.9 90.6 7825 86.4 106.7 1816 170 170 170 170 170 170 170 170 0 0 0 0	40.9 45.2	81.2 11242 138.5 80.0 782.0 97.8 #NA #NA 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	80.0 7820 97.8 76.8 1127 1147 1127 1147 1127 1147 16.8 1127 1147 0 0 1.34 147 0 0 1.34 1.50 1.36 870 88% 88% 88% 88% 88% 88% 88% 88% 88% 88							197.9 27419 138.5 225.6 3632 225.6 16.1 #NVA 225.6 16.1 #NVA 225.6 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 25%
Cell Inflow Load Cell Inflow Load Treated Outlow Volume Treated Outlow Used Treated Outlow Used Treated PVIN Quiflow And Lower Conflemces Limit Total Quiflow Load + Bypass Total PVIN Quiflow Conc Bypass Load Bypass Load Maximum Informe Load Trapped In Sedments Overall Load Reduction Load Trapped In Sedments Overall Load Reduction Load Trapped In Sedments Overall Load Reduction Load Trapped In Sedments Overall Load Reduction Daily Geometric Mean Quiflow Geo Mean - Composites Upper Confidence Limit Dipper Confidence Limit Prequency Outflow Conc > 10 ppb Frequency Outflow Conc > 20 ppb	emiyr hm3yr ppb hm3yr ppb ppb ppb ppb hm3yr kgyr % kgyr % kgyr % kgyr % % % % % % % % % %	140.9 77.2 10694 138.5 90.6 7825 86.4 90.6 90.6 90.6 90.6 90.6 90.6 90.6 90.6	140.9 33.6 5484 33.6 5484 138.5 40.9 3532 8532 86.3 0 0.0 0.62 206 552 206 52 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 206 5 5 20 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	140.9 90.6 7825 86.4 106.7 1816 170 170 170 170 170 170 170 170 0 0 0 0	40.9 45.2	81.2 11242 138.5 80.0 782.0 97.8 #NA #NA 97.8 97.8 97.8 97.8 97.8 97.8 97.8 97.8	80.0 7820 97.8 76.8 1127 1147 1127 1147 1127 1147 16.8 1127 1147 0 0 1.34 147 0 0 1.34 1.50 1.36 870 88% 88% 88% 88% 88% 88% 88% 88% 88% 88							197.9 27419 138.5 225.6 3632 225.6 16.1 #NVA 225.6 16.1 #NVA 225.6 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 24030 25%



C-3



# Table C.4 Results of DMSTA2 Analysis, STA-1W Existing Design (Baseline 2007-2056) – with 31-yr Monthly Average TP Concentrations

Input Variable	Units	Value	Case Descript	ion:										-
Design Case Name	-	Baseline	Existing, Cell	s 1-3 & 5AEme	ergent & Cell4 &	5BSAV_3								
Input Series Name Starting Date for Simulation		TS_STA_Mod 01/01/65	Monthly Inflow	v Data										
Ending Date for Simulation		12/31/95												
Starting Date for Output	-	01/01/65												
Integration Steps Per Day	-	3	Simulation Typ	Ð:	Base									-
Number of Iterations	-	3	Output Variabl		Mean	Lower CL #N/A	Upper CL #N/A		Diagnostics			0.007	0.007	
Output Averaging Interval Inflow Conc Scale Factor	days	7	FWM Outflow GM Outflow C	C (ppb)	26.9 24.5	#N/A #N/A	#N/A #N/A		H20 Balance E Mass Balance E	rror Mean & Ma Error Mean & Ma	IX 2Y	0.0%	0.0%	
Rainfall P Conc	ppb	10	Load Reductio	(ppb) n %	24.5	#N/A	#N/A #N/A		Iterations & Co		ах	3	0.0%	
Atmospheric P Load (Dry)	mg/m2-yr	20	Bypass Load (		0.0%				Warning/Error	Messages		4		
Cell Number>		1	2	3	4	5	6	7	8	<b>9</b>	10	11	12	_
Cell Label	-	1	2	3	4	5A	5B							
Vegetation Type Inflow Eraction	->	EMG_3 0.25	EMG_3 0.25	EMG_3	SAV_3	EMG_3 0.5	SAV_3							
Downstream Cell Number	-	0.25	0.25			0.5								
Surface Area	km2	6.03	3.81	2.83	1.01	2.27	9.28							
Mean Width of Flow Path	km	1.10	1.74	2.48	1.83	1.78	2.34							
Number of Tanks in Series	-	2.0	2.0	2.0	2.0	2.0	3.0							
Minimum Depth for Releases	cm													
Release 1 Series Name Release 2 Series Name														
Outflow Series Name														
Depth Series Name														
Outflow Control Depth	cm	55	67	46	60	60	60							
Outflow Weir Depth	cm													
Outflow Coefficient - Exponent	-	2.35	2.51	2.5	2.5	2.49	2.25							
Outflow Coefficient - Intercept Bypass Depth	- cm	1.24	1.38	1.03	1.28	2.75	3.78							
Maximum Inflow	hm3/dav													
Maximum Outflow	hm3/day													
Inflow Seepage Rate	(cm/d) / cm	0.01038	0.00547	0.00676	0.00485									1
Inflow Seepage Control Elev	cm	183	101	163	82				1		1			
Inflow Seepage Conc Outflow Seepage Rate	ppb (cm/d) / cm	20 0.00346	20	20 0.00173	20	20 0.01577	20 0.00496		1		1			
Outflow Seepage Rate Outflow Seepage Control Elev	(cm/d) / cm cm	0.00346 43	1	0.00173 40	1	0.01577 -46	-46		1		1			
Max Outflow Seepage Conc	ppb	43	20	20	20	20	20		1		1			
Seepage Recycle to Cell Number	-								1		1			
Seepage Recycle Fraction	-	1	1		1	0.91	0.8		1		1			
Seepage Discharge Fraction		30				30	30							
Initial Water Column Conc Initial P Storage Per Unit Area	ppb mg/m2	30 500	30 500	30 500	30 500	30 500	30 500							
Initial Water Column Depth	cm	50	50	50	50	50	50							
C0 = Conc at 0 g/m2 P Storage	ppb	3	3	3	3	3	3							
C1 = Conc at 1 g/m2 P storage	ppb	22	22	22	22	22	22							
C2 = Conc at Half-Max Uptake	ppb	300	300	300	300	300	300							
K = Net Settling Rate at Steady State Z1 = Saturated Uptake Depth	m/yr	16.8 40	16.8 40	16.8 40	52.5	16.8 40	52.5 40							
Z2 = Lower Penalty Depth	cm cm	40	40	40	40 100	100	40							
Z3 = Upper Penalty Depth	cm	200	200	200	200	200	200							
														-
Output Variables	Units	1	2	3	4	5	6		8		10	11	12	
								7	- °	9	10			Overall
Execution Time Run Date	sec/yr	15.13	16.32	17.55	18.74	19.58	20.49	/		3	10			20.49
Run Date		15.13 06/13/05	16.32 06/13/05	17.55 06/13/05	18.74 06/13/05	19.58 06/13/05	20.49 06/13/05			3	10			20.49 06/13/05
Run Date Starting Date for Simulation		15.13	16.32	17.55	18.74	19.58	20.49			3				20.49
Run Date Starting Date for Simulation Starting Date for Output Ending Date	sec/yr - - -	15.13 06/13/05 01/01/65 01/01/65 12/31/95	16.32 06/13/05 01/01/65 01/01/65 12/31/95	17.55 06/13/05 01/01/65 01/01/65 12/31/95	18.74 06/13/05 01/01/65 01/01/65 12/31/95	19.58 06/13/05 01/01/65 01/01/65 12/31/95	20.49 06/13/05 01/01/65 01/01/65 12/31/95			3				20.49 06/13/05 01/01/65 01/01/65 12/31/95
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration		15.13 06/13/05 01/01/65 01/01/65	16.32 06/13/05 01/01/65 01/01/65 12/31/95 11322	17.55 06/13/05 01/01/65 01/01/65 12/31/95 11322	18.74 06/13/05 01/01/65 01/01/65	19.58 06/13/05 01/01/65 01/01/65 12/31/95 11/322	20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322			3				20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label	sec/yr - - -	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1	16.32 06/13/05 01/01/65 01/01/65 12/31/95 11322 2	17.55 06/13/05 01/01/65 01/01/65 12/31/95 11322 3	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 4	19.58 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A	20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B	/	•	3				20.49 06/13/05 01/01/65 01/01/65 12/31/95
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label	sec/yr - - -	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3	16.32 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4	17.55 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow	19.58 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B	20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow	/	•	3				20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total
Run Date Starting Date for Simulation Starting Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type	sec/yr - - days -	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base	16.32 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base	17.55 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base	19.58 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base	20.49 06/13/05 01/01/65 12/31/95 11322 5B Outflow none Base		•	3				20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area	sec/yr - - days - - km2	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03	16.32 06/13/05 01/01/65 12/31/95 11322 2 4 none Base 3.81	17.55 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01	19.58 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27	20.49 06/13/05 01/01/65 12/31/95 11322 5B Outflow none Base 9.28		•	3				20.49 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Sturface Area Mean Rainfall	sec/yr - - days - - km2 cm/yr	15.13 06/13/05 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9	16.32 06/13/05 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9	17.55 06/13/05 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9	18.74 06/13/05 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9	19.58 06/13/05 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9	20.49 06/13/05 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9		•	3				20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area	sec/yr - - days - km2 cm/yr cm/yr	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03	16.32 06/13/05 01/01/65 12/31/95 11322 2 4 none Base 3.81	17.55 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01	19.58 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27	20.49 06/13/05 01/01/65 12/31/95 11322 5B Outflow none Base 9.28		•	3				20.49 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Syntace Area Mean R anirtal Mean ET Cell Inflow Volume Cell Inflow Load	sec/yr - - days - - km2 cm/yr	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855	16.32 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 12/31/95 12/31/95 2 4 none Base 3.81 142.9 140.9 49.5 6855	17.55 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3409	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3528	19.58 06/13/05 01/01/65 01/01/65 12/31/95 11/322 5A 5B none Base 2.27 142.9 140.9 99.0 13710	20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 10060		•	3				20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstream Cell Label Simulation Type Simulation Type Simulation Type Cell Inflow Volume Cell Inflow Volume Cell Inflow Conc	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr kg/yr	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5	16.32 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5	17.55 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3409 44.3	18.74 06/13/05 01/01/65 12/31/95 11/322 4 Outflow none Base 1.01 142.9 140.9 52.2 3528 67.6	19.58 06/13/05 01/01/65 12/31/95 11/322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5	20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 10060 102.9		•	3				20.49 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Syndrac Area Mean R anirtal Mean R anirtal Cell Inflow Volume Cell Inflow Load Cell Inflow Coad Cell Inflow Coad	sec/yr - - - - - - - - - - - - - - - - - - -	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5	16.32 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 140.9 5 6855 138.5 52.2	17:55 06/13/05 01/01/65 01/01/65 12/31/95 111322 3 Outflow none Base 2.83 142.9 140.9 77.0 3409 44.3 85.0	18.74 06/13/05 01/01/65 01/01/65 12/31/95 111322 4 Outflow none Base 1.01 142.9 140.9 52.2 3528 67.6 52.6	19.58 06/(13/05 01/(01/65 01/(01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 142.9 142.9 13710 138.5 97.8	20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 97.8 10060 102.9 94.6			3				20.49 06/13/05 01/01/65 01/01/65 12/31/95 11/322 Total - - - - - - - - - - - - - - - - - - -
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cult Label Downstream Cell Label Network: Simulation Name Simulation Type Surface Area Mean Rainfail Gell Inflow Load Cell Inflow Conc Treastd Outflow Load	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11/322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3409	16.32 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 5.2 3528	17.55 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3409 44.3 85.0 2523	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11/322 4 Outflow none Base 1.01 142.9 140.9 52.2 3528 67.6 52.6 52.6	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8 10060	20.49 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 5B Outflow none Base 9.28 140.9 97.8 10060 102.9 94.6 1665			9				20.49 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5 232.1 6255
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Output Duration Duration Duration Duration Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Volume Treasted Outflow Load Treasted Outflow Load	sec/yr - - - - - - - - - - - - - - - - - - -	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3409 44.3	16.32 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 40.5 6855 138.5 52.2 3528 67.6	17:55 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 2.83 142.9 140.9 77.0 3409 44.3 85.0 2523 29.7	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 1.01 142.9 140.9 52.2 3528 67.6 52.6 2068 39.3	19.58 06/13/05 01/01/65 01/01/65 12/31/95 111322 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8 10060 102.9	20.49 06/13/05 01/01/65 01/01/65 12/31/95 11/32/ 5B Outflow none Base 9.28 142.9 140.9 97.8 10060 102.9 94.6 1665 17.6			9				20.49 06/13/05 01/01/65 01/01/65 12/31/95 11/322 Total - - none Base 25.24 142.9 142.9 142.9 197.9 27419 138.5 232.1 6255 26.9
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Date Call Label Network Simulation Name Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean ET Call Inflow Volume Call Inflow Volume Treased Outflow Load Treased Outflow Load Treased Outflow Load Confidence Limit Lower Confidence Limit	sec/yr - - - - - - - - - - - - - - - - - - -	15.13 06/13/05 01/01/65 01/01/65 12/31/95 11322 1 132 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3409 44.3 #N/A	16.32 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 3.81 142.9 140.9 49.5 6855 138.5 52.2 3528 67.6 #NVA	17.55 06/13/05 01/01/65 01/01/65 12/31/95 11/32/ 3 Outflow none Base 2.83 142.9 140.9 77.0 3409 44.3 85.0 2523 29.7 #N/A	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11/322 1322 1322 0utflow none Base 1.01 142.9 140.9 52.2 3528 67.6 52.6 2068 39.3 #N/A	19:58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 13/21 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8 10060 102.9 #N/A	20.49 06/13/05 01/01/65 01/01/65 12/31/95 11/322 5B Outflow none Base 9.28 142.9 140.9 140.9 97.8 10060 102.9 94.6 1665 17.6 #NVA			9				20.49 06/13/05 01/01/65 01/01/65 112/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5 232.1 6255 26.9 #N/A
