

## **APPENDIX 2**

### **HYDRAULIC MODEL REPORTS REFER TO CSSP-FSR FOR APPENDIX**

## **APPENDIX 3**

### **STORM SEWER DESIGN CALCULATIONS REFER TO CSSP-FSR FOR APPENDIX**

## **APPENDIX 4**

### **INTERIM POND**

Disk Available Upon Request for Detailed Output

### **STORMWATER MANGEMENT**

**REFER TO CSSP-FSR FOR OTHER STORMWATER MANAGEMENT**



# URBANTECH®

## SWM DESIGN CALCULATIONS - POND HYRDO-0: Contributing Drainage Area and Land Use

Project Name: Macville Community  
Municipality: Town of Caledon  
Project No.: 15-458  
Date: 2023-05-11

Prepared by: J.P.O  
Checked by: S.H.

Inteirm Pond	From	To	Area [ha]	Runoff Coefficient	Imperviousness %IMP=100 X (C-0.2)/0.7	Imperviousness %IMP= (C-0.05)/0.009	Design Requirement		
							Conveyance	Quantity	Quality
Total Drainage Area (including Pond)			20.41	0.74	77.0	76.6	•	•	•
Total Drainage Area (Quality Control Only)			20.41	0.74	77.0	76.6			
Total Drainage Area (Quantity Control Only)			20.41	0.74	77.0	76.6			
Total Drainage Area to Pond			20.41	0.74	77.0	76.6	20.41	20.41	20.41



# URBANTECH<sup>®</sup>

## SWM POND DESIGN CALCULATION - POND SWMF-1 TARGET SUMMARY

**Project Name:** Macville Community  
**Municipality:** Town of Caledon  
**Project No.:** 15-458  
**Date:** 11-May-23

**Prepared by:** J.P.O  
**Checked by:** S.H.

### Interim Pond

#### Design Target

**Wet Pond** (Per MOE Stormwater Management Planning and Design Manual 2003, Table 3.2)

Impervious Level	Water Quality Storage Vol	Extended Detention	Permanent Pool
(%)	m <sup>3</sup> /ha	m <sup>3</sup> /ha	m <sup>3</sup> /ha
35%	140	40	100
55%	190	40	150
70%	225	40	185
85%	250	40	210
Interpolated Storage Requirement			
76.6%	236	40	196

	Area [ha]	IMP%
Total Contributing Area	20.41	77%
Quantity Control Only	20.41	77%
Quality Control Only	20.41	77%

### VO6 Model Results - Interm Pond

Project Name: Macville Community  
Municipality: Town of Caledon  
Project No.: 15-458  
Date: 2023-05-11

Prepared by: J.P.O  
Checked by: S.H

Pond Level	Elevation	Target Flows	Post Development Flows	Volume
			Pond	
		m <sup>3</sup> /s	m <sup>3</sup> /s	(m <sup>3</sup> )
ED	271.12	-	0.015	3,792
2	271.25	0.150	0.150	4,870
5	271.41	0.229	0.229	6,316
10	271.62	0.282	0.282	8,212
25	271.77	0.355	0.355	9,711
50	271.88	0.414	0.414	10,808
100	271.98	0.468	0.468	11,920
Regional	273.24	-	5.512	27,537
Maintenance Road	273.50	-	-	31,376

## **APPENDIX 5**

**DS CONSULTANTS GEOTECHNICAL  
AND HYDROGEOLOGICAL REPORTS  
REFER TO CSSP-FSR FOR APPENDIX**

## **APPENDIX 6**

### **WASTEWATER REFER TO CSSP-FSR FOR APPENDIX**



## **APPENDIX 7**

### **R.J. BURNSIDE & ASSOCIATES WATER MODELLING REFER TO CSSP-FSR FOR APPENDIX**