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cult Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Raintial Mean Er Cell Inflow Load Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Treasted Outflow Volume Treasted Outflow Load Treasted FVWN Outflow Conc Upper Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypass	sec/yr - - - - - - - - - - - - - - - - - - -	15.13 06/13/05 01/01/65 12/31/95 11322 1 3 none Base 6.03 142.9 140.9 49.5 6855 138.5 77.0 3409 44.3 5 77.0 3409 44.3 77.0	16.32 06/13/05 01/01/65 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 2 2 2 4 8.5 5 52.2 352.8 67.6 #NVA #NVA 52.2	17.55 06/13/05 01/01/65 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 30 0000 88 88 142.9 140.9 77.0 3409 44.3 85.0 252.3 #NVA #NVA 85.0	18.74 06/13/05 01/01/05 01/01/05 12/31/95 12/312	19.58 06/13/05 01/01/05 01/01/05 12/31/95 11/32/ 5A 5B none Base 2.27 142.9 140.9 99.0 13710 138.5 97.8 10060 102.9 #N/A #N/A 97.8	20.49 06/13/05 01/01/65 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 88- 97.8 10/06 102.9 97.8 100/60 102.9 94.6 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17			9				20.49 06/13/05 01/01/65 01/01/65 11/21/185 11/21/195 11/32/9 17/01 8 8 8 8 25.24 142.9 140.9 197.9 27419 138.5 28.24 142.9 140.9 197.9 27419 138.5 26.5 26.9 #N/A #N/A #N/A 232.1
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstream Starting Date Starting Sunface Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Cell Inflow Volume Cell Inflow Volume Treated Outflow Volume Treated Outflow Volume Treated PVMN Coulflow and Treated PVMN Coulflow and Treated Outflow Volume Total Outflow Volume + Bypass Total Outflow Volume 4 + Bypass	sec/yr - - - - - - - - - - - - - - - - - - -	15.13 06/13/05 01/01/85 01/01/85 01/01/85 11/322 1 3 none Base 6.03 142.9 140.9 49.5 8855 138.5 77.0 3409 44.3 #N/A 77.0 3409	16.32 06/13/05 07/07/65 07/07/65 17/31/65 11/322 2 4 none Basse 3.81 142.9 140.9 49.5 5.855 5.2.2 3528 67.6 #N/A 5.2.2 3528	17.5.6 06(13)05 01(01)65 01(01)65 11(32)2 3 0utflow none Base 2.83 0utflow none Base 2.83 142.9 140.9 77.0 34009 44.3 2523 29.7 #N/A 85.0 2523	18.74 06/13/05 07/01/65 07/01/65 11/32/2 4 0.04ffow none Base 1.01 142.9 140.9 52.2 3528 67.6 52.6 2068 30.3 #N/A 52.6 2068	10.5.8 06/13/05 07/01/85 07/01/85 17/31/95 11/32/2 5A 5B none Base 2.27 14/2.9 14/0.9 99.0 137/10 138.5 97.8 10060 102.9 #W/A 97.8	20.49 06/13/05 01/01/85 11/231/85 11/231/95 58 Outflow none Base 9.28 142.9 140.9 9.46 17.6 17.6 17.6 17.6 17.6							20.49 06/13/05 01/01/65 12/31/95 11/322 Total 13/22 10/22 10/22 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 13/7.9 27/419 2
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Ratintal Mean Heat Cell Inflow Lead Cell Inflow Conc Upper Confidence Limit Lower Confidence Limit Lower Confidence Limit Total Outflow Conc Total Civil Swass Total Outflow Conc Total Civil Swass Total Outflow Conc Total FWIM Outflow Conc Total FWIM Outflow Conc Total Outflow Volume + Bypass Total Total Outflow Volume A Bypass Total Outflow Volume A Bypass Total Outflow Conc	sec/yr - - - - - - - - - - - - - - - - - - -	15.13 06(13)05 01/01/65 01/01/65 11/23(1)65	16.32 06/13/05 01/01/65 01/01/65 01/01/65 11/32/185 11/322 2 4 none Base 3.81 142.9 140.9 49.5 58.5 55.2 52.2 67.6 52.2 3528 67.6 52.2 3528 67.6 52.2 3528 67.6 52.2 3528 67.6 52.2 3528 67.6 52.2 3528 67.6 52.2 3528 67.6 52.2 3528 67.6 52.2 3528 67.6 52.2 3528 67.6 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.2 3528 52.5 52.5 52.2 3528 52.5 57.5	17,55 06(13)05 0101165 0101165 1101165 1101165 11321195 11322 3 0utflow none Base 2,83 142,9 140,9 77,0 340 9 77,0 344,3 85,0 85,0 85,0 85,0 85,0 85,0 85,0 85,0	18.74 06/13/05 07/01/85 07/01/85 11/322 4 0utflow none Base 1.01 142.9 140.9 52.6 52.6 52.6 52.6 52.6 52.6 52.6 52.6	10.5.8 06/13/05 07/01/65 07/01/65 17/01/65 11/02/05 5A 5B none Base 2.27 142.9 140.9 9.0 13710 13710 13710 13710 13710 13710 10050 102.9 77.8 10060	20.49 06/13/05 01/01/65 01/01/65 10/01/65 11/231/95 11/231/95 11/22 58 Outflow none Base 9.28 142.9 140.9 97.8 10/060 10/065 17.6 1665 17.6 1665 17.6							20.49 06/13/05 01/01/65 01/01/65 01/01/65 11/32/95 12/32/95 12/32/
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstream Call Label Network Simulation Name Network Simulation Name Network Simulation Name Surface Areape Surface Areape Call Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Treated Outflow Volume Treated Outflow Volume Treated Outflow Used Treated PVM Outflow Conc Lower Confidence Limit Lower Confidence Li	sec/yr - - - - - - - - - - - - - - - - - - -	15,13 06/13/05 01/01/65 01/01/65 01/01/65 11/01/65 11/231/95 11/231/95 11/22 1 1 3 none Base 6.03 142.9 140.9 48.5 68.5 138.5 77.0 3409 44.3 77.0 3409 44.3 0	16.32 06/13/05 01/01/85 01/01/85 11/01/85 11/32 2 2 4 4 7 7 8 8 8 9 8 8 8 5 3.81 142.9 3.81 142.9 3.81 142.9 3.81 142.9 49.5 6855 52.2 3528 67.6 6 0	17.56 06/13/05 01/01/85 01/01/85 01/01/85 11/01/85 11/01/85 11/01/85 11/01/85 11/02 3 0 01/01/06 11/02 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18,74 06/13/05 01/01/65 01/01/65 01/01/65 11/01/65 11/01/65 11/02/2 4 0 01/01/65 11/02/2 4 0 0 0 0 0 0 0 0 0 0 0 0 0	10.5.8 06/13/05 06/13/05 01/01/65 01/01/65 01/01/65 11/02/05 54 58 11/02/2 5A 58 0060 12/01/05 14/0.9 99.0 137/10 137/10 137.10 137.10 137.10 137.10 102.9 #NA #NA #NA	20.49 06/13/05 01/01/85 01/01/85 01/01/85 11/01/85 11/02/85 88 0utilow none 8ase 9.28 9.28 142.9 140.9 9.7.8 140.9 9.7.8 140.9 9.46 1665 17.6 0							20.49 20.49 06/13/05 11/01/65 11/01/65 11/02/65 11/02/65 11/02/65 11/02/65 12/01/95 1/
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstream Call Label Network Simulation Name Simulation Type Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Usume Treated Outflow Load Treated Simulation Label Lower Confidence Limit Maximum Inflow	sec/r - - - - - - - - - - - - - - - - - - -	15,13 06/13/05 01/01/65 01/01/65 01/01/65 11/231/05 11/231/05 11/22 1 3 none Base 6.03 142.9 140.9 44.5 6855 138.5 77.0 3400 44.3 0 0.0 0.0 77	16.32 06/13/05 01/01/85 10/01/85 12/01/85 11/01/85 12/01/85 11/01/85 12/01/85 12/01/85 13/05 14/0.9	17.56 06/13/05 01/01/85 01/01/85 01/01/85 11/02 11/01/85 11/02 11/05 11/01/85 11/02 11/05 11/02 11/02 11/05 11/02 11/02 11/05 11/02 11/05 11/02 11/05 11/02 11/05 11/05 11/02 11/05 11/05 11/05 11/02 11/05 11/05 11/02 11/05	18,74 06/13/05 11/01/65 11/01/65 11/01/65 11/01/65 11/01/65 11/02/65 4 4 0utifow none 8ase 1.01 142.9 142.9 142.9 52.6 2068 33.5 0 0.0 0.89	10.5.8 06/13/05 01/01/65 01/01/65 01/01/65 11/231/95 11/22 5A 98 12/31/95 11/322 5A 98 99.0 13/2100 13/2100 13/2100 100 100 100 100 100 100 100 100 100	20.49 06/13/05 01/01/85 10/101/85 12/01/85 12/01/85 11/32/2 88 0utllow none 89.28 9.28 9.28 9.28 9.28 9.28 9.28 9.2							20.49 20.49 06/13/05 11/01/65 11/02/65 11
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Date shows and the	sec/r - - - - - - - - - - - - -	15.13 06/13/05 01/01/65 01/01/65 12/01/05 12/05 12/05	16.32 06/13/05 01/01/85 01/01/85 12/31/85 11/32/31/85 11/32/31/85 11/32/31/85 11/32/3 4 8 8 8 8 8 8 8 8 5 5 2 2 3 5 28 8 6 7.6 8 #WA 5 5 2 2 3 5 28 6 7.6 8 #WA 5 5 2 2 3 5 28 6 7.6 0 0 0 0 0 8 8 8 8 8 8 8 8 8 8 8 8 8 8	17.56 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11322 11322 8 0/07 11322 1132 11322 11322 11322 11322 11322 11322 11322 11322 11322 11322 11322 1132 11322 1132 11322 1132 11322 1132 1132 1132 1132 11322 1132 11322 1132	18,74 06/13/05 01/01/05 01/01/05 12/05 12/05	19.58 06/13/05 01/01/65 01/01/65 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 12/21/95 98.0 13/21 99.0 13/21 99.0 13/21 99.0 13/21 13/8.5 97.8 100660 102.9 #N/A #N/A 90.0 102.9 102.9 102.9 102.9 102.9 102.9 102.9 102.9 102.9 10.0 102.9 10.0 102.9 10.0 10.0 10.0 10.0 10.0 10.0 10.0 10	20.49 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11/32/2 58 0- 0ufflow Base 9.28 11/32 9.7.8 10060 11/2.9 9.7.8 10060 102.9 9.4.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 1665 17.6 17.6 1665 17.6 17.6 17.6 17.6 17.6 17.6 17.6 17.6							20.49 20.49 06/13/05 10/10/165 12/31/95 11/322 11/32 11/322 11/32
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstream Call Label Network Simulation Name Simulation Type Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Cell Inflow Usume Cell Inflow Load Cell Inflow Usume Treated Outflow Usume Startes Last Reduction	sec/r - - - - - - - - - - - - -	15.13 06/13/05 01/01/065 01/01/065 12/31/05 11322 11322 11322 11322 11322 11322 11325 113555 113555 113555 113555 113555 113555 113555 1135555 1135555 113555 1135555 1135555 1135555 11355555 11355555 11355555555	16.32 06/13/05 01/01/85 01/01/85 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 8 3.81 14/2.9 40.5 6 8 6 7.6 6 7.6 6 0 0.0 0.78 8 5 22 2 3528 6 7.6 0 0.0 0.78 8 3326	17.56 06/13/05 01/01/85 01/01/85 12/31/95 11322 3 3 0utflow none Base 2.83 142.9 140.9 34/09 44.3 253 2253 2253 2253 2253 2253 2253 225	18,74 06/13/05 01/01/n65 01/01/n65 12/31/n65 12/31/n65 11/322 4 2 0utflow none Base 1,01 11322 4 2 0utflow none Base 1,01 11422,9 2,02 3,02 2,03 5,02 6,7,6 5,05 6,5,05 2,05 3,03 3,03 2,03 3,03 2,03 3,03 3,03 3,00 0,00 0	19.58 06/13/05 01/01/45 01/01/45 12/31/95 11/31/95 11/31/95 11/32/35 8 none Base 2.27 14/2.9 98.0 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 10/00	20.49 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11/32/2 5B 0.0tflow none Base 9.28 9.28 9.28 9.28 9.28 9.28 9.28 9.28							20.49 06/13/05 12/231/95 12/231/95 11/322 Total - none Base 25.24 142.9 137.2 27419 137.2 132.2 132.2 27419 132.2 132.2 27419 132.2 27419 132.2 27419 132.2 27419 27419 27419 27419 27419 27429 27449 274
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Call Label Call Label Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Call Inflow Volume Call Inflow Volume Call Inflow Conc Volume Treasted Outflow Load Treasted Stud Outflow Load Treasted Outflow Load Treasted Outflow Untlew Confidence Limit Lover Confidence Limit Total Outflow Untlew Call Arboy and A Pspass Total Outflow Untlew Call Arboy Conc Bayass Total FVM Outflow Conc Bayass Total FVM Outflow Conc Bayass Total FVM Outflow Surface Load Reduction Laad Traped In Sedments	sec/r - - - - - - - - - - - - -	15.13 06/13/05 01/01/05 01/01/05 12/31/05 111322 1132 11	16.32 06/13/05 01/01/85 01/01/85 01/01/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 2 2 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	17.55 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 111322 3 0 00 111322 3 3 0 00 11322 3 3 0 00 11322 3 3 0 00 11322 3 0 0 0 0 0 0 0 0 0 0 0 0 9 3 4 0 3 40 3 4	18,74 06(13)05 01(01)05 12/31)05 12/31)05 11322 4 0utflow none Base Base 7,8 52,6 2068 30,3 4140,9 52,6 2068 30,3 40VA 52,6 2068 30,3 40VA 52,6 2068 30,3 40VA 52,6 2068 30,3 40VA 52,6 2068 30,3 40VA 52,6 2068 30,3 40VA 52,6 2068 30,3 40VA 52,6 2068 30,3 40VA 52,6 2068 30,3 2000 40,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 16,5 20,0 20,0 20,0 20,0 20,0 20,0 20,0 20	19.58 06/13/05 01/01/65 01/01/65 12/31/85 11/322 5A 5B none Base 227 227 227 227 227 242.9 11/322 5A 5B none Base 99.0 11/32 11/32 99.0 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 10 12.9 99.0 12.9 99.0 137/10 137/10 137/10 10 16 10 10 16 5 10 10 10 10 10 10 10 10 10 10 10 10 10	20.49 20.49 20.43 20.673.05 10.707.85 21.213.05 11.322 58 20.25 2.23 2.23 2.23 2.23 2.23 2.23 2.23 2.23 2.23 2.23 2.23 2.23 2.23 2.25 2.23 2.25 2.55							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11/32/2 Total 2.52 11/32/2 Total 2.52 14/2.9 14/0.9 14/0.9 14/0.9 14/0.9 14/0.9 14/0.9 14/0.9 14/0.9 14/0.9 14/0.9 12/0.1 20/0.1 22/0.1 20/0.1
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Treasted Outflow Volume Treasted Outflow Volume Treasted Outflow Under Treasted Outflow Load Treasted FVMN Outflow Conc Upper Confidence Limit Lewer Confidence Limit Lewer Confidence Limit Lewer Confidence Limit Teal FVMN Outflow Conc Bypass Load Bypass Load Bypass Load System Context Maximum Outflow Maximum Outflow Maximum Outflow Conc Veral Load Reduction Load Trapped in Sedments Overal Load Reduction	secyr - - - - - - - - - - - - -	15.13 06/13/05 01/01/065 01/01/065 12/31/05 11322 1132	16.32 06/13/05 01/01/85 01/01/85 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 8 3.81 14/2.9 40.5 6 8 6 7.6 6 7.6 6 0 0.0 0.78 8 5 22 2 3528 6 7.6 0 0.0 0.78 8 3326	17.56 06/13/05 01/01/85 01/01/85 12/31/95 11322 3 3 0utflow none Base 2.83 142.9 140.9 34/09 44.3 253 2253 2253 2253 2253 2253 2253 20,7 0 0.0 0,90 0,93 887	18,74 06/13/05 01/01/n65 01/01/n65 12/31/n65 12/31/n65 11/322 4 2 0utflow none Base 1,01 11322 4 2 0utflow none Base 1,01 11422,9 2,02 3,02 2,03 5,02 6,7,6 5,05 6,5,05 2,05 3,03 3,03 2,03 3,03 2,03 3,03 3,03 2,05 2,05 5,05 5	19.58 06/13/05 01/01/45 01/01/45 12/31/95 11/31/95 11/31/95 11/32/3 58 none Base 2.27 14/2.9 98.0 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 137/10 10/000	20.49 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11/32/2 5B 0.0tflow none Base 9.28 9.28 9.28 9.28 9.28 9.28 9.28 9.28							20.49 06/13/05 12/231/95 12/231/95 11/322 Total - none Base 25.24 142.9 137.2 27419 137.2 132.2 142.9 27419 132.2 224.1 2242.1 2862.1 0.0 0.0 265.2 6 0.0 0.0 0.0 3.67 21156
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Dates Dates Dates Dates Dates Dates Date Date Date Date Date Date Date Date	secyr - - days days - - - - - - - - - - - - - - - - - - -	15.13 06/13/05 01/01/05 01/01/05 12/31/05 12/31/05 113/22 1 1 0 0 0 0 140.29 140.9 14	16.32 06/13/05 01/01/85 01/01/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 3.81 142.9 48.5 3.81 142.9 48.5 52.2 3.82 3.82 3.82 3.82 3.82 3.82 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.	17.56 06/13/05 01/01/85 01/01/85 12/31/85 11322 3 3 11322 3 3 142.9 140.9 77.0 3409 44.3 85.0 2503 44.9 140.9 77.0 2503 2407 44.3 85.0 2523 2507 44.0 85.0 2523 2577 0 0 0 0 0 2523 2527 0 0 0 0 0 0 3 85 0 2523 2577 0 7 0 0 0 0 2523 2577 0 7 0 0 0 0 2523 2577 0 7 0 0 0 0 0 2523 2577 0 12010 155 12010 155 12010 155 12010 155 12010 155 12010 155 12010 155 12010 155 12010 155 12010 155 12010 155 12010 155 1200 155 12010 155 1000 1000	18,74 06(13)05 01(01)05 12(31)05 12(31)05 11322 4 2 000 000 000 101 142,9 140,9 52,2 3528 67,6 52,6 52,6 52,6 52,6 52,6 52,6 52,6 52	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 5A 90 90.0 13710 138.5 97.8 0060 13710 138.5 97.8 0060 102.9 1009 40.0 13710 102.9 1009 40.0 13710 102.9 1009 40.0 15.5 1000 102.9 0.0 1.54 1.64 1.64 1.64 1.64 1.64 1.64 1.64 1.6	20.49 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 113/22 SB 0.00 000 000 000 000 000 000 0							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11322 Total Passe 25.24 142.9 140.9 197.9 277419 282.1
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstreamvisition Name Simulation Type Surface Area Mean Rainfall Mean Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Conc Treased Outflow Volume Treased Outflow And Date Label Bypass Load Bypass Load Maximum Outflow Maximum Outflow Maximum Outflow Maximum Outflow Maximum Outflow Owrall Load Reduction Owrall Load Reduction Daty Ocnfidence Limit Upper Confidence Limit Upper Confidence Limit Daty Confidence Daty Confidence Daty Confidence Daty Confidence Daty Confidence Daty Confide	sec/yr - - - - - - - - - - - - -	15.13 06/13/05 01/01/065 01/01/065 12/31/05 11322 1 11322 1 13 0.00e Base 6.03 142.9 140.9 1	16.32 06/13/05 01/01/05 01/01/05 12/31/05 11/32/2 2 2 3 2 4 4 000e Base 3.81 142.9 3.81 142.9 3.81 142.9 3.81 142.9 3.82 5.2 3528 67.6 0 0.0 0.0 7.6 0.0 7.6 0.0 7.6 0.0 7.6 0.0 7.6 0.0 7.6 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	17.56 06/13/05 01/01/65 01/01/65 12/31/95 11/32 0 atflow none Base 2.83 142.9 140.9 77.0 9 2.83 142.9 140.9 77.0 9 2.83 142.9 140.9 77.0 9 2.83 142.9 140.9 77.0 9 2.83 142.9 140.9 77.0 9 2.83 2.9,7 0 0.0 0.0 9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7 140,9 2.83 2.9,7	18,74 06/13/05 01/01/65 01/01/65 12/31/95 11322 01132 0110000000000	19.58 06/13/05 01/01/85 01/01/85 01/01/85 12/31/85 113:22 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	20.49 06/13/05 01/01/065 01/01/065 12/31/05 113:02 04/15/05 04/15/05 04/15/05 04/15/05 04/15/05 07/05							20.49 06/13/05 11/01/85 11/01/85 11/01/85 11/01/85 11/02/87
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Dates Dates Dates Dates Dates Dates Date Date Date Date Date Date Date Date	secyr - - - - - - - - - - - - - - - - - - -	15.13 06/13/05 07/01/05 07/01/05 12/31/05 11322 1 1 0 0 0 0 140.29 140.29 140.9 44.3 4	16.32 06/13/05 01/01/85 01/01/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 2 2 2 2 4 4 4 8 5 5 3.81 142.9 140.9 48.5 52.2 35228 67.6 6.5 6 7.5 9 67.5 7.5 9 61.1 1 2 2 32528 67.6 0 0 0 0 7.5 9 5 7.9 9 61.1 1 2 2 32528 67.6 9 5 7.9 9 61.1 1 2 32528 67.6 1 2 32528 67.6 1 3255 7 32557 7 32 3255 7 325 7 3255 7 3255 7 325 7 325 7 3255 7 325 7 2 325 7 32 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	17.56 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11322 3 3 00 00 00 00 44.3 85.0 283 140.9 77.0 3409 44.3 85.0 28523 287,7 440.9 140.9 77.0 28.0 20,7 20,7 20,7 20,7 20,7 20,7 20,7 20,	18,74 06(13)05 01(01)05 12/31)05 11322 4 0ufflow 11322 5 2 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 5A 5B 706 8 72 142.9 140.9 99.0 13710 138.5 97.8 10060 13710 138.5 97.8 10060 102.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10	20.49 06/13/05 01/01/85 01/01/85 01/01/85 01/01/85 01/01/85 01/01/85 01/01/85 01/01/85 92.8 142.9 142.9 142.9 97.8 10060 102.9 94.6 1665 175 0 0 0 144.9 145.9							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11/32/2 Total nome Base 25.24 142.9 140.9 197.9 27419 138.5 225.1 240.9 140.9 197.9 27419 138.5 222.1 240.0 240.0 240.0 3.67 21164 21166 2
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstream Call Label Bownstream Call Label Bownstream Call Label Surface Arrays Surface Arrays Surface Arrays Call Inflow Volume Treated Outflow Volume Surface Lada + Spass Total FVM Outflow Conc Bypass Lad Maximum Inflow Maximum Outflow Usurface Lada Reduction Lada Trapped in Sediments Upper Confidence Limit Daby Geometric Mean Outflow Geo Mean - Composites Upper Confidence Limit	sec/yr - - - - - - - - - - - - - - - - - - -	15,13 06/13/05 01/01/06 01/01/06 12/31/05 11322 1 11322 1 1 3 none Base 6.03 142.9 140.9 14	16.32 06/13/05 01/01/65 01/01/65 01/01/65 12/31/85 113:22 2 2 4 4 0.00e Base 3.81 142.9 140.9 48:5 56:5 56:5 56:5 56:5 57:9 8:5 7 6:5 57:9 61:1	17.56 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18,74 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 01/01/65 11/32/2 01/01/65 11/32/2 01/01/65 01/01/01/65 01/01/01/65 01/	19.58 06/13/05 01/01/85 01/01/85 01/01/85 12/31/85 13/31/85 13/31/85 13/32 88 88 88 88 88 88 88 88 88 88 88 88 88	20.49 20.49 20.49 20.71765 01/01/065 12/31/95 113:22 0 0 0 0 0 0 0 0 0 0 0 0 0							20.49 06/13/05 11/01/65 01/01/65 12/21/95 11/322 Total none Base 25.24 142.9 19719 1385 26.25 26.9 140.9 19739 1385 26.25 26.9 #N/A #N/A 21167 21464 21464 21464 21464 214741 3.12 21167 21464 21464 214741 3.12 2167 2167 2167 2167 2167 2167 2167 21
Run Date Starting Date for Simulation Starting Date for Output Ending Date Caluptot Caluptot Caluptot Caluptot Caluptot Simulation Type Surface Area Mean Raintal Mean Raintal Mean Raintal Mean ET Call Inflow Volume Call Inflow Volume Call Inflow Code Call Calupt Calufor Code Calupt Calu	sec/yr - - - - - - - - - - - - -	15.13 06/13/05 01/01/05 01/01/05 12/31/05 12/31/05 11322 11322 13 3 000 603 603 603 603 603 603	16.32 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 13/35 13/	17.56 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11322 3 0 00 11322 3 3 0 00 44.3 85.0 2823 28.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7	18,74 06(13)05 01(01)05 12/31)05 12/31)05 111322 4 00ufflow none as Base Base State 1101 101 101 101 101 100 100 52,2 3528 67,6 52,6 2068 30,3 30,3 52,6 2068 30,3 30,0 0,0 0,0 8,0 52,6 2068 30,3 30,0 1404 1405 1445 1445 1445 1445 1445 144	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 5A 5B 82 72 22 77 10 5 9 78 8 5 97 8 9 70 10 50 10 50 10 70 10 50 10 50 10 20 10 50 10 50 10 20 10 50 10 20 20 10 20 20 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	20.49 06/13/05 01/01/85 01/01/85 01/01/85 01/01/85 12/31/95 11322 58 0.00 01 00 00 00 00 00 00 00 00 00 00 00 0							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11/32/2 Total - - - - - - - - - - - - - - - - - - -
Run Date Starting Date for Simulation Starting Date for Output Ending Date Cutput Duration Cutput Duration Cutput Duration Cutput Duration Cutput Duration Simulation Type Surface Area Mean Raintal Mean Call Inflow Ucam Call Inflow Conc Volume Treasted Outflow Conc Volume Treasted Outflow Conc Upper Confidence Limit Lower Confidence Limit Days Sunda Surface Load Reduction Load Trapped In Sedments Overal Load Reduction Load Trapped In Sedments Overal Load Reduction Load Trapped In Sedments Overal Load Reduction Lower Confidence Limit Upper Confidence Limit U	sec/yr - - - - - - - - - - - - -	15.13 06/13/05 07/01/05 10/01/05 12/31/05 11322 11409 11409 11409 11403 11405 1140	16.32 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 3.81 140.9 40.5 6855 138.5 137.5 149.5 140	17.56 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11322 3 0 00 11322 3 3 0 8 133 2 8 3 2 8 3 2 8 3 2 8 3 2 8 3 2 8 5 0 2 5 2 8 7 7 0 3 40 9 7 7.0 3 40 9 7 7.0 3 40 9 7 7.0 2 8 5 0 2 8 5 0 2 8 5 2 8 7 8 5 0 140,0 1 8 5 0 140,0 1 8 5 0 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 1 1322 140,5 140,5 140,5 140,5 140,5 140,5 140,5 140,5 16 16 16 16 16 16 16 16 16 16 16 16 16	18,74 06(13)05 01(01)05 12/31)05 12/31)05 11322 4 0utflow none Base Base Base Base 7,8 52,6 52,6 52,6 52,6 52,6 52,6 52,6 52,6	19.58 06/13/05 01/01/65 01/01/65 12/31/95 11/322 5A 5B 80 90.0 13710 138.5 99.0 13710 138.5 99.0 13710 138.5 99.0 13710 138.5 99.0 13710 138.5 97.8 10060 112.9 140.9 102.9 #WA 4 WA 10050 102.9 165 9 9.0 156 9.0 156 9.0 102.9 10.9 10.9 10.9 10.9 10.9 10.9 10.9 10	20.49 06/13/05 01/01/85 01/01/85 01/01/85 01/01/85 12/31/95 113222 88 928 928 928 928 928 928 928 928 9							20.49 06/13/05 11/01/85 01/01/85 12/21/95 11/32/2 Total 
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstream Call Label Downstream Call Label Mean Raintal Mean Raintal Mean Raintal Mean Raintal Mean Raintal Cell Inflow Usume Cell Inflow Usume Cell Inflow Usume Treated Outflow Conc Sumpasis Usume Treated Outflow Conc Sumpasis Treated Usume Treated Outflow Conc Sumpasis Treated Usume Treated Outflow Conc Sumpasis Treated Usume Treated Treated Usume Treated Treated Usume Treated Treate Treate Tre	sec/yr - - - - - - - - - - - - -	15,13 06/13/05 01/01/05 01/01/05 12/31/05 12/31/05 11322 1 1 3 0 0 44.3	16.32 06/13/05 01/01/85 01/01/85 12/31/85 11/32/2 2 2 4 4 0 none Base Base 3.81 142.9 140.9 49.5 6855 3.82 6855 6855 3.82 5322 8322 8322 8322 8322 8322 8322 83	17.56 06/13/05 01/01/85 01/01/85 12/31/95 11322 0 0 11322 2 0 0 0 77.0 3400 77.0 3400 77.0 3400 77.0 3400 77.0 3400 77.0 3400 2523 2523 2523 2523 2523 2523 2523 25	18,74 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19.58 06/13/05 01/01/65 01/01/65 12/31/85 11322 5A 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	20.49 06/13/05 01/01/85 01/01/85 12/31/95 113/22 88 142.9							20.49 06/13/05 01/01/k5 01/01/k5 01/01/k5 12/21/k5 11/322 Total 
Run Date Starting Date for Simulation Starting Date for Output Ending Date Chuput Duration Call Label Call Label Call Label Call Call Call Call Call Call Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Call Call Call Call Call Call Call Call	sec/yr - - - - - - - - - - - - -	15.13 06/13/05 07/01/05 10/01/05 12/31/05 11322 11409 1140	16.32 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 3.81 3.81 3.81 3.81 3.81 3.81 3.82 3.81 3.85 52.2 3.622 6.7.6 4.845 52.2 3.622 6.7.6 4.845 6.7.5 52.2 3.622 6.7.6 4.845 6.7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5 7.5	17.56 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11322 3 00/01/05 80 80 80 44.3 85.0 2623 29.7 #WA 85.0 2523 29.7 #WA 85.0 2523 29.7 #WA 85.0 0.0 0.0 0.93 88.7 28.7 28.7 28.7 28.7 28.7 28.7 28.7	18,74 06(13)05 01(01)05 12/31)05 12/31)05 11322 4 0utflow none Base Base Base Base 7,8 52,6 52,6 52,6 52,6 52,6 52,6 52,6 52,6	19.58 06/13/05 01/01/65 01/01/65 12/31/95 11/322 5A 5B 80 90.0 13710 138.5 97.8 10060 112.9 90.0 13710 138.5 97.8 10060 112.9 97.8 10060 112.9 102.9 #WA 40060 112.9 102.9 #WA 40.0 156 102.9 #WA 40.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 156 9.0 157 157 157 157 157 157 157 157 157 157	20.49 06/13/05 01/01/85 01/01/85 01/01/85 01/01/85 12/31/95 113222 88 92.8 92.8 92.8 92.8 92.8 92.8 92.							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11/32/2 Total 
Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Call Label Downstream Call Label Downstream Call Label Mean Raintal Mean Raintal Mean Raintal Mean Raintal Mean Raintal Cell Inflow Usume Cell Inflow Usume Cell Inflow Usume Treated Outflow Conc Sumpasis Usume Treated Outflow Conc Sumpasis Treated Usume Treated Outflow Conc Sumpasis Treated Usume Treated Outflow Conc Sumpasis Treated Usume Treated Treated Usume Treated Treated Usume Treated Treate Treate Tre	sec/yr - - - - - - - - - - - - -	15,13 06/13/05 01/01/05 01/01/05 12/31/05 12/31/05 11322 1 11322 1 132 11322 1 132 1 140.9 49.5 603 142.9 140.9 49.5 603 142.9 140.9 49.5 603 142.9 140.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 49.5 603 142.9 44.3 44.3 44.3 44.3 44.3 44.3 44.4 30.0 3405 44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.3 44.5 603 603 603 603 603 603 603 603	16.32 06/13/05 01/01/R5 01/01/R5 12/31/85 11/32/2 2 2 4 4 7 11/32/2 2 3.81 142.9 140.9 49.5 6855 53.8 2 55.2 55.2 55.2 55.2 55.2 55.2 55.2	17.56 06/13/05 01/01/85 01/01/85 12/31/95 11322 0 01/01/85 2/31/95 11322 0 00/01/85 2/33/95 11322 2/33 142.9 140.9 77.0 3400 44.3 853 142.9 140.9 77.0 3400 44.3 853 142.9 77.0 3400 44.3 853 142.9 77.0 3400 2523 2523 2523 2523 2523 2523 2523 25	18,74 06/13/05 01/01/65 01/01/65 12/31/05 11322 4 200 000 000 11322 4 000 000 000 000 000 000 000 000 000	19.58 06/13/05 01/01/65 01/01/65 12/31/85 11322 5A 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	20.49 06/13/05 01/01/85 01/01/85 12/31/95 113/22 88 142.9							20.49 06/13/05 01/01/k5 01/01/k5 01/01/k5 12/21/k5 11/322 Total 
Run Date Starting Date for Simulation Starting Date for Output Ending Date Chuput Duration Call Label Call Label Call Label Call Call Call Call Call Call Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Call Call Call Call Call Call Call Call	sec/yr - - - - - - - - - - - - -	15,13 06/13/05 01/01/06 01/01/06 12/31/05 12/31/05 11322 1 11322 1 13 0,000 0,000 0,	16.32 06/13/05 01/01/65 01/01/65 12/31/85 12/31/85 113:22 2 2 3 2 4 4 4 0.0 8 8 3.81 142.9 140.9 48.5 5 56.5 56.5 57.6 8 49.4 40.5 55.2 53528 67.6 849/4 847.4 52.2 53528 67.6 849/4 847.4 52.2 53528 67.6 849/4 847.4 52.2 53528 67.6 849/4 847.4 85.5 55.5 55.2 55.2 55.2 55.2 55.2 55.2	17.56 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 01/01/85 11/32/2 01/01/85 01/01/85 11/32/2 00/01/85 11/32/2 00/01/85 11/32/2 28/3 14/0.9 14/0.9 14/0.9 14/0.9 25/23 28/7 14/0.9 25/23 28/7 14/0.9 25/23 28/7 14/0.9 0 0 0 0 0 0 0 887 11/32 28/7 16/8 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 2 20/7 20/8 2 20/7 20/8 20/8 20/8 20/8 20/8 20/8 20/8 20/8	18,74 06/13/05 01/01/06 01/01/06 10/01/05 12/31/05 11/322 11/322 01/01/06 11/322 01/01/06 11/322 01/01/06 11/322 01/01/06 01/06	19.58 06/13/05 01/01/65 01/01/65 12/31/85 11322 5A 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	20.49 06/13/05 01/01/85 01/01/85 12/31/95 113/22 88 142.9							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11/32/2 Total 
Run Date Starting Date for Simulation Starting Date for Output Ending Date Chuput Duration Call Label Call Label Call Label Call Call Call Call Call Call Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Call Call Call Call Call Call Call Call	sec/yr - - - - - - - - - - - - -	15,13 06/13/05 01/01/05 01/01/05 12/31/05 113/22 1 1 0 0 0 0 140.29 140.9	16.32 06/13/05 01/01/R5 01/01/R5 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 3.81 142.9 48.5 52.2 3.81 142.9 48.5 52.2 3.82 140.9 49.5 6855 52.2 3.82 140.9 49.5 67.6 0 0 0 0.0 7.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 51.0 55.9 51.0 55.9 51.0 55.9 51.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0	17.56 06/13/05 01/01/85 01/01/85 12/31/95 113/22 3 113/22 3 113/25 2 83 142.9 140.9 77.0 3409 44.3 85.0 2523 2523 2527 440.9 140.9 77.0 2523 2527 0 0 0 0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 470 470 2523 2527 257 257 257 257 257 257 257 257 25	18,74 06/13/05 01/01/05 12/31/05 11/32/31/05 11/32/3 4 2000 000 000 000 000 000 000 000 000	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 1132/2 5A 90 90.0 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 102.9 0.0 1.54 1.64 1.64 1.64 1.65 1.02 9.8 9.5 5 #NVA #NVA 91.8 95.5 #NVA	20.49 06/13/05 01/01/85 01/01/85 12/31/95 113/22 88 142.9							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11/32/2 Total 
Run Date Starting Date for Simulation Starting Date for Output Ending Date Chuput Duration Call Label Call Label Call Label Call Call Call Call Call Call Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Call Call Call Call Call Call Call Call	sec/yr - - - - - - - - - - - - -	15,13 06/13/05 01/01/05 01/01/05 12/31/05 113/22 1 1 0 0 0 0 140.29 140.9	16.32 06/13/05 01/01/65 01/01/65 12/31/85 12/31/85 113:22 2 2 3 2 4 4 4 0.0 8 8 3.81 142.9 140.9 48.5 5 56.5 56.5 57.6 8 49.4 40.5 55.2 53528 67.6 849/4 847.4 52.2 53528 67.6 849/4 847.4 52.2 53528 67.6 849/4 847.4 52.2 53528 67.6 849/4 847.4 85.5 55.5 55.2 55.2 55.2 55.2 55.2 55.2	17.56 06/13/05 01/01/85 01/01/85 12/31/95 113/22 3 113/22 3 113/25 2 83 142.9 140.9 77.0 3409 44.3 85.0 2523 2523 2527 440.9 140.9 77.0 2523 2527 0 0 0 0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 470 470 2523 2527 257 257 257 257 257 257 257 257 25	18,74 06/13/05 01/01/05 12/31/05 11/32/31/05 11/32/3 4 2000 000 000 000 000 000 000 000 000	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 1132/2 5A 90 90.0 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 102.9 0.0 1.54 1.64 1.64 1.64 1.65 1.02 9.8 9.5 5 #NVA #NVA 91.8 95.5 #NVA	20.49 06/13/05 01/01/85 01/01/85 12/31/95 113/22 88 142.9							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11/32/2 Total 
Run Date Starting Date for Simulation Starting Date for Output Ending Date Chuput Duration Call Label Call Label Call Label Call Call Call Call Call Call Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Call Call Call Call Call Call Call Call	sec/yr - - - - - - - - - - - - -	15,13 06/13/05 01/01/05 01/01/05 12/31/05 113/22 1 1 0 0 0 0 140.29 140.9	16.32 06/13/05 01/01/R5 01/01/R5 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 13/85 3.81 142.9 48.5 52.2 3.81 142.9 48.5 52.2 3.82 140.9 49.5 6855 52.2 3.82 140.9 49.5 67.6 0 0 0 0.0 7.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 51.0 55.9 51.0 55.9 51.0 55.9 51.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0	17.56 06/13/05 01/01/85 01/01/85 12/31/95 113/22 3 113/22 3 113/25 2 83 142.9 140.9 77.0 3409 44.3 85.0 2523 2523 2527 440.9 140.9 77.0 2523 2527 0 0 0 0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 470 470 2523 2527 470 470 470 2523 2527 257 257 257 257 257 257 257 257 25	18,74 06/13/05 01/01/05 12/31/05 11/32/31/05 11/32/3 4 2000 000 000 000 000 000 000 000 000	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 1132/2 5A 90 90.0 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 102.9 0.0 1.54 1.64 1.64 1.64 1.65 1.02 9.8 9.5 5 #NVA #NVA 91.8 95.5 #NVA	20.49 06/13/05 01/01/85 01/01/85 1/01/85 1/01/85 1/01/85 1/01/85 1/02/85 1/							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11/32/2 Total 
Run Date Starting Date for Simulation Starting Date for Output Ending Date Chuput Duration Call Label Call Label Call Label Call Call Call Call Call Call Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Call Call Call Call Call Call Call Call	sec/yr - - - - - - - - - - - - -	15,13 06/13/05 01/01/05 01/01/05 12/31/05 113/22 1 1 0 0 0 0 140.29 140.9	16.32 06/13/05 01/01/R5 01/01/R5 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 13/85 3.81 142.9 48.5 52.2 3.81 142.9 48.5 52.2 3.82 140.9 49.5 6855 52.2 3.82 140.9 49.5 67.6 0 0 0 0.0 7.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 51.0 55.9 51.0 55.9 51.0 55.9 51.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0	17.56 06/13/05 01/01/85 01/01/85 12/31/95 113/22 3 113/22 3 113/25 2 83 142.9 140.9 77.0 3409 44.3 85.0 2523 2523 2527 440.9 140.9 77.0 2523 2527 0 0 0 0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 470 470 2523 2527 470 470 470 2523 2527 257 257 257 257 257 257 257 257 25	18,74 06/13/05 01/01/05 12/31/05 11/32/31/05 11/32/3 4 2000 000 000 000 000 000 000 000 000	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 1132/2 5A 90 90.0 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 102.9 0.0 1.54 1.64 1.64 1.64 1.65 1.02 9.8 9.5 5 #NVA #NVA 91.8 95.5 #NVA	20.49 06/13/05 01/01/85 01/01/85 1/01/85 1/01/85 1/01/85 1/01/85 1/02/85 1/							20.49 06/13/05 01/01/65 01/01/65 12/21/95 11/32/2 Total 
Run Date Starting Date for Simulation Starting Date for Output Ending Date Chuput Duration Call Label Call Label Call Label Call Call Call Call Call Call Simulation Type Surface Area Mean Rainfall Mean Rainfall Mean Rainfall Mean Rainfall Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Volume Call Inflow Call Call Call Call Call Call Call Call	sec/yr - - - - - - - - - - - - -	15,13 06/13/05 01/01/05 01/01/05 12/31/05 113/22 1 1 0 0 0 0 140.29 140.9	16.32 06/13/05 01/01/R5 01/01/R5 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 13/85 3.81 142.9 48.5 52.2 3.81 142.9 48.5 52.2 3.82 140.9 49.5 6855 52.2 3.82 140.9 49.5 67.6 0 0 0 0.0 7.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 51.0 55.9 51.0 55.9 51.0 55.9 51.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0	17.56 06/13/05 01/01/85 01/01/85 12/31/95 113/22 3 113/22 3 113/25 2 83 142.9 140.9 77.0 3409 44.3 85.0 2523 2523 2527 440.9 140.9 77.0 2523 2527 0 0 0 0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 470 470 2523 2527 257 257 257 257 257 257 257 257 25	18,74 06/13/05 01/01/05 12/31/05 11/32/31/05 11/32/3 4 2000 000 000 000 000 000 000 000 000	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 1132/2 5A 90 90.0 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 102.9 0.0 1.54 1.64 1.64 1.64 1.65 1.02 9.8 9.5 5 #NVA #NVA 91.8 95.5 #NVA	20.49 06/13/05 01/01/85 01/01/85 1/01/85 1/01/85 1/01/85 1/01/85 1/02/85 1/							20.49 06/13/05 01/01/65 01/01/65 12/31/95 11/322 Total none Passe 25.24 142.9 140.9 197.9 27419 138.5 28.24 24.2 24.2 24.2 24.2 24.2 24.2 24.
Run Date Run Date Starting Date for Simulation Starting Date for Output Ending Date Carlput Duration Carl Label Carlput Duration Carl Label Carl Label Network Simulation Name Simulation Type Surface Area Mean Raintal Mean Raintal Mean Raintal Mean Raintal Mean Raintal Carl Inflow Volume Carl Inflow Volume Carl Inflow Volume Carl Inflow Load Treased Outflow Volume Treased SVM Outflow Conc Upper Confidence Limit Daver Confidence Limit Total Outflow Volume Carl Carl Scheme Surface Load Reduction Load Trapped in Sedments Overal Load Reduction Load Reduction Load Gen Mean - Composites Upper Confidence Limit Frequency Outflow Conc > 10 pph Frequency Outflow Conc > 20 pph	sec/yr - - - - - - - - - - - - -	15,13 06/13/05 01/01/05 01/01/05 12/31/05 113/22 1 1 0 0 0 0 140.29 140.9	16.32 06/13/05 01/01/R5 01/01/R5 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 12/31/85 13/85 3.81 142.9 48.5 52.2 3.81 142.9 48.5 52.2 3.82 140.9 49.5 6855 52.2 3.82 140.9 49.5 67.6 0 0 0 0.0 7.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 61.1 #WA 57.9 51.0 55.9 51.0 55.9 51.0 55.9 51.0 55.0 55.0 55.0 55.0 55.0 55.0 55.0	17.56 06/13/05 01/01/85 01/01/85 12/31/95 113/22 3 113/22 3 113/25 2 83 142.9 140.9 77.0 3409 44.3 85.0 2523 2523 2527 440.9 140.9 77.0 2523 2527 0 0 0 0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 44.3 85.0 2523 2527 470 470 470 2523 2527 257 257 257 257 257 257 257 257 25	18,74 06/13/05 01/01/05 12/31/05 11/32/31/05 11/32/3 4 2000 000 000 000 000 000 000 000 000	19.58 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 1132/2 5A 90 90.0 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 137:10 138.5 97.8 00060 102.9 0.0 1.54 1.64 1.64 1.64 1.65 1.02 9.8 9.5 5 #NVA #NVA 91.8 95.5 #NVA	20.49 06/13/05 01/01/85 01/01/85 1/01/85 1/01/85 1/01/85 1/01/85 1/02/85 1/							20.49 06/13/05 01/01/05 01/01/05 12/31/05 11/32/2 Total 70 00 11/322 70 11/322 70 11/322 70 11/322 70 11/322 70 11/3 70 70 70 70 70 70 70 70 70 70 70 70 70



Burns &



Existing Destrictions	Input Variable Design Case Name Input Series Name Starting Date for Simulation	Units -	Value Alt1 TS_STA_Mod 01/01/65	Case Descript Existing, Cell Alternative 1 Monthly Info	s 1,2 & 5AEme	ergent & Cell 3,4	& 5BSAV_3								]
Internet method         1         2         Description         Mark         Part of the set of t	Ending Date for Simulation Starting Date for Output		12/31/95 01/01/65			Base									]
nine de consiste l'arres en la conserve de la conse	Number of Iterations		3	Output Variable	e	Mean				Diagnostics					
Bird of Cong         Bird	Output Averaging Interval Inflow Conc Scale Factor	days	7	FWM Outflow GM Outflow C	C (ppb) (ppb)										
Control         Control <t< td=""><td>Rainfall P Conc</td><td>ppb</td><td>10</td><td>Load Reduction</td><td>in %</td><td>81%</td><td>#N/A</td><td>#N/A</td><td></td><td>Iterations &amp; Co</td><td>nvergence</td><td></td><td>3</td><td>0.0%</td><td></td></t<>	Rainfall P Conc	ppb	10	Load Reduction	in %	81%	#N/A	#N/A		Iterations & Co	nvergence		3	0.0%	
Name        >         No.         No.         No.         No.         No.         No.         No.           Nonconstructure         1	Cell Number>	mg/m2-yr		Bypass Load ( 2	%) 3		5	6	7	warning/Error 8		10		12	_
Internation         No.         0.25         0.24         0.41         0.23         0.24         0.24         0.25		:	1	2	3		5A								-
Banco Area         Inst.         And         101         2.2         2.2         2.3         101         2.2         2.7         2.3         101         101         2.7         2.3         101         101         2.7         2.3         101         101         2.7         2.3         101         101         2.7         2.3         101         101         2.7         2.3         101         101         2.7         2.3         101 <t< td=""><td>Inflow Fraction</td><td></td><td>0.25</td><td>0.25</td><td>0412_0</td><td>UANU</td><td>0.5</td><td>04120</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Inflow Fraction		0.25	0.25	0412_0	UANU	0.5	04120							
Max. Visit of Pure Data         Mm         110         1.20         2.00 <th2.00< th="">         2.00         2.00<!--</td--><td>Downstream Cell Number Surface Area</td><td>- km2</td><td></td><td>4</td><td>2.83</td><td>1.01</td><td>6 2 27</td><td>9.28</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th2.00<>	Downstream Cell Number Surface Area	- km2		4	2.83	1.01	6 2 27	9.28							
Manual Optimum Canada         Dama of the fibration of the	Mean Width of Flow Path		1.10	1.74	2.48	1.83	1.78	2.34							
Bitsen: There         Inc.	Number of Tanks in Series Minimum Depth for Releases	- cm	2.0	2.0	2.0	2.0	2.0	3.0							
Outline Magin         One         124         21         21         21         23	Release 1 Series Name Release 2 Series Name Outflow Series Name Depth Series Name														
Outling Control	Outflow Control Depth		55	67	46	60	60	60							
Bapes Desh         Max         First	Outflow Coefficient - Exponent	-								1					
Maximu forder         Image         Total         Opdate         Opdate         Opdate         Opdate         Opdate		- cm	1.24	1.38	1.03	1.28	2.75	3.78		1					
Inter-Sensign Res         (interlation of the sensition of	Maximum Inflow	hm3/day													
Intro-Bengg Contol Rev         main         101         101         103         101         103         20         20         20           Culture Seegage Contol Elev         main         0.34         0.07         0.070         0.000	Inflow Seepage Rate		0.01038	0.00547	0.00676	0.00485		-		+	-				
Outline Single Radie         (min) / (min)         (min) / (min)	Inflow Seepage Control Elev	cm				82 20	20	20		1					
Outline Service (Darware Service) Results (Particular)         orthology (Particular)	Outflow Seepage Rate	(cm/d) / cm	0.00346	20	0.00173	20	0.01577	0.00496		1					
Benegation bind	Outflow Seepage Control Elev	cm	43	20	40	20	-46	-46		1					
Second Tractor         -	Seepage Recycle to Cell Number	-	20	20	20	20									
Initial Water Column Content         ppb         30         30         30         30         30         30         30           C0 = Conc et 1 guind P Storage         ppb         2         20							0.91	0.8							
bital Water Schein Diegé         rem         0.0         60 <th< td=""><td>Initial Water Column Conc</td><td>ppb</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Initial Water Column Conc	ppb													
C1 = Core at 9 m/2 Petergap       ppb       22	Initial Water Column Depth	mg/m2 cm													
C2 = Corr at HeMax Uptale       ppb       300 <t< td=""><td>C0 = Conc at 0 g/m2 P Storage</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	C0 = Conc at 0 g/m2 P Storage														
21 - Startmard Uptate Deptin         om         40         40         40         40         40         40         40         40         40         100	C2 = Conc at Half-Max Uptake	ppb	300	300	300	300	300	300							
Z = Loose Prenday Deph         orn         100         2233         130         2333         130         2333         130         2333         2333         130         2333 <th< td=""><td></td><td>m/yr</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		m/yr													
Opport         Units         1         2         3         4         5         6         7         8         9         10         11         12         Operation           Num Date         more         061305         061305         061305         061305         061305         061305         0010165         010165	Z2 = Lower Penalty Depth	cm	100	100	100	100	100	100							
Description         sec/v         16.94         17.94         19.10         20.16         21.45         20.23         20.00         20.22         20.00         20.22         20.00         20.22         20.00         20.22         20.00         20.22         20.00         20.22         20.00         20.22         20.00         20.22         20.00         20.22         20.00         20.22         20.00         20.00         20.00         20.00         20.00         20.22         20.00	Z3 = Upper Penalty Depth	cm			200			200		_					1
Run Date         ·         Oblights         Oblights <thoblights< th="">         Obl</thoblights<>									7	8	9	10	11	12	
Barling Date for Output         -         0101/165	Run Date	-	06/13/05	06/13/05	06/13/05	06/13/05	06/13/05	06/13/05							06/13/05
Output         Output         Inspace         Inspace <thinspace< th=""> <thinspace< th=""> <thins< td=""><td>Starting Date for Output</td><td></td><td>01/01/65</td><td>01/01/65</td><td>01/01/65</td><td>01/01/65</td><td>01/01/65</td><td>01/01/65</td><td></td><td></td><td></td><td></td><td></td><td></td><td>01/01/65</td></thins<></thinspace<></thinspace<>	Starting Date for Output		01/01/65	01/01/65	01/01/65	01/01/65	01/01/65	01/01/65							01/01/65
Call Label         1         2         3         4         Outforw         5B         Outforw         FB         Outforw         FB </td <td></td> <td>-</td> <td></td> <td>12/31/95</td>		-													12/31/95
Network Simulation Name         -         none         none<	Cell Label	uuju	1	2	3	4	5A	5B							
Simulation Type         -         Base	Downstream Cell Label Network Simulation Name				Outflow none	Outflow none	5B none	Outflow none							- none
Mean Earlial         om/yr         142.9	Simulation Type	-	Base	Base			Base								
Cell Inflow Volume         hm3/y         49.5         47.5         77.0         52.2         99.0         97.8         99.0         97.8           Cell Inflow Conc         ppb         135.5         135.5         135.5         135.5         10060         10070           Cell Inflow Conc         ppb         135.5         135.5         135.5         102.9         13710         10080         133.5         122.2         13710         10080         122.2         13710         10080         122.3         13715         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         133.5         102.9         17.6         123.3         102.9         17.6         123.3         102.9         17.6         123.3         102.9         17.6         123.3         102.9         17.6         123.3         102.9         17.6         123.3	Mean Rainfall	cm/yr	142.9	142.9	142.9	142.9	142.9	142.9							142.9
Cell Inflow Load       kg/r       6855       6855       3409       3228       13710       10000       27414         Cell Inflow Load       ppb       138.5       44.3       67.6       138.5       44.3       67.6       138.5       222.4       52.6       57.8       94.6       322.5		cm/yr bm3/yr				140.9		140.9 97.8		-					140.9
Treated Cuttlow Volume         Image         T7.0         52.2         85.0         52.6         97.8         94.6         222.1           Treated Cuttlow Load         kg/y         3409         3528         117.6         10060         1665         122.0         152.	Cell Inflow Load	kg/yr	6855	6855	3409		13710	10060							27419
Treated Cuttor Load         kg/yr         34.09         352.8         147.6         206.8         10060         1665         22.0	Treated Outflow Volume	hm3/yr	77.0	52.2	85.0	52.6	97.8	94.6							232.1
Upper Confidence Limit         ppb         RNA	Treated Outflow Load	kg/yr	3409	3528	1476	2068	10060	1665							5208
Lower Confidence Limit         ppb         RNA	Upper Confidence Limit	ppb	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A							#N/A
Total Cultow Load + Byaas         kglyr         3409         3528         1476         2008         10060         1665         2819           Byaas Load         kglyr         0 </td <td>Lower Confidence Limit Total Outflow Volume + Bypass</td> <td>ppb</td> <td>77.0</td> <td>52.2</td> <td>85.0</td> <td>52.6</td> <td>97.8</td> <td>94.6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>232.1</td>	Lower Confidence Limit Total Outflow Volume + Bypass	ppb	77.0	52.2	85.0	52.6	97.8	94.6							232.1
Bypass Load         bypy         0	Total Outflow Load + Bypass	kg/yr	3409	3528	1476	2068	10060	1665							28619.8
Bygass Load         %         0.0         0	Bypass Load	ppb kg/yr	0	0	0	0	0	0							0.0
Maximum Outlow         Im 3/d         0.90         0.89         0.93         0.92         1.64         1.82         Image: Constraint of Constrai		%													
Load Trapped in Sediments         kg/yr         4199         3505         2188         1486         2233         8518         22489           Lower Confidence Limit         %         FNA         FN	Maximum Outflow	hm3/d	0.90	0.89	0.93	0.92	1.64	1.82							3.67
Overall Load Reduction         %         50%         49%         57%         41%         27%         83%         ettic           Lower Confidence Limit         %         #NA	Load Trapped in Sediments	kg/yr kg/yr		3505			3650 2633								
Upper Confidence Limit         %         #N/A         #N/A </td <td>Overall Load Reduction</td> <td>%</td> <td></td>	Overall Load Reduction	%													
Outflow Geo Mean - Composities         ppb         39.7         61.1         14.6         32.0         95.5         12.6           Upper Confidence Limit         ppb         #NVA	Upper Confidence Limit	%	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A							#N/A
Upper Confidence Limit         ppb         #N/A	Daily Geometric Mean Outflow Geo Mean - Composites	ppb						12.6							16.4
Frequency Outflow Conc > 10 ppb         '%         100%         100%         100%         100%         68%         68%         57%           Frequency Outflow Conc > 20 ppb         %         100%         11%         96%         100%         61%         55%	Upper Confidence Limit	ppb	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A							#N/A
Frequency Outline Conc. S 20 ppb         %         100%         11%         96%         100%         15%         65%           Frequency Outline Conc. S 20 ppb         %         85%         100%         15%         28%         26%	Frequency Outflow Conc > 10 ppb	%	100%	100%	96%	100%	100%	68%							97%
Freq Outlow Volume > 10 ppb         %         100%         98%         100%         90%         99%         99%           Warning or Error Messages         Cells 3.3 Deptor und calls mays for SXJ. 28. 48. 47. 97 m         6         6         6         6         6         6         6         6         6         10.0%, 30. 48. 48. 47. 97 m         6         6         6         6         6         10.0%, 30. 48. 48. 47. 97 m         6         6         6         6         6         6         6         6         6         10.0%, 30. 48. 48. 47. 97 m         6         6         6         6         6         6         10.0%, 30. 48. 48. 49. 49. 49. 49. 49. 49. 49. 49. 49. 49		%	100%	100%	11%	96%	100%	15%							56%
Cell# 3 3 FromWorking out of cells in mage for SMV_3: B 56 x, 112 - 374 mOldsy           Cell# 4 4 Depth out or adio.mage for SAV_3: B 76 x, 112 - 374 mOldsy           Cell# 4 4 Depth out or adio.mage for SAV_3: B 76 x, 112 - 374 mOldsy           Cell# 4 50 Epth out or adio.mage for SAV_3: B 76 x, 112 - 374 mOldsy           Cell# 6 50 Epth out or adio.mage for SAV_3: B 76 x, 112 - 374 mOldsy           Cell# 6 50 Epth out or adio.mage for SAV_3: B 76 x, 112 - 374 mOldsy           Cell# 6 50 Epth out or adio.mage for SAV_3: B 76 x, 112 - 374 mOldsy				92%											99%
	Frequency Outflow Conc > 50 ppb Freq Outflow Volume > 10 ppb	%	100%												

# Table C.5 Results of DMSTA2 Analysis, STA-1W, Alternative 1 – with 31-yr Monthly Average TP Concentrations



Table C.6 Results of DMSTA2 Analysis, STA-1W Existing Design, Alternative 2 –
with 31-yr Monthly Average TP Concentrations

Input Variable Design Case Name	Units	Value Alt2	Case Descript	ion: s 1,2 & 5AEme	argent & Cell 3.4	& 5BSAV 3								1
Input Series Name		TS_STA_Mod	Alternative 2											
Starting Date for Simulation Ending Date for Simulation	-	01/01/65 12/31/95	Redistributed	l inflows Balan Cell 1 Area, Incre	ced Outflow Co	ncentrations								
Ending Date for Simulation Starting Date for Output		12/31/95 01/01/65	Monthly Inflov	w Data	ase Gell 3 Alea									
Integration Steps Per Day		3	Simulation Typ	e:	Base									-
Number of Iterations	-	3	Output Variabl		Mean	Lower CL #N/A	Upper CL		Diagnostics			0.0%	0.0%	
Output Averaging Interval Inflow Conc Scale Factor	days	1	FWM Outflow GM Outflow C		16.0 12.1	#N/A #N/A	#N/A #N/A			rror Mean & Ma Error Mean & Ma		0.0%	0.0%	
Rainfall P Conc	ppb	10	Load Reductio	in %	87%	#N/A	#N/A		Iterations & Co	nvergence		3	0.0%	
Atmospheric P Load (Dry)	mg/m2-yr	20	Bypass Load (	%)	0.0%	-	6	-	Warning/Error	Messages		7	40	
Cell Number> Cell Label		1	2	3	4	5 5A	5B			9	10	11	12	1
Vegetation Type	>	EMG_3	EMG_3	SAV_3	SAV_3	EMG_3	SAV_3							
Inflow Fraction		0.39	0.2			0.41								
Downstream Cell Number Surface Area	- km2	3 3.02	4	5.85	2.91	6 2.27	9.28							
Mean Width of Flow Path	кт2 km	3.02	1.91	2.48	2.91	1.78	9.28							
Number of Tanks in Series	-	2.0	2.0	4.0	6.0	2.0	3.0							
Minimum Depth for Releases	cm													
Release 1 Series Name Release 2 Series Name														
Outflow Series Name														
Depth Series Name		55	67		60	60	60							
Outflow Control Depth Outflow Weir Depth	cm cm	55	67	46	60	60	60							
Outflow Coefficient - Exponent	-	2.35	2.51	2.5	2.5	2.49	2.25							
Outflow Coefficient - Intercept	-	1.24	1.38	1.03	1.28	2.75	3.78							
Bypass Depth	cm													
Maximum Inflow Maximum Outflow	hm3/day hm3/day													
Inflow Seepage Rate	(cm/d) / cm	0.01038	0.00547	0.00676	0.00485									
Inflow Seepage Control Elev	cm	183	101	163	82	20	20							
Inflow Seepage Conc Outflow Seepage Rate	ppb (cm/d) / cm	20 0.00346	20	20 0.00173	20	20 0.01577	20 0.00496			1	1			
Outflow Seepage Control Elev	cm	43		40	1	-46	-46			1	1			
Max Outflow Seepage Conc	ppb	20	20	20	20	20	20							
Seepage Recycle to Cell Number	-					0.91	0.8							
Seepage Recycle Fraction Seepage Discharge Fraction														
Initial Water Column Conc	ppb	30	30	30	30	30	30							
Initial P Storage Per Unit Area	mg/m2	500 50	500 50	500 50	500 50	500 50	500 50							
Initial Water Column Depth C0 = Conc at 0 g/m2 P Storage	cm ppb		30	3	3	3	3							-
C1 = Conc at 1 g/m2 P storage	ppb	3 22	22	22	22	22	22							
C2 = Conc at Half-Max Uptake	ppb	300 16.8	300	300	300 52.5	300	300 52.5							
K = Net Settling Rate at Steady State Z1 = Saturated Uptake Depth	m/yr cm	16.8 40	16.8 40	52.5 40	52.5 40	16.8 40	52.5 40							
Z2 = Lower Penalty Depth	cm	100	100	100	100	100	100							
Z3 = Upper Penalty Depth	cm	200	200	200	200	200	200							]
Output Variables	Units	1	2	3	4	5	6	7	8	9	10	11	12	Overall
Output Variables Execution Time	Units sec/yr	1 17.68	2 18.74	3 20.29	4 22.00	5 22.94	6 23.90	7	8	9	10	11	12	Overall 23.90
Execution Time Run Date	sec/yr	06/13/05	18.74 06/13/05	20.29 06/13/05	22.00 06/13/05	22.94 06/13/05	23.90 06/13/05	7	8	9	10	11	12	23.90 06/13/05
Execution Time Run Date Starting Date for Simulation		06/13/05 01/01/65	18.74 06/13/05 01/01/65	20.29 06/13/05 01/01/65	22.00 06/13/05 01/01/65	22.94 06/13/05 01/01/65	23.90 06/13/05 01/01/65	7	8	9	10	11	12	23.90 06/13/05 01/01/65
Execution Time Run Date	sec/yr - -	06/13/05	18.74 06/13/05	20.29 06/13/05	22.00 06/13/05	22.94 06/13/05	23.90 06/13/05	7	8	9	10	11	12	23.90 06/13/05
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration	sec/yr - -	06/13/05 01/01/65 01/01/65 12/31/95 11322	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322	20.29 06/13/05 01/01/65 01/01/65 12/31/95 11322	22.00 06/13/05 01/01/65 01/01/65	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11322	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322	7	8	9	10	11	12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Output Duration Cell Label	sec/yr - - -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 2	20.29 06/13/05 01/01/65 01/01/65 12/31/95 11322 3	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 4	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B	7	8	9	10	11	12	23.90 06/13/05 01/01/65 01/01/65 12/31/95
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration	sec/yr - - -	06/13/05 01/01/65 01/01/65 12/31/95 11322	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4	20.29 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow	22.00 06/13/05 01/01/65 01/01/65 12/31/95	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11322	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322	7	8	9	10	11	12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type	sec/yr - - days -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base	20.29 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base	7	8	9	10	11	12	23.90 06/13/05 01/01/65 12/31/95 11322 Total - none Base
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area	sec/yr - - days - - - km2	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 3.02	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 1.91	20.29 06/13/05 01/01/65 12/31/95 11322 3 Outflow none Base 5.85	22.00 06/13/05 01/01/65 12/31/95 11322 4 Outflow none Base 2.91	22.94 06/13/05 01/01/65 12/31/95 11322 5A 5B none Base 2.27	23.90 06/13/05 01/01/65 12/31/95 11322 5B Outflow none Base 9.28	7	8	9	10	11	12	23.90 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Raintal	sec/yr - - days -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 3.02 142.9	18.74 06/13/05 01/01/65 12/31/95 11322 2 4 none Base 1.91 142.9	20.29 06/13/05 01/01/65 12/31/95 11322 3 Outflow none Base 5.85 142.9	22.00 06/13/05 01/01/65 12/31/95 11322 4 Outflow none Base 2.91 142.9	22.94 06/13/05 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9	23.90 06/13/05 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9	7	8	9	10	11	12	23.90 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Raintal Mean ET Cell Inflow Volume	sec/yr - - days - km2 cm/yr cm/yr hm3/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 3.02 142.9 140.9 77.2	18.74 06/13/05 01/01/65 12/31/95 11/322 2 4 none Base 1.91 142.9 140.9 39.6	20.29 06/13/05 01/01/65 12/31/95 11/322 3 Outflow none Base 5.85 142.9 140.9 90.6	22.00 06/13/05 01/01/65 12/31/95 11/322 4 Outflow none Base 2.91 142.9 140.9	22.94 06/13/05 01/01/65 12/31/95 11/322 5A 5B none Base 2.27 142.9 140.9 81.2	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 80.0	7	8	9	10	11	12	23.90 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Downstream Cell Label Network Date Starting Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Volume	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 3.02 142.9 140.9 77.2 10694	18.74 06/(13/05 01/01/05 01/01/05 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 13/22 2 4 none Base 1.91 142.9 140.9 39.6 5484	20.29 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 5.85 142.9 140.9 90.6 7793	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 2.91 142.9 140.9 3516	22.94 06/(13/05 01/01/05 01/01/05 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 81.2 11242	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 80.0 7774	7	8	9	10	11	12	23.90 06/13/05 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Downstream Cell Label Sundaco Type Sundaco Area Sundaco Type Cell Inflow Volume Cell Inflow Volume Cell Inflow Coad Cell Inflow Coad	sec/yr - - days - km2 cm/yr cm/yr hm3/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 3.02 142.9 140.9 77.2 10694 138.5 90.6	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 1.91 142.9 140.9 39.6 5484 138.5 40.9	20.29 06/13/05 01/01/65 01/01/65 12/31/95 111322 3 Outflow none Base 5.85 142.9 140.9 140.9 140.9 140.9 140.9 140.9 140.9	22.00 06/13/05 01/01/65 01/01/65 12/31/95 111322 4 0utflow none Base 2.91 142.9 140.9 3516 85.9 42.2	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 142.9 142.9 142.9 81.2 11242 138.5 80.0	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 140.9 7774 97.2 76.8	7	8	9	10	11	12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 140.9 197.9 27419 138.5 225.6
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Odd Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rativital Mean FI Cell Inflow Velume Cell Inflow Velume Cell Inflow Conc Treated Outflow Velume	sec/yr - - days - km2 cm/yr cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 3.02 142.9 140.9 77.2 10694 138.5 90.6 7793	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 1.91 142.9 140.9 39.6 5484 138.5 40.9 3516	20.29 06/13/05 01/01/65 01/01/65 12/31/95 12/31/95 11322 3 Outflow none Base 5.85 142.9 140.9 90.6 7793 86.0 106.7 1809	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 2.91 142.9 140.9 40.9 3516 85.9 42.2 686	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 81.2 138.5 80.0 7774	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 80.0 7774 97.2 76.8 1120	7	8	9	10	11	12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5 225.6 3614
Execution Time Run Date Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Downstream Cell Label Network Simulation Name Sundaro Type Sundaro Type Sundaro Type Cell Inflow Long Cell Inflow Lond Cell Inflow Lond Cell Inflow Lond Treated Outflow Lond Treated Outflow Lond	sec/yr - - days - - cm/yr cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 3.02 142.9 140.9 77.2 10694 138.5 90.6 77793 86.0	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 none Base 1.91 142.9 140.9 39.6 5484 138.5 40.9 3516 85.9	20.29 06/13/05 01/01/165 01/01/165 12/31/95 11322 11322 0utflow none Base 5.85 142.9 140.9 90.6 7793 86.0 106.7 1809 17.0	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 2.91 142.9 140.9 3516 85.9 42.2 686 16.3	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 81.2 11242 138.5 80.0 77774 97.2	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/322 5B Outflow none Base 9.28 142.9 140.9 80.0 77774 97.2 76.8 1120 14.6	7	8	9	10	11	12	23.90 06/13/05 01/01/65 12/31/95 11/322 Total Base 25.24 142.9 140.9 197.9 27419 138.5 225.6 3614 16.0
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Duration Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Load Cell Inflow Canc Upper Confidence Limit	sec/yr - - days - - km2 cm/yr cm/yr hm3/yr kg/yr ppb hm3/yr kg/yr ppb	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base 3.02 142.9 140.9 77.2 10694 138.5 90.6 7793 86.0 #W/A	18.74 06/13/05 01/01/65 01/01/65 12/31/95 11322 2 4 none Base 1.91 142.9 140.9 39.6 5484 138.5 40.9 3516	20.29 06/13/05 01/01/65 01/01/65 12/31/95 11322 3 Outflow none Base 5.85 142.9 140.9 90.6 7793 86.0 106.7 1809 17.0 1809	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 Outflow none Base 2.91 140.9 40.9 3516 85.9 40.9 3516 85.9 42.2 686 16.3 #N/A	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11322 5A 5B none Base 2.27 142.9 140.9 81.2 11242 138.5 80.0 7774 97.2 #N/A	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 5B Outflow none Base 9.28 142.9 140.9 80.0 7774 97.2 76.8 1120	7	8	9	10	11	12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total - none Base 25.24 142.9 140.9 197.9 27419 138.5 225.6 3614
Execution Time Run Date Starting Date for Output Ending Date Output Duration Output Duration Output Duration Output Duration Output Duration Network Simulation Name Simulation Type Surface Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Canc Upper Confidence Limit Lower Confidence Limit Total Outflow Volume + Bypess	sec/yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/31/95 11322 1 3 none Base Base 3.02 140.9 77.2 10694 138.5 90.6 7793 86.0 #N/A #N/A 90.6	18.74 06/13/05 01/01/65 01/01/65 12/31/95 12/31/	20.29 06(13)05 01/01/65 12/31/95 11322 3 Outflow none Base 5.85 142.9 90.6 7793 86.0 106.7 1809 17.0 #N/A #N/A	22.00 06/13/05 01/01/65 01/01/65 12/31/95 12/31/	22.94 06/13/05 01/01/65 12/31/95 12/31/95 12/31/95 13/32 5A 5B none Base 2.27 140.9 81.2 11242 11242 11242 138.5 80.0 7774 #N/A #N/A 80.0	23.90 06/13/05 01/01/65 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 5 8 0.01 7 7 8 8 0.0 7 7.2 8 0.0 7 7.2 7 6.8 1120 14.6 #NVA #NVA #NVA 7 7.6.8	7	8	9	10	11	12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11322 Total Base Base 25.24 142.9 140.9 147.9 27419 138.5 225.6 3614 16.0 9 1%/A #N/A
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Cell Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainfal Mean Rainfal Gell Inflow Load Cell Inflow Volume Cell Inflow Conc Treated Outflow Volume Treated Outflow Volume Treated Outflow Volume Treated FVM Outflow Conc Upper Conflome Limit Total Outflow Volume + Dynass	sec/yr - - days - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 12/31/95 113/25 111	18.74 06/13/05 07/07/85 07/07/85 17/21/165 17/21/165 17/21/165 17/21/165 17/21/2 2 4 none Base 1.91 142.9 140.9 39.6 5484 138.5 5484 138.5 559 #tWA 3516	20.29 06(13)05 01/01/65 01/01/65 11/32/2 3 0.000 000 000 000 000 000 000 000 000	22.00 06/13/05 07/07/65 07/07/65 17/37/95 11/322 4 0.00 07/06 07/07 07/07 07/07 07/07 07/07 07/07 07/07 07/07 07/07 07/07 07/07 07/07 07/07 07/07 07/07/05 07/05 0000000000	22.94 06/13/05 07/01/65 07/01/65 11/32/21/95 11/32/2 5A 5B none Base 2.27 14/2.9 14/0.9 81.2 11/242 11/27 17/77 17/77 17/77 17/77 17/777 17/777 17/7777 17/7777777 17/77777777	23.90 06/13/05 07/07/85 07/07/85 12/31/95 11/32/2 58 Outflow none Base 9.28 9.28 142.9 140.9 7774 9774 97774 97774 97774 97774 97774 97774 1120 1145 1120	7	8	9	10	11	12	23.90 061/30/6 01/01/65 01/01/65 12/31/95 11/322 Total asse 25.24 142.9 140.9 147.9 27/419 138.5 265.6 3614 18.0 #N/A #N/A 225.6
Execution Time Run Date Starting Date for Output Ending Date Marking Date for Output Ending Date Output Date Date Date Date Starting Date Date Date Starting Date Call Inflow Veluen Call Inflow Veluen Treasted Outflow Load Treasted FVM Outflow Conc Upper Confidence Limit Lower Confidence Limit Lower Confidence Limit Call Outflow Conc Upper Confidence Limit Date Date Veluen Veluen Total Outflow Veluen + Spass Total Outflow Veluen + Spass	sec/yr - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/31/95 11/32/95 11/	18.74 06/13/05 07/01/65 07/01/65 11/32/2 2 4 none Base 1.91 142.9 140.9 30.6 5484 40.9 3516 85.9 40.9 3516 85.9	20.29 06(13)05 01/01/65 01/01/65 11/321/165 11/322 3 Outflow none Base 5.85 142.9 90.6 7793 86.0 106.7 1809 17.0 4809 17.0 1809 17.0 1809 17.0 1809 17.0 1809 17.0 1809 17.0 1809 17.0 1809 17.0 1905 17.0 1905 17.0 1905 17.0 1905 1	22.00 G6(13)05 O1/01/65 O1/01/65 11/322 4 Outflow none Base 2.91 142.9 40.9 3616 85.9 42.2 666 16.3 #N/A #V/A	22.94 G6(13)05 O1/01/65 O1/01/65 11/322 5A 5B none Base 2.27 142.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/242.9 81.2 11/24.9 81.2 11/24.9 81.2 11/24.9 81.2 11/242.9 80.0 777.4 77.4 77.	23.90 G613:05 O1:01165 O1:01165 11322 58 Outflow none Base 9.28 142.9 140.9 80.0 7774 97.2 76.8 1120 14.6 #N/A #N/A	7	8	9	10	11	12	23.90 06/13/05 01/01/65 01/01/65 11/322 Total - none Base 25.24 142.9 140.9 140.9 143.5 225.6 3614 16.0 #N/A #N/A 225.6 28519.6 28519.6
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Cell Label Dewnski Simulation Name Simulation Type Surface Area Mean Ratinfall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Conc Uraeted Chuflow Load Treated Chuflow Load Troat Quflow Load + Spass Total Chuflow Load + Spass Total Chuflow Conc	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/21/95 12/21/95 13/22 10/05 14/2.9 1	16.74 06/13/05 07/01/65 10/01/65 12/31/95 11/32/31/95 11/32/31/95 11/32/31/95 11/32/31/95 11/32/31/95 12/3	20.29 20.29 06/13/05 01/01/65 12/21/95 11322 11322 0.utflow Passe 5.85 142.9 90.6 7793 86.0 106.7 1809 17.0 #NA 1809 17.0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	22.00 06/13/05 01/01/n65 01/01/n65 12/21/n55 11322 11322 2.91 1142.9 140.9 3516 85.9 42.2 686 16.3 #N/A #N/A #N/A 16.3 #N/A	22.94 06(13:05 01(01/n65 01(01/n65 12(31)9	23.90 06/13/05 01/01/85 01/01/85 12/01/85 12/01/85 12/01/85 113/22 5 8 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0- 0-	7	8	9	10		12	23.90 06/13/05 01/01/65 01/01/65 11/322 Total - none Base 25.24 142.9 140.9 197.9 27419 27419 27419 27419 27419 27419 27419 245.2 140.9 197.9 27419 245.2 140.9 197.9 27419 245.2 140.9 197.9 245.1 255.6 255.1 25
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Output Date Date Date Date Simulation Name Simulation Name Simulation Name Simulation Name Simulation Name Mean Raritall Mean Raritall Mean Raritall Gell Inflow Lead Cell Inflow Conc Cell Inflow Conc Upper Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Date Duffow Load Treated Outflow Load Spass Load Bypass Load Maximum Inflow	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/21/05 11322 1 3 none Base Base Base Base Base Base 3.02 14/2.9 14/0.9 14/2.9 14/0.9 14/2.9	18.74 06/13/05 01/01/85 01/01/85 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 12/31/95 38.6 9 40.0 9 85.9 85.9 85.9 0 0 0.0 0.62	20.29 20.49 206/13/05 206/13/05 2010/165 2010/165 2010/165 2010/165 2010/06	22.00 06/13/05 01/01/t65 01/01/t65 01/01/t65 11/01	22.94 06/13/05 01/01/45 01/01/45 51/01/65 11/02/65 54 55 58 58 58 58 58 58 58 58 58	22.90 06/13/05 01/01/065 01/01/065 12/31/05 11/32/2 5B 0-utflow none Base 9.28 9.28 9.28 9.28 9.28 9.28 9.28 9.28	7	8	9	10		12	23.90 06/13/05 01/01/65 12/31/95 11/322 Total 98 140.3 142.9 14.9 142.9
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Cell Label Downstream Cell Label Downstream Cell Downstream Cell Sinulation Type Sinuface Area Sinulation Type Sinuface Area Mean R Tam Cell Inflow Volume Cell Inflow Volume Cell Inflow Conc Treated Outflow Volume Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Volume Treated Outflow Volume Treated Outflow Volume Treated Outflow Conc Upper Confidence Limit Lower Confidence Limit Total Toulflow Conc Bypass Load Bypass Load Maximum Inflow	sec)rr - - - - - - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/21/95 13/21 1 3 none Base 3.02 14/2.9 14/0.9 77.2 10/63/ 14/0.9 77/2 10/63/ 14/0.9 77/93 86.0 0 0 0.0 0.1.22 1.31	18.74 06/13/05 01/01/65 01/01/65 12/21/95 11/22/195 11/22/195 11/22/24 4 none Base Base Base 1.91 142.9 140.9 38.6 5484 138.5 9 3516 85.9 0 3516 85.9 0 0.0 0.0 682	20.29 20.29 06/13/05 01/01/n65 12/21/95 11322 11322 11322 11322 11322 1142.9 90.6 7793 86.0 106.7 1809 17.0 #N/A #N/A 1809 17.0 0 0.0 17.0 1809 17.0 1809 17.0 1809 17.0 1809 17.0 1809 17.0 1809 17.0 1809 17.0 17.0 1809 17.0 17.0 1809 17.0 17.0 17.0 1809 17.0 17.0 17.0 17.0 1809 17.0 17.0 17.0 17.0 1809 17.0	22.00 06/13/05 01/01/n65 01/01/n65 11/21/n55 11/322 11/322 11/322 11/322 11/322 11/322 11/322 11/322 11/322 11/322 11/322 11/322 11/322 11/321 11/322 11/32	22.94 06(13:05 01(01)/65 01(01)/65 12(21)/95 12(31	23.90 06/13/05 01/01/85 01/01/85 10/01/85 12/31/95 11/32/2 5B 0-utflow Base 9.28 9.28 9.28 9.28 142.9 140.9 80.0 7774 97.2 76.8 1120 14.6 #N/A #N/A #N/A #N/A 1120 14.6 114.6 11	7	8	9	10		12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total 
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Output Duration Downstream Cell Label Network Sinulation Name Simulation Type Surface Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Load Treasted Outflow Load Depre Confidence Limit Lower Confidence Limit Lower Confidence Limit Ruber Confidence Limit State Load	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/21/05 12/21/05 13/21 1 3 0 0 140.9 77.2 10694 138.5 90.6 7793 86.0 0 0,0 0 0,0 0 0,0 0 0,0 1.22 1.31 2900	18,74 06/13/05 01/01/85 01/01/85 12/21/95 11/322 4 none Base 1,91 142.9 4 40.9 38,6 5848 516 3516 3516 85,9 3516 3516 3516 3516 3516 3516 3516 3516	20.29 20.29 206/13/05 10/10/165 10/20/165 12/21/05 11/322 3 3 0/ufflow none Base 5.85 142.9 90.6 77/93 86.0 77/93 86.0 77/93 86.0 77/93 86.0 77/93 86.0 77/93 180/9 190/8 100/8	22.00 06/13/05 01/01/n65 01/01/n65 12/31/n55 11/322 4 2.91 11/322 4 2.91 14/2.9 35/16 85.9 2.91 14/2.9 40.9 36/16 85.9 42.2 686 5 16.3 6 6 6 8 5 6 6 6 6 6 0 0 0 0.0 6 88 9 0 0 0.0 77 2831	22.94 06/13/05 01/01/065 01/01/065 12/31/05 11/31/25 5A 5B none Base 2.27 11/322 14/2.9 14/0.9 81.2 11/324 13/8.5 80.0 7774 81.2 972 0 0.0 0.1 28 1.3 84 85 80.0 1.2 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	23.90 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11/322 58 0utflow none Base 9.28 11/22 11/22 11/22 11/22 11/20	7	8	9	10		12	23.90 06/13/06 01/01/65 12/31/95 11/32/
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Output Duration Output Duration Output Duration Output Duration Sinulation Type Surface Area Mean Rainfall Mean Cell Inflow Canc Cell Inflow Canc Cell Inflow Cand Cell Inflow Cand Cell Inflow Cand Cell Inflow Cand Treasted Outflow Cand Treasted Outflow Land Treasted Outflow Land Treasted Outflow Land Treasted Outflow Cand Bypass Land Expers Surface Area Surface Are	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 12/21/05 12/21/05 13/21 1 3 00 14/2.9	18,74 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 2 4 4 11/32/2 2 4 4 4 138.5 3.8 5 848.4 3.8.5 3.8.6 5.9 848.5 3.8.5 5.9 85.9 85.9 85.9 85.9 85.9 85.9 8	20.29 20.29 20(13)05 20(10)165 20(10)165 12(3)195 11322 0 20(10) 20(1	22.00 06/13/05 01/01/n65 01/01/n65 12/31/n55 11/322 4 2.91 11/322 4 2.91 14/2.9 35/16 85.9 2.91 14/2.9 40.9 35/16 85.9 42.2 686 16.3 0 0.0 0.0 88.9 0 77 2831 2821 80%	22.94 06(13:05) 01(01/06) 01(01/06) 12(31/05) 12(3	22.90 06/13/05 01/01/05 01/01/05 12/31/05 113/22 0 00 00 00 00 00 00 00 00 0	7	8	9	10		12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total 
Execution Time Rxun Date Starting Date for Simulation Starting Date for Output Ending Date Control Ending End	sec)r - - - - - - - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/322 1 3 000 142/31/95 3.02 142/3 1 3.02 142/3 1 3.02 142/3 1 009/4 140/3 9 0.6 9 0.6 9 0.6 9 0.6 9 0.6 9 0.6 9 0.6 13/3 19/5 1 140/4 9 0.6 13/3 19/5 1 140/4 9 0.6 140/6 140/6 1 140/6 140/6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18,74 06/13/05 01/01/65 12/21/05 12/21/05 12/21/05 12/21/05 12/21/05 2 4 4 000 80,9 30,6 548,4 40,9 30,6 548,4 40,9 3516 85,9 40,0 3516 85,9 40,0 3516 85,9 40,0 3516 85,9 40,0 3516 85,9 40,0 3516 85,9 40,0 3516 548,4 40,0 3516 548,4 40,0 3516 548,4 40,0 3516 548,4 40,0 3516 548,4 40,0 3516 548,4 40,0 3516 548,4 35,6 36,7 36,7 36,7 36,7 36,7 36,7 36,7 36	20.29 20.29 206/13/05 20/01/85 20/01/85 12/21/95 11322 3 3 0 20/01/00 11322 3 3 0 20/01/00 11322 3 3 0 0 11322 3 3 0 0 0 10/01/85 11322 3 3 0 0 0 11322 11322 11322 3 3 0 0 0 11322 1132 1132 1132 1132 1132 1132 1132 1132 1132 1132 1132 1132 1132 1132 1132 1132 1140 106.7 11509 11.00	22.00 06/13/05 01/01/n65 01/01/n65 12/31/n65 12/31/n65 11/322 4 2 0 01/01/n65 01/01/n65 12/31/n65 11/322 4 2 0 0 0 0 0 0 0 0 0 0 0 0 0	22.94 06/13/05 01/01/n65 12/31	22.90 06/13/05 01/01/85 01/01/85 12/31/95 11/322 58 0-utflow none Base 9.28 9.23 9.23 9.23 9.23 9.23 9.23 9.23 9.23	7	8	9	10		12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total - - - - - - - - - - - - - - - - - - -
Execution Time Rxnn Date Starting Date for Sinulation Starting Date for Output Ending Date Output Ending Date Output Ending Date Output	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/322 1 3 0 Base 3.02 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 140.9 142.9 0.6 0.0 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0 0	18,74 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 2 4 4 11/32/2 2 4 4 4 138.5 3.8 5 848.4 3.8.5 3.8.6 5.9 848.5 3.8.5 5.9 85.9 85.9 85.9 85.9 85.9 85.9 8	20.29 20.29 20(13)05 20(10)165 20(10)165 12(3)195 11322 0 20(10) 20(1	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 01132 0113	22.94 06(13:05) 01(01/06) 01(01/06) 12(31/05) 12(3	22.90 06/13/05 01/01/05 01/01/05 12/31/05 113/22 0 00 00 00 00 00 00 00 00 0	7	8	9			12	23.90 06/13/05 01/01/65 12/31/95 11/31/22 Total - none Base 25.24 14(0,9) 14(1
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Cell Label Output Duration Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outflow Load Cell Inflow Load Cell Inflow Load Cell Inflow Conc Treated Outflow Load Continence Limit Lower Contidence Limit Date Generatic Medication Surface Load Reduction Laad Trapped Insolments Overal Load Reduction Laad Trapped Insolments Overal Load Reduction Laad Trapped Generatic Mean Control Cell Daty Generatic Mean Call Control Mean Control Cell Daty Generatic Mean Daty Generatic Mean Control Cell Daty Generatic Mean Cell Cell Daty Generatic Mean Cell Cell Cell Cell Cell Daty Generatic Mean Cell Cell Cell Daty Generatic Mean Cell Cell Cell Cell Cell Cell Cell Cel	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/322 1 3 0000 Base 3.02 142.9 8 8.5 9.02 142.9 140.0 142.9 142.9 140.0 142.9 142.9 143.5 198.5 198.5 198.5 198.5 198.5 198.5 198.5 198.5 198.5 199.5 19	18,74 06/13/05 01/01/85 01/01/85 12/31/95 11/322 2 4 4 none none none none none none none	20.29 20.29 20(13)05 20(10)165 20(10)165 12/31/95 11322 3 3 20 20 20 20 20 20 20 20 20 20	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 2.91 142.9 40.9 3516 85.9 42.2 666 16.3 42.2 666 16.3 42.2 666 16.3 42.2 666 16.3 16.3 16.3 16.3 16.3 16.3 16.3	22.94 06/13/05 01/01/65 01/01/65 12/31/05 1132/2 5A 98 98 98 98 98 2.27 142.9 1132/2 1322 2.27 142.9 140.9 81.2 11242 138.5 80.0 81.2 11242 138.5 80.0 80.0 7774 97.2 81.2 11242 138.5 80.0 80.0 7774 97.2 81.2 11242 138.5 80.0 80.0 80.0 80.0 80.0 80.0 80.0 8	22.90 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11322 58 0.04 00 00 00 11322 58 0.28 9.28 9.28 9.28 9.28 9.28 9.28 9.28 9	7	8	9			12	23.90 06/13/05 01/01/65 12/31/95 11/32/2 Total - - - - - - - - - - - - - - - - - - -
Execution Time Rxun Date Starting Date for Simulation Starting Date for Output Ending Date Output Date Output Date Output Date Output Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Raintal Mean ET Cell Inflow Volume Cell Inflow Conc Center Center Center Cell Inflow Conc Center Center Cell Inflow Conc Center Center Cell Inflow Conc Center Cent	sec/r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/322 1 2/31/95 11/322 1 3 0 Base Base Base Base Base Base Base Base	18.74 06/13/05 01/01/85 01/01/85 12/31/85 11/32/2 2 2 4 none Base 1.91 142.9 142.9 142.9 142.9 142.9 142.9 33.6 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 85.9 #NA 40.9 3516 85.9 85.9 #NA 40.9 3516 85.9 85.9 85.9 85.9 85.9 85.9 85.9 85.9	20.29 06/13/05 01/01/R5 01/01/R5 12/31/85 113:22 0 00 0 0 0 0 0 0 0 0 0 0 0	22.00 06/13/05 01/01/n65 01/01/n65 12/31/n55 113/22 0113/22	22.94 06/13/05 01/01/85 01/01/85 01/01/85 11/31/85 11/32/3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.90 06/13/05 01/01/065 01/01/065 12/31/05 113:22 0 0 0 0 0 0 0 0 0 0 0 0 0	7	8	9			12	23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total 13/22 Total 14/2.9 13/2.5 23/65 23/65 24/05
Execution Time Run Date Starting Date for Sinulation Starting Date for Output Ending Date Output Diration Cell Label Output Diration Cell Label Detevork Simulation Name Simulation Type Surface Area Mean Ranfall Mean ET Cell Inflow Volume Cell Inflow Volume Cell Inflow Conc Treated Outflow Load Cell Inflow Conc Upper Contidence Limit Date Outflow Conc Surface Area Name Ranfall Mean Cell Label Detext Simulation Cell Contidence Limit Date Contidence Limit Date Outflow Conc Surface Load Reduction Load Trapeder In Sedments Overal Load Reduction Load Trapeder In Sedments Overal Load Reduction Load Trapeder In Sedments Overal Load Reduction Load Trapeder Load Reduction Control Cont Dever Contidence Limit Date Control Reduction Load Controle Limit Date Controlence Limit Date Controlence Limit Controlence Limit Control Reduction Load Controlence Limit Date Controlence Limit Controlence Limit Controlence Limit Controlence Limit Control Reduction Load Controlence Limit Controlence Controlence Limit Controlence Controlence Limit Controlence Controlence Limit Controlence Controlence Limit	sec)r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/322 12/31/85 11/32 13 1 3 00ne Base 3.02 14/2.9 8 8.0 90.6 97/93 8 80.0 14/2.9 90.6 97/93 8 80.0 14/2.9 90.6 97/93 8 80.0 14/2.9 90.6 12/2 14/2.9 90.0 12/2 14/2 90.0 12/2 14/2 90.0 12/2 14/2 90.0 12/2 14/2 19/2 14/2 19/2 14/2 19/2 14/2 19/2 14/2 19/2 14/2 19/2 14/2 19/2 14/2 19/2 14/2 19/2 14/2 19/2 14/2 14/2 19/2 14/2 14/2 19/2 14/2 19/2 14/2 19/2 14/2 14/2 19/2 14/2 14/2 14/2 14/2 14/2 14/2 14/2 14	18,74 06/13/05 01/01/85 01/01/85 12/31/95 11/322 2 2 4 6 8 9 191 142.9 140.9 30.6 5484 40.9 30.6 5484 40.9 36.16 85.9 3576 85.9 3576 8576 8576 8576 8576 8576 8576 8576 8	20.29 20.29 20(13)05 20(10)165 20(10)165 12/31/95 11322 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0	22.00 06/13/05 01/01/65 01/01/65 01/01/65 12/31/95 11/322 4 2.91 142.9 142.9 142.9 142.9 142.9 140.9 3516 85.9 42.2 666 16.3 16.3 16.6 8 5.9 42.2 666 16.3 16.6 8 5.9 42.2 6 665 16.3 16.0 6 8 5.9 42.2 6 665 16.3 16.0 6 8 5.9 42.2 6 665 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11/322 5A 5B 7000 227 142.9 11/322 11/322 11/322 11/322 11/322 11/322 11/242 11	22.90 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11322 58 028 11322 58 9.28 9.28 9.28 9.28 9.28 9.28 9.28 9.2	7	8	9				23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total - - - - - - - - - - - - - - - - - - -
Execution Time Rxun Date Starting Date for Simulation Starting Date for Output Ending Date Output Date Output Date Output Date Output Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Raintal Mean ET Cell Inflow Volume Cell Inflow Conc Center Center Center Cell Inflow Conc Center Center Cell Inflow Conc Center Center Cell Inflow Conc Center Cent	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/322 1 2/31/95 11/322 1 3 0 Base Base Base Base Base Base Base Base	18.74 06/13/05 01/01/85 01/01/85 12/31/85 11/32/2 2 2 4 none Base 1.91 142.9 142.9 142.9 142.9 142.9 142.9 33.6 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 #NA 40.9 3516 85.9 7 85.0 7 85.0 7 85.0 7 85.0 7 85.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0	20.29 06/13/05 01/01/R5 01/01/R5 12/31/85 113:22 0.00 113:22 0.00 113:22 0.00 113:22 0.00 113:22 0.00 113:22 0.00 113:22 0.00 12:03 0.00 12:03 0.00 12:03 0.00 12:03 0.00 12:03 0.00 13:05 14:03 0.00 14:03 0.00 14:03 0.00 14:03 0.00 14:03 0.00 14:03 0.00 14:03 0.00 14:03 0.00 14:05 14:	22.00 06/13/05 01/01/n65 01/01/n65 12/31/n55 113/22 0113/22	22.94 06/13/05 01/01/85 01/01/85 01/01/85 11/31/85 11/32/3 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.90 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11322 58 9.28 9.28 9.29 9.29 9.29 9.29 9.29 9.2	7	8	9				23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total 13/22 Total 14/2.9 13/2.5 23/65 23/65 24/05
Execution Time Rxun Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Output Duration Downstream Cell Label Network Sinulation Name Sinulation Type Surface Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Load Treated Outflow Volume Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated FWM Outflow Conc Upper Confidence Limit Lower Confidence Limit Upper Confidence Limit Upper Confidence Limit Daty Geometric Maan Overali Load Reduction Laad Trapped in Sediments Overall Load Reduction Lawer Confidence Limit Lower Confidence Limit Low	sec)r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/322 1 21/31/95 11/322 1 3 3 8 Base Base Base Base Base Base Base Base	18,74 06/13/05 01/01/85 01/01/85 12/31/85 11/32/2 2 2 4 4 none Base 1.91 142.9 142.9 142.9 142.9 142.9 38.6 38.6 38.6 38.6 38.6 38.6 38.6 38.6	20.29 06/13/05 01/01/R5 01/01/R5 12/31/95 113:22 00:00 00:00 00:00 00:00 00:00 13:20 00:00 00:00 13:20 00:00 13:20 00:00 140.9 00:00 140.9 170.0 170	22.00 06/13/05 01/01/R5 01/01/R5 12/31/95 11/32/2 04/04 04/04 88.2 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40.9	22.94 06/13/05 01/01/85 01/01/85 12/31/85 113/22 55 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.90 06/13/05 01/01/85 01/01/85 12/31/95 11322 8 8 11322 8 8 142.9 11322 8 8 9.28 142.9 1	7	8	9				23.90 06/13/05 01/01/65 02/31/95 11/31/22 Total 11/32/2 Total 11/32/2 Total 11/32/2 Total 11/32/2 Total 11/32/2 11/32 11/32/2
Execution Time Rxnn Date Starting Date for Simulation Starting Date for Output Ending Date Control Ending Ending Control Ending Ending Control Ending En	sec)r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/31/85 11/32/31/85 11/32/31/85 3.02 14/2.9 14/0.9 77/2 10/96 9.0.6 77/93 8.0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	18,74 06/13/05 01/01/65 01/01/65 12/31/05 12/31/05 11/32/2 2 4 mbase 13/1 13/2 2 4 mbase 13/1 140,9 30.6 548/4 13/8,5 40.9 30.6 548/4 40.9 30.6 548/4 30.6 558/2 30.6 558/2 30.6 558/2 30.6 558/2 30.6 558/2 30.6 558/2 30.6 558/2 30.6 558/2 30.6 558/2 30.6 558/2 30.6 557/2 557/2 57/2	20.29 20.29 206/13/05 20/01/65 20/01/65 12/21/05 11/322 3 3 0 20/01/00 0 11/322 3 3 0 0 0 11/322 3 8 0.0 11/02 11/322 3 8 0.0 11/02 11/322 3 8 0.0 11/02 11/322 3 8 0.0 11/02 11/322 3 8 0.0 11/02 11/322 11/322 11/322 11/322 11/32	22.00 06/13/05 01/01/65 01/01/65 12/31/05 11/322 4 0-0tflow nonses Base 11/322 4 2-31 140.9 40.9 3516 85.9 42.2 686 16.3 140.9 3516 85.9 42.2 686 16.3 140.9 3516 85.9 42.2 686 16.3 140.9 3516 16.3 140.9 42.2 686 16.3 140.9 3516 16.3 140.9 42.2 686 16.3 140.4 16.3 140.9 42.2 686 16.3 140.4 16.4 16.3 140.4 16.5 16.3 140.4 16.5 16.3 140.4 16.5 16.5 16.5 16.5 16.5 16.5 16.5 16.5	22.94 06/13/05 01/01/65 01/01/65 12/31/95 11/322 5A 5B 7000 81.2 11/322 5A 5B 7000 81.2 11/322 11/322 11/322 11/322 11/322 11/322 11/24	22.90 06/13/05 01/01/85 01/01/85 01/01/85 12/31/95 11322 58 9.28 9.28 9.29 9.29 9.29 9.29 9.29 9.2	7	8	9				23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total - - - - - - - - - - - - - - - - - - -
Execution Time Rxun Date Starting Date for Sinulation Starting Date for Output Ending Date Output Duration Output Duration Downstream Cell Label Network Sinulation Name Sinulation Type Surface Area Mean Rainfall Mean ET Cell Inflow Volume Cell Inflow Load Treated Outflow Volume Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated Outflow Load Treated FWM Outflow Conc Upper Confidence Limit Lower Confidence Limit Upper Confidence Limit Upper Confidence Limit Daty Geometric Maan Overali Load Reduction Laad Trapped in Sediments Overall Load Reduction Lawer Confidence Limit Lower Confidence Limit Low	sec)r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/2 1 3 3 0000 8 30/2 14/2 9 8 8 3 02/2 14/2 9 8 8 3 02/2 14/2 9 8 8 3 02/2 14/2 9 8 8 5 9 8 6 7 79/3 9 8 6 7 79/3 9 8 6 7 79/3 8 8 9 9 8 5 9 9 8 6 7 79/3 9 8 8 5 9 9 8 6 7 79/3 1 8 8 5 9 9 8 6 7 79/3 1 8 8 5 9 9 8 6 7 7 9 8 8 5 9 8 8 5 9 9 8 6 7 7 9 8 8 5 9 8 5 9 8 5 9 8 8 5 9 8 9 8	18,74 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 2 4 4 1382 2 4 4 0.0 11/32/2 2 4 4 0.0 11/32/2 2 4 4 0.0 11/32/2 2 4 4 0.0 11/32/2 3.0 5 484.4 40.0 3.0 5 484.4 40.0 191 140.9 3.0 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.5 40.0 3.0 5 5 484.5 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.5 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.4 40.0 3.0 5 5 484.5 5 3.0 5 5 4 8.5 5 9 0 0 0 0 0.0 2.0 5 1 9 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	20.29 06/13/05 01/01/R5 01/01/R5 12/31/95 11322 0 0 0 0 0 0 0 0 0 0 0 0 0	22.00 06/13/05 01/01/R5 01/01/R5 12/31/95 11/32/2 0 4 0 40.9 40.9 40.9 40.9 40.9 40.9 40.	22.94 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 85 80 80 81.2 11/32/2 80.0 81.2 11/32/2 138.5 80.0 81.2 11/24/2 138.5 80.0 7774 981.2 11/24/2 138.5 80.0 7774 97.2 0 0 0.0 7774 97.7 0 0 0.0 7774 97.7 0 0 0.0 7774 97.7 0 0 0.0 7774 97.7 81.2 11/24/2 11/2	22.90 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 8 8 11/32 8 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 11	7	8	9				23.90 06/13/05 01/01/65 02/31/95 11/31/22 Total 11/32/2 Total 11/32/2 Total 11/32/2 Total 11/32/2 Total 11/32/2 11/32 11/32/2
Execution Time Rxnn Date Starting Date for Simulation Starting Date for Output Ending Date Control Ending Ending Control Ending Ending Control Ending En	sec)r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 01/01/85 11/322 1 3 3 00ne Base 3.02 142.9 188.5 9.02 142.9 188.5 188.5 9.02 142.9 188.5 189.5 199.5 199.	18,74 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 2 4 4 4 138.5 40,0 5484 138.5 40,0 5484 138.5 5484 140.5 5585 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.29 06/13/05 01/01/065 01/01/065 12/31/05 11322 3 000 000 000 000 000 000 00	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 2.91 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 143.5 16 8.5 9 2.91 142.9 140.9 3516 8.5 9 2.91 142.9 140.9 3516 8.5 9 4.2 2.8 6 8.5 9 4.2 2.8 15 3.5 16 10 10 10 10 10 10 10 10 10 10 10 10 10	22.94 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 85 80 80 81.2 11/32/2 80.0 81.2 11/32/2 138.5 80.0 81.2 11/24/2 138.5 80.0 7774 981.2 11/24/2 138.5 80.0 7774 97.2 0 0 0.0 7774 97.7 0 0 0.0 7774 97.7 0 0 0.0 7774 97.7 0 0 0.0 7774 97.7 81.2 11/24/2 11/2	22.90 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 8 8 11/32 8 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 11	7	8	9				23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/27 Total - - - - - - - - - - - - - - - - - - -
Execution Time Rxnn Date Starting Date for Simulation Starting Date for Output Ending Date Control Ending Ending Control Ending Ending Control Ending En	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/22/19 1 2/21/195 11/22/1 3 3 0 8 3 02 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 14/2.9 17/2.3 8 0.0 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	18,74 06/13/05 07/01/65 07/01/65 07/01/65 12/31/05 12/31/05 11/32/2 2 2 4 none Base 1.91 142.9 1442.9 1442.9 38,6 440.9 38,6 440.9 38,6 440.9 38,6 440.9 38,6 40.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.29 06/13/05 01/01/85 01/01/85 12/31/85 113:22 0 0 0 0 0 0 0 0 0 0 0 0 0	22.00 06/13/05 01/01/65 01/01/65 12/31/05 11/32/2 01/01/65 12/31/05 11/32/2 01/01/65 12/31/05 11/32/2 01/01/65 0.01 0.0 0.0 0.0 0.0 0.0 0.0 0.	22.94 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 85 80 80 81.2 11/32/2 80.0 81.2 11/32/2 138.5 80.0 81.2 11/24/2 138.5 80.0 7774 981.2 11/24/2 138.5 80.0 7774 97.2 0 0 0.0 7774 97.7 0 0 0.0 7774 97.7 0 0 0.0 7774 97.7 0 0 0.0 7774 97.7 81.2 11/24/2 11/2	22.90 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 8 8 11/32 8 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 11	7	8	9				23.90 06/13/05 01/01/65 12/31/95 11/31/22 Total - none 25.24 142.9 140.9 149.9 140.9 149.9 140.9 149.9 140.9 149.9 140.9 149.9 140.9 149.9 140.9 149.9 140.9 149.9 140.9 149.9 140.9 149.9
Execution Time Rxnn Date Starting Date for Simulation Starting Date for Output Ending Date Control Ending Ending Control Ending Ending Control Ending En	sec)r - - - - - - - - - - - - -	06/13/05 01/01/85 01/01/85 11/32/2 1 1 1 3 00/01 8 3 02/31/85 11/32 1 3 0 00/0 8 3 02 142.9 98.6 90.6 97.9 142.9 98.6 90.6 97.9 142.9 98.6 97.9 97.0 97.0 97.0 97.0 97.0 97.0 97.0	18,74 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 2 4 4 11322 2 4 4 138.5 1.91 142.9 140.9 33.6 548.4 138.5 40.9 33.6 548.4 138.5 40.9 33.6 548.4 40.9 33.6 548.4 34.0 33.6 548.4 34.0 33.6 548.4 34.0 33.6 548.4 34.0 35.6 548.4 34.0 35.6 35.6 35.6 35.6 35.6 35.6 35.6 35.6	20.29 20.29 20(13)05 20(10)165 20(10)165 12(3)195 11322 3 20 20 20 20 20 20 20 20 20 20	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11322 4 2.91 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 142.9 140.9 3516 85.9 42.2 2.5 163 3516 85.9 42.2 2.5 163 3516 85.9 42.2 2.5 163 3516 85.9 42.2 2.5 163 3516 85.9 42.2 2.5 163 3516 85.9 42.2 2.5 163 3516 85.9 42.2 2.5 17 2.5 2.5 17 2.5 17 2.5 17 2.5 2.5 17 2.5 2.5 17 2.5 2.5 2.5 17 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	22.94 06/13/05 01/01/85 01/01/85 12/31/85 1132/2 5A 98 98 98 90 81.2 1132/2 132/2 132/2 142.9 142.9 81.2 11242 138.5 80.0 81.2 11242 138.5 80.0 81.2 11242 138.5 80.0 80.0 80.0 80.0 80.0 80.0 80.0 8	22.90 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 8 8 11/32 8 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 11	7	8	9				23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/27 Total - - - - - - - - - - - - - - - - - - -
Execution Time Rxnn Date Starting Date for Simulation Starting Date for Output Ending Date Control Ending Ending Control Ending Ending Control Ending En	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/322 1 3 0 00 8 3 02 142.9 182 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18,74 06/13/05 07/01/65 07/01/65 07/01/65 12/31/05 12/31/05 11/32/2 2 2 4 none Base 1.91 142.9 1442.9 1442.9 38,6 440.9 38,6 440.9 38,6 440.9 38,6 440.9 38,6 40.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.29 06/13/05 01/01/85 01/01/85 12/31/85 113:22 00:01 00:01 113:22 00:01 00:01 113:22 00:01 114:20	22.00 06/13/05 01/01/65 01/01/65 12/31/95 113:22 04/13/05 113:22 04/04	22.94 06/13/05 01/01/85 01/01/85 12/31/85 1132/2 5A 98 98 98 90 81.2 1132/2 132/2 132/2 142.9 142.9 81.2 11242 138.5 80.0 81.2 11242 138.5 80.0 81.2 11242 138.5 80.0 80.0 80.0 80.0 80.0 80.0 80.0 8	22.90 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 8 8 11/32 8 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 11	7	8	9				23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total - - - - - - - - - - - - - - - - - - -
Execution Time Rxnn Date Starting Date for Simulation Starting Date for Output Ending Date Control Ending Ending Control Ending Ending Control Ending En	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/322 1 3 0 00 8 3 02 142.9 182 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18,74 06/13/05 01/01/85 01/01/85 11/31/85 11/32/185 11/322 2 3 4 4 none Base 1.91 142.9 142.9 142.9 142.9 142.9 38,6 548.5 1355 548.5 1355 548.5 1355 548.5 1355 548.5 1355 548.5 1355 548.5 1355 1355 1355 1355 1355 1355 1355 13	20.29 06/13/05 01/01/85 01/01/85 12/31/85 113:22 00:01 00:01 113:22 00:01 00:01 113:22 00:01 114:20	22.00 06/13/05 01/01/65 01/01/65 12/31/95 113:22 04/13/05 113:22 04/04	22.94 06/13/05 01/01/85 01/01/85 12/31/85 1132/2 5A 98 98 98 90 81.2 1132/2 132/2 132/2 142.9 142.9 81.2 11242 138.5 80.0 81.2 11242 138.5 80.0 81.2 11242 138.5 80.0 80.0 80.0 80.0 80.0 80.0 80.0 8	22.90 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 8 8 11/32 8 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 11	7	8	9				23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total 
Execution Time Run Date Starting Date for Simulation Starting Date for Output Ending Date Coll Label Downstream Cell Label Network Simulation Name Simulation Type Surface Area Mean Rainital Coll Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Volume Cell Inflow Conc Cell Inflow Conc Cell Inflow Conc Treated Outflow Volume Treated Outflow Conc Upper Confidence Limit Bypass Load Maximum Inflow Maximum Outflow Conce Endinese Limit Upper Confidence Limit Lower Confidence Limit Upper Confidence Limit Lower Confidence Limit Upper Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Lower Confidence Limit Prequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb Frequency Outflow Conc > 20 ppb	sec)r - - - - - - - - - - - - -	06/13/05 01/01/65 01/01/65 11/322 1 3 0 00 8 3 02 142.9 182 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	18,74 06/13/05 01/01/85 01/01/85 11/31/85 11/32/185 11/322 2 3 4 4 none Base 1.91 142.9 142.9 142.9 142.9 142.9 38,6 548.5 1355 548.5 1355 548.5 1355 548.5 1355 548.5 1355 548.5 1355 548.5 1355 1355 1355 1355 1355 1355 1355 13	20.29 06/13/05 01/01/85 01/01/85 12/31/85 113:22 00:01 00:01 113:22 00:01 00:01 113:22 00:01 114:20	22.00 06/13/05 01/01/65 01/01/65 12/31/95 11/32/31/95 11/32/2 04/04 04/04 88 12/31/95 11/32/2 04/04 04/04 88 12/31/95 11/32/31/95 11/32/31/95 11/32/31/95 11/32/31/95 11/32/31 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22.94 06/13/05 01/01/85 01/01/85 12/31/85 1132/2 5A 90 90 81.2 1132/2 132/2 5A 90 90 81.2 1132/2 12/2 1	22.90 06/13/05 01/01/85 01/01/85 12/31/95 11/32/2 8 8 11/32 8 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 8 11/32 11	7	8	9				23.90 06/13/05 01/01/65 01/01/65 12/31/95 11/32/2 Total 



C-